Tuesday, 25 June 2024

Mini Conferences (MC)
10:00 - 12:00 

**MC01** - European Brain Council: Prioritising Brain Health in Youth: Bringing Neuroscience to Society and Informing Policy

- Opening Address - Suzanne Dickson 10:00 - 10:00
- Keynote lectures: Brain development and transdiagnostic classification 10:00 - 10:00
- Session 1: Youth and caregiver priorities 10:00 - 10:00
- Session 2: Brain health clinical innovation in youth: Panel discussion 10:00 - 10:00
- Session 3: Time to commit to policy change: Open Discussion 10:00 - 10:00
- Concluding Remarks - Vinciane Quoidbach and Suzanne Dickson 10:00 - 10:00

Mini Conferences (MC)
10:00 - 14:00 

**MC02** - EBBS and EBPS: Understanding the Neuronal Mechanisms Driving Behaviour: from Molecular and Cellular Processes to Complex System Interactions

- Speakers 10:00 - 10:00

Other
10:00 - 14:00 

**Hackathon: Ethical Future with NeuroAI**

- Description 10:00 - 10:00

Special Interest Events (SiE)
10:30 - 12:00 

**SiE01** - FENS-EPA Symposium - Cannabinoids and psychiatric risk: is it safe to legalise?

- Chair: Karen Doyle (University of Galway, Ireland)
- Chair: Geert Dom (European Psychiatric Association - University of Antwerp, Belgium, Belgium)
- Introduction 10:30 - 10:36
- Impacts of maternal cannabis use on long-term psychiatric risk: the promise of interventions targeting the Omega-3 fatty acid signaling network 10:36 - 10:53
- Speaker: Steven Laviolette (University of Western Ontario, Canada)
- Q&A 10:53 - 10:57

- Cannabis legalisation and public health 10:57 - 11:14
- Speaker: Robert Smyth (Youth Drug & Alcohol service, Airton Business Park, Dublin 24, Ireland, Ireland)
- Q&A 11:14 - 11:18

- Cannabis and psychosis - is cannabis psychotogenic? 11:18 - 11:35
- Speaker: Carsten Hjorthøj (Copenhagen Research Center for Mental Health - CORE; and University of Copenhagen, Denmark)
- Q&A 11:35 - 11:39

- Cannabis and the risk of schizophrenia in at-risk populations
- Speaker: Marie-Odile Krebs (Inserm U1266 IPNP ; GHU Paris ; Institut de Psychiatrie, France)
Technical Workshop (W)
11:00 - 14:00

**W01 - Exploring new frontiers in investigating neural circuits using GPCR-based optical tools**

*Chair:* J. Simon Wiebert (Department of Neurophysiology, Mannheim Center for Translational Neuroscience, Medical Faculty Mannheim of the University Heidelberg, Germany)
*Chair:* Ofer Yizhar (Department of Brain Sciences, Weizmann Institute of Science, Israel)

**Introduction**
11:00 - 11:05

**Optical Methods for Decoding Neuromodulation in Motivated Behavior**
11:05 - 11:30

*Speaker:* Michael Bruchas (University of Washington, United States)

**Discussion**
11:30 - 11:35

**Optogenetic control and visualization of GPCR pathways**
11:35 - 12:00

*Speaker:* Stefan Herlitze (Ruhr-Universität Bochum, Germany)

**Discussion**
12:00 - 12:05

**Crustaceans as a Source of new bistable rhodopsins for Optogenetics**
12:05 - 12:30

*Speaker:* Alina Pushkarev (Humboldt University of Berlin, Germany)

**Discussion**
12:30 - 12:35

**Brightening brain science: What genetically engineered sensors tell us about the mind**
12:35 - 13:00

*Speaker:* Lin Tian (Max Planck Florida Institute of Neuroscience, United States)

**Discussion**
13:00 - 13:05

**Measuring dopamine: in vivo fluorescent imaging outside the dopamine-rich striatum**
13:05 - 13:30

*Speaker:* Marie Labouesse (ETH Zürich, Switzerland)

**Discussion**
13:30 - 13:35

**Q&A**
13:35 - 14:00

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Technical Workshop (W)
11:00 - 14:00

**W02 - Photonics for Brain**

*Chair:* Tomas Cizmar (Leibniz Institute of Photonic Technology, Fibre Research and Technology, Germany)
*Chair:* Keith Mathieson (University of Strathclyde, United Kingdom)

**Introduction**
11:00 - 11:00

**Peering into the mouse brain in action**
11:00 - 11:00

*Speaker:* Janelle Pakan (Otto von Guericke University Magdeburg, Germany)

**Hair-thin holographic endoscope for deep-brain in-vivo imaging**
11:00 - 11:00

*Speaker:* Hana Uhlířová (Institute of Scientific Instruments of the Czech Academy of Sciences, Czech Republic)

**Implantable microLED devices for optical manipulation of neural circuits**
11:00 - 11:00

*Speaker:* Keith Mathieson (University of Strathclyde, United Kingdom)

**Bringing nanophotonics into the brain: multifunctional optical neural interfaces**
11:00 - 11:00

*Speaker:* Ferruccio Pisanello (Istituto Italiano di Tecnologia, Italy)
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<th>Time</th>
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<td>11:00 - 11:00</td>
<td><strong>Ultrafast light targeting for high-throughput precise control of</strong></td>
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<td><strong>neuronal networks</strong></td>
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<td><em>Speaker:</em> Emiliano Ronzitti (Vision Institute - CNRS, France)</td>
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<td>11:00 - 11:00</td>
<td>Q&amp;A</td>
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**Technical Workshop (W)**
11:00 - 14:00

**W03 - Closed loop neuroscience**
*Chair:* Juan Gallego (Imperial College London, United Kingdom)

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<tr>
<td>11:00 - 11:00</td>
<td><strong>Introduction</strong></td>
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<td><em>Speaker:</em> Valérie Ego-Stengel (CNRS &amp; Université Paris-Saclay, France)</td>
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<td><strong>Spatial &amp; temporal rules of sensory feedback integration during</strong></td>
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<td><strong>brain-machine interface learning</strong></td>
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<td>11:00 - 11:00</td>
<td><em>Speaker:</em> Martin Privat (Max Planck Institute for Biological Intelligence, Germany)</td>
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<td><strong>Goals, plans and decisions in the zebrafish brain</strong></td>
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<td>11:00 - 11:00</td>
<td><em>Speaker:</em> Hayriye Cagnan (Imperial College London, United Kingdom)</td>
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<td><strong>Therapies orchestrated by patients’ rhythms</strong></td>
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<td>11:00 - 11:00</td>
<td><em>Speaker:</em> Timothy O’Leary (University of Cambridge, United Kingdom)</td>
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<td>Q&amp;A</td>
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**Technical Workshop (W)**
11:00 - 14:00

**W04 - State-of-the art technologies for large-scale, functional ex vivo studies of human neurons**
*Chair:* Pawel Fidzinski (Berlin Institute of Health at Charité - Universitätsmedizin Berlin, Neuroscience Clinical Research Center, Germany)
*Chair:* Natalia Goriounova (Vrije Universiteit Amsterdam, Center for Neurogenomics and Cognitive Research, Integrative Neurophysiology, Netherlands)

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<td>11:05 - 11:30</td>
<td><strong>Establishment of a large-scale, multi-user platform for functional</strong></td>
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<td><strong>studies in human brain tissue</strong></td>
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<td><em>Speaker:</em> Pawel Fidzinski (Berlin Institute of Health at Charité - Universitätsmedizin Berlin, Neuroscience Clinical Research Center, Germany)</td>
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<td>11:30 - 11:35</td>
<td>Q&amp;A</td>
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<td>11:35 - 12:00</td>
<td><strong>Mechanisms of fast signaling in human neurons</strong></td>
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<td><em>Speaker:</em> Natalia Goriounova (Vrije Universiteit Amsterdam, Center for Neurogenomics and Cognitive Research, Integrative Neurophysiology, Netherlands)</td>
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<td>12:00 - 12:05</td>
<td>Q&amp;A</td>
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<td>12:05 - 12:30</td>
<td><strong>Insights into organizational principles of human neocortical</strong></td>
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<td><strong>microcircuits</strong></td>
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<td><em>Speaker:</em> Jörg Geiger (Charité - Universitätsmedizin Berlin, corporate member of Freie Universität Berlin and Humboldt Universität zu Berlin, , , 10117 Berlin, Germany, Germany)</td>
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<td>12:30 - 12:35</td>
<td>Q&amp;A</td>
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<td>12:35 - 13:00</td>
<td><strong>Structural plasticity in temporal lobe epilepsy in humans and mice</strong></td>
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<td><em>Speaker:</em> Ute Häussler (University of Freiburg, Germany)</td>
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<td>13:00 - 13:05</td>
<td>Q&amp;A</td>
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Reimagining human cellular neurophysiology in the era of single cell genomics 13:05 - 13:30

Speaker: Brian Kalmbach (Allen Institute for Brain Science, United States)

Q&A 13:30 - 14:00

Special Lecture (SL)
13:00 - 14:00

SL01 - FENS-EJN Awards Lecture, Oscar Marin (UK), Tobias Hauser (DE), Sara Bizzotto (FR)

Introduction 13:00 - 13:00

FENS-EJN Award: Cortical interneurons in health and disease. 13:00 - 13:30

Speaker: Oscar Marin (Centre for Developmental Neurobiology and MRC Centre for Neurodevelopmental Disorders, King's College London, United Kingdom)

FENS-EJN Young Investigator Prize: Using computational neuroscience to understand mental disorders 13:30 - 13:45

Speaker: Tobias Hauser (University of Tübingen; University College London, Germany)

FENS-EJN Young Investigator Prize: Brain mosaicism: a journey on a cell's life 13:45 - 14:00

Speaker: Sara Bizzotto (Inserm, Paris Brain Institute, France)

Brain Debate
14:30 - 16:00

Brain Debate - Challenges of NeuroAI

Moderator: Hervé Chneiweiss (CNRS Senior Scientist / Chairman INSERM Ethics Committee, France)

Description 14:30 - 14:30

Panelists 14:30 - 14:30

Speaker: Emily S. Cross (ETH Zürich, Switzerland)

Speaker: Amal El Fallah Seghrouchni (Sorbonne University and UM6P, Morocco)

Speaker: Nandini Chatterjee Singh (UNESCO MGIEP, India)

Speaker: Karen Rommelfanger (Institute of Neuroethics Think and Do Tank, United States)

Opening Ceremony
16:45 - 18:00

Opening Ceremony

Plenary Lecture (PL)
18:00 - 19:00

PL01 - Fred Kavli Opening Plenary Lecture, Viviana Gradinaru (US)

Moving beyond Barriers: Gene delivery across the blood-brain barrier for precise, noninvasive study and repair of nervous systems 18:00 - 19:00

Speaker: Viviana Gradinaru (Plenary Lecturer, United States)

Networking Events (NE)
19:00 - 20:30

NE01 - Challenges of multidisciplinarity for training, career and funding in Neuroscience

Chair: Patricia Gaspar (France)

Event Description 19:00 - 20:30

Speakers 20:30 - 20:30

Speaker: Maria Florencia Iacaruso (United Kingdom)

Speaker: Alexandra Tzilivaki (Germany)

Speaker: Mathew Abrams (Sweden)
Speaker: Erkki Raulo (Finland)
Speaker: Jan Bjaalie (Norway)

Networking Events (NE)
19:00 - 20:30

**NE02 - European Brain Prosthesis: landscape and challenges**

Event Description
19:00 - 20:30

Preliminary Programme
20:30 - 20:30

Speakers
20:30 - 20:30

Speaker: Ján Antolík (Czech Republic)
Speaker: Frederik Ceyssens (Belgium)
Speaker: Eduardo Fernandez (Spain)
Speaker: György Bence (Switzerland)
Speaker: Daniel Hillier (Hungary)
Speaker: Lara Merken (Belgium)
Speaker: Peter Janssen (Belgium)
Speaker: Patrick Ruther (Germany)

Networking Events (NE)
19:00 - 20:30

**NE03 - Bridging Borders and Building Bridges: A global network for neuroscience research and education**

Event Description
19:00 - 20:30

Networking Events (NE)
19:00 - 20:30

**NE04 - Current challenges and opportunities of using AI in sleep medicine and neuroscience: a networking event for sleep researchers and clinicians**

Event Description
19:00 - 20:30

Networking Events (NE)
19:00 - 20:30

**NE05 - The Behavior Forum Social**

Event Description
19:00 - 20:30

Networking Events (NE)
19:30 - 22:00

**NE06 - HISTORY OF NEUROSCIENCE: Freud in situ: from his time to the current relationship with Neuroscience**

Event Description
19:30 - 19:30

Preliminary Programme
19:30 - 19:30

Speakers
19:30 - 19:30

Speaker: Fernando de Castro Soubriet (Spanish Research Council / CSIC-Consejo Superior de Investigaciones Científicas, Spain)
Speaker: August Ruhs (Austria)
Speaker: Juan José Martínez Jambrina (Spain)
Wednesday, 26 June 2024

Plenary Lecture (PL)
08:30 - 09:30

PL02 - Plenary Lecture, Onur Güntürkün (DE)
The unexpected evolution of the neural fundaments of complex cognition
08:30 - 09:30

Speaker: Onur Güntürkün (Ruhr-University Bochum, Germany)

Poster Sessions
09:30 - 13:00

Poster Session 01 - Section 56

PS01-26AM-454 SPATIAL HEARING WITH BIONIC EARS
Speaker: Sarah Buchholz (Germany)

PS01-26AM-455 DEVELOPMENT OF THE COCHLEAR NUCLEUS DEPENDING ON
THE HEARING EXPERIENCE OF RATS
Speaker: Nicole Rosskothen-Kuhl (Germany)

PS01-26AM-456 DOES SPATIAL HEARING WITH BIONIC EARS CHANGE WITH
JITTERED BINAURAL STIMULI?
Speaker: Tim Fleiner (Germany)

PS01-26AM-457 SENSITIVITY OF INFERIOR COLLICULUS NEURONS TO
INTERAURAL TIME AND LEVEL DIFFERENCES IN ADULT
NEONATALLY DEAFENED RATS
Speaker: Muhammad Zeeshan (Hong Kong)

PS01-26AM-458 SENSITIVITY TO ENVELOPE AND PULSE TIMING INTERAURAL
TIME DIFFERENCES IN PROSTHETIC HEARING
Speaker: Shiyi FANG (Hong Kong)

PS01-26AM-459 THE EFFECTS AND INTERACTIONS OF TOP-DOWN INFLUENCES
ON SPEECH PERCEPTION
Speaker: Reuben Chaudhuri (Hong Kong)

PS01-26AM-460 AVAILABILITY OF INFORMATION ON ARTIFICIAL INTELLIGENT-
ENHANCED HEARING AIDS: A SOCIAL MEDIA ANALYSIS
Speaker: Joanie Ferland (Canada)

PS01-26AM-461 DESIGNING A TRANSMODAL TECHNOLOGY TO FEEL SOUND
THROUGH TOUCH: THE MULTICHANNEL VIBROTACTILE
GLOVES.
Speaker: Andreanne Sharp (Canada)

PS01-26AM-462 IMPACT OF MUSICAL EXPERIENCE ON MUSIC PERCEPTION IN
THE ELDERLY
Speaker: Alexis Whittom (Canada)

PS01-26AM-463 COMMUNITY-REGULATED ETHICS: PERCEPTION AND
RESOLUTION OF ETHICAL CONFLICTS BY ONLINE
COMMUNITIES
Speaker: Chinnapat Chanprom (Thailand)

PS01-26AM-464 TEMPORALITY OF ONLINE REACTIONS IN VIRTUAL
COMMUNITIES: THE EXAMPLE OF REACTIONS TO FICTIONAL
CHARACTERS’ DEATH
Speaker: Matthieu Guitton (Canada)

PS01-26AM-465 NEUROPLASTICITY AND EARLY COCHLEAR IMPLANT USE IN
ADULT-DEAFENED HUMANS AND RATS.

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### Scientific programme

**Speaker:** Ariel Edward Hight (United States)

**PS01-26AM-466**  
**Title:** STATIC AND DYNAMIC BALANCE AFTER VESTIBULAR LOSS: IMPACT OF THE AFFECTED SIDE

**Speaker:** Liliane Borel (France)

**PS01-26AM-467**  
**Title:** COGNITIVE IMPROVEMENT UP TO 4 YEARS AFTER COCHLEAR IMPLANTATION IN OLDER ADULTS: A PROSPECTIVE LONGITUDINAL STUDY USING THE RBANS-II.

**Speaker:** Tinne Vandenbergbroeke (Belgium)

**PS01-26AM-468**  
**Title:** COGNITIVE DISTURBANCES AFTER HEARING LOSS IN ADULT RATS ARE NOT ACCOMPANIED BY ALTERED NEUN-, GABA-, AND DOPAMINE-EXPRESSION IN THE CENTRAL AUDITORY PATHWAY AND PREFRONTAL CORTEX

**Speaker:** Marla Sofie Witte (Germany)

**PS01-26AM-469**  
**Title:** AUDITORY PROCESSING DEFICITS IN A RAT MODEL OF DOWN SYNDROME

**Speaker:** Riccardo Caramellino (Switzerland)

**PS01-26AM-470**  
**Title:** HIGH RESOLUTION AUDITORY PERCEPT THROUGH SOFT AUDITORY CORTEX IMPLANT IN MACAQUES

**Speaker:** Emilie Revol (Switzerland)

**PS01-26AM-471**  
**Title:** GLASSES TO HEAR DIFFERENTLY? THE AFTEREFFECTS OF PRISM ADAPTATION ON AUDITORY THRESHOLD IN YOUNG AND OLDER HEALTHY ADULTS

**Speaker:** Vincent Ardonceau (France)

**PS01-26AM-472**  
**Title:** PRE-OPERATIVE STRUCTURAL MRI PREDICTS COCHLEAR THERAPY OUTCOME IN POST-LINGUAL DEAFNESS

**Speaker:** Ron Kupers (Canada)

**PS01-26AM-473**  
**Title:** MULTISESSION ELECTRIC STIMULATION OF THE AUDITORY CORTEX PREVENTS CORTICAL AGING IN AN AGE-RELATED HEARING LOSS WISTAR RAT MODEL.

**Speaker:** Zoltan Kristof Varga (Denmark)

**PS01-26AM-474**  
**Title:** SOMATOSENSORY CROSS-MODAL PLASTICITY IN HEARING IMPAIRED SUBJECTS BEFORE AND AFTER COCHLEAR IMPLANTATION

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**Poster Sessions**

**09:30 - 13:00**

**Poster Session 01 - Section 105**

**PS01-26AM-037**  
**Title:** MAPPING THE NEURAL CIRCUITRY: LC-NE NEURONS AND THEIR CONNECTIONS TO VTA AND RAPHE NUCLEI

**Speaker:** Maud Blaise (France)

**PS01-26AM-038**  
**Title:** LONG-TERM CONSEQUENCES OF EARLY LIFE STRESS ON NORADRENERGIC NEURONS ACTIVATION IN MALE AND FEMALE MICE

**Speaker:** Valentine Greffion (France)

**PS01-26AM-039**  
**Title:** MAPPING THE PROJECTIONS OF SEROTONERGIC DORSAL RAPHE NEURONS IN ZEBRAFISH

**Speaker:** Lucia Jiménez Fernández del Campo (Spain)

**PS01-26AM-040**  
**Title:** ROLE OF THE SEROTONERGIC DORSAL RAPHE NUCLEUS IN MEDIATING THE EFFECTS OF DEVELOPMENTAL CHRONIC STRESS IN ZEBRAFISH

**Speaker:** Zoltan Kristof Varga (Denmark)
PS01-26AM-041  INVOLVEMENT OF DORSAL RAPHE NUCLEUS (DRN) ASTROCYTES IN VALENCE PROCESSING
Speaker: Sofia Barile (Italy)

PS01-26AM-042  PACAPERGIC BRAIN PROJECTIONS TO THE VENTRAL RESPIRATORY COLUMN
Speaker: Alice Oh (Australia)

PS01-26AM-043  RAPHE NUCLEUS FUNCTION IN AVERSIVE VALENCE PROCESSING BETWEEN ADAPTIVE LEARNING AND SOCIAL DEFEAT IN ZEBRAFISH
Speaker: Hsi Chen (Taiwan)

PS01-26AM-044  A1-NORADRENERGIC CAMP SIGNALING IN ASTROCYTES OF THE MURINE OLFACTORY BULB
Speaker: Jessica Sauer (Germany)

PS01-26AM-045  INVOLVEMENT OF PEPTIDERGIC EDINGER-WESTPHAL NUCLEUS IN THE NEUROBIOLOGY OF MIGRAINE
Speaker: Ammar Al-Omari (Hungary)

PS01-26AM-046  “MICRORNA-34A FROM GABAERGIC NEURONS OF THE RAPHE CONTRIBUTES TO ITS PERIPHERAL PLASMA LEVEL”
Speaker: Elena Tittarelli (Italy)

PS01-26AM-047  SEROTONIN NEURONS IN THE DORSAL RAPHE NUCLEUS ENCODE PROBABILITY RATHER THAN VALUE OF FUTURE REWARDS
Speaker: Kayoko Miyazaki (Japan)

PS01-26AM-048  THE EFFECTS OF CRF AGONISTS AND ANTAGONISTS ON THE NORADRENALINE RELEASED FROM THE LOCUS COERULEUS AND THE SEROTONIN RELEASED FROM THE RAPHE NUCLEI
Speaker: Zsolt Bagosi (Hungary)

PS01-26AM-049  DORSAL AND MEDIAN RAPHE NEURONAL FIRING DYNAMICS CHARACTERIZED BY NON-LINEAR MEASURES
Speaker: Claudia Pascovich (Uruguay)

PS01-26AM-050  TOPOGRAPHICALLY ORGANIZED SENSORY-MOTOR ACTIVITY OF DORSAL RAPHE AND ITS FOREBRAIN INNERVATIONS MODULATE RESTING-STATE AND SENSORY-EVOKED FOREBRAIN ACTIVITY AND ANIMAL BEHAVIOR
Speaker: Aytac Kadir Mutlu (Norway)

PS01-26AM-051  IDENTIFICATION OF EXCITATORY PRESYNAPTIC NEURONS PARTICIPATING IN REGULATION OF NORADRENERGIC NEURONS IN THE LOCUS COERULEUS
Speaker: Hsiu-Wen Yang (Taiwan)

Poster Sessions
09:30 - 13:00
Poster Session 01 - Section 16
PS01-26AM-559  IMPACT OF LIS1 MUTATION ON THE PARVALBUMIN-POSITIVE INTERNEURONS OF THE CINGULATE CORTEX
Speaker: Pilar Madrigal (Spain)

PS01-26AM-560  IMPACT OF LIS1 MUTATION ON THE DEVELOPMENT OF SOMATOSTATIN-POSITIVE INTERNEURONS IN THE CINGULATE CORTEX
Speaker: Ana Pombero (Spain)

PS01-26AM-561  VANGL2 PARTICIPATES IN THE CORRECT TEMPORAL CONNECTIVITY OF THE DG-CA3 CIRCUITS AND IN DECLARATIVE


**MEMORY PROCESSES.**

*Speaker:* Maïté Moreau (France)

**PS01-26AM-562**

**DLX5/6 INVOLVEMENT IN THE POSTNATAL MATURATION OF CORTICAL PARVALBUMIN NEURONS DURING CRITICAL PERIODS.**

*Speaker:* Lou Belz (France)

**PS01-26AM-563**

**LHX4 SURPASSES LHX3 TO PROMOTE THE DIFFERENTIATION OF SPINAL V2A INTERNEURONS**

*Speaker:* Estelle Renaux (Belgium)

**PS01-26AM-564**

**PAX6 ISOFORMS LABEL DISTINCT POPULATIONS OF CORTICAL PROGENITOR CELLS IN THE MOUSE BRAIN.**

*Speaker:* Ines Gonzalez-Aspe (Spain)

**PS01-26AM-565**

**DEVELOPMENTAL CAJAL-RETZIUS CELL DEATH CONTRIBUTES TO THE MATURATION OF CORTICAL INHIBITION AND SOMATOSENSORY PROCESSING.**

*Speaker:* Angeliki Damilou (Switzerland)

**PS01-26AM-566**

**POSTNATAL FUNCTIONS OF HOXA5 IN THE MURINE HINDBRAIN: LESSONS FROM BEHAVIORAL CHARACTERIZATION OF A POSTNATAL KNOCKOUT**

*Speaker:* Hadrien Glibert (Belgium)

**PS01-26AM-567**

**ORIGINS OF GABAERGIC NEURONS MIGRATING THROUGH THE HUMAN AND MONKEY MARGINAL ZONE DURING MIDGESTATION**

*Speaker:* Maura Zanze Beader (Croatia)

**PS01-26AM-568**

**COMPLEX SLABLAMINATION OF CORTICAL MARGINAL ZONE IN HUMAN AND MONKEY AT MIDGESTATION**

*Speaker:* Marina Čavka (Croatia)

**PS01-26AM-569**

**A POSTNATAL MOLECULAR SWITCH DRIVES THE ACTIVITY-DEPENED MATURATION OF CORTICAL PARVALBUMIN INTERNEURONS**

*Speaker:* Monika Moissidis (United Kingdom)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 01 - Section 26**

**PS01-26AM-078**

**LONG-TERM (INTERGENERATIONAL) EFFECTS OF CHRONIC STRESS ON MOUSE BEHAVIOR AND ITS INTERACTION WITH THE CIRCADIAN GENE REGULATION IN THE HIPPOCAMPUS**

*Speaker:* Vincent Fischer (Switzerland)

**PS01-26AM-079**

**ROLE OF PATERNAL GLUCOCORTICOID RECEPTOR IN THE TRANSMISSION OF STRESS-INDUCED EPIGENETIC CHANGES**

*Speaker:* Selina Joy Frei (Switzerland)

**PS01-26AM-080**

**CHRONIC EXPOSURE TO GLUCOCORTICOIDS DURING CRITICAL NEURODEVELOPMENTAL PERIODS LEADS TO LASTING SHIFTS IN NEURONAL TYPE DISTRIBUTION AND OVERALL BRAIN ARCHITECTURE**

*Speaker:* Ilknur Safak Demirel (Sweden)

**PS01-26AM-081**

**UNVEILING MOLECULAR SIGNATURES IN RESILIENCE FOLLOWING CHILD ABUSE: NORADRENERGIC CELLS TRANSCRIPTOMICS IN HUMAN POST MORTEM TISSUES**

*Speaker:* Déa Slavova (France)

**PS01-26AM-082**

**COMBINED RESTRAINT STRESS AND METAL EXPOSURE**
PARADIGMS IN RATS; COGNITIVE ASSESSMENT, BRAIN
OXIDATIVE STRESS, CASPASE-3 MEDIATED RESPONSES,
MUCROGLIAL ACTIVATION, AND MYELIN HEALTH

*Speaker*: Oritoke Okeowo (Nigeria)

**PS01-26AM-083** MODELLING THE STRESS RESPONSE IN SH-SY5Y-DERIVED
NEURONS: DISENTANGLING THE MINERALOCORTICOID AND
GLUCOCORTICOID RECEPTORS

*Speaker*: Justin Lugenbiuhl (United States)

**PS01-26AM-084** TRANSCRIPTIONAL RESPONSE OF PRIMARY HIPPOCAMPAL
NEURONS FOLLOWING EXPOSURE TO RADIOFREQUENCY
ELECTROMAGNETIC FIELDS

*Speaker*: Ibtissam Echchygadda (United States)

**PS01-26AM-085** IMPACT OF STRESS ON COGNITION AND PREFRONTAL
NETWORKS

*Speaker*: Ashley Lebel (France)

**PS01-26AM-086** EFFECTS OF ADOLESCENT STRESS ON SYNAPTIC TRANSMISSION
IN ADULT MOUSE DENTATE GYRUS

*Speaker*: Nadja Treiber (Germany)

**PS01-26AM-087** MODIFYING FACTORS OF THE INSULIN-INDUCED STRESS
STUDIED IN WISTAR RATS

*Speaker*: Evelin Szabo (Hungary)

**PS01-26AM-088** IMPACT OF CHRONIC STRESS AND CORTISOL ON HIPPOCAMPAL
NEUROPLASTICITY: IMPLICATIONS FOR DEPRESSION.

*Speaker*: Nikolai Malykhin (Canada)

**PS01-26AM-089** THE ROLE OF PLACENTAL CRH IN HUMAN BRAIN
DEVELOPMENT

*Speaker*: Yassemi Koutmani (Greece)

**PS01-26AM-090** GLUCOCORTICOID SIGNALLING AFFECTS ASTROCYTE FUNCTION
VIA LONG NON-CODING RNAS

*Speaker*: Tarannomsadat Taghavi (Germany)

**PS01-26AM-091** FKBP5 MODERATES GLUCOCORTICOID RECEPTOR - INDUCED
CLOCK GENE OSCILLATIONS IN ASTROCYTES.

*Speaker*: Tansu Göver (Poland)

**PS01-26AM-092** STRESS PROMOTES PERIPHERAL IMMUNE INTERACTIONS AT
THE BRAIN ENDOTHELIUM

*Speaker*: Johana Alvarez (United States)

**PS01-26AM-093** EARLY LIFE ADVERSITY AND THE IMPACT OF
GLUCOCORTICOIDS ON NG2-GLIA: A POTENTIAL MECHANISM
FOR STRESS-RELATED PSYCHIATRIC DISORDERS

*Speaker*: Katrin Becker (Germany)

**PS01-26AM-094** SINGLE-CELL TRANSCRIPTOMIC PROFILES OF THE VENTRAL
HIPPOCAMPUS IN RESPONSE TO PROLONGED CHRONIC STRESS
AND ANTIDEPRESSANT ACTION

*Speaker*: Benedetta Bigio (United States)

**Poster Sessions**
09:30 - 13:00

**Poster Session 01 - Section 3B**

**PS01-26AM-001** SPATIAL REPRESENTATION IN THE VISUAL CORTEX,
RETROSPLENIAL CORTEX AND (PARA)HIPPOCAMPAL
FORMATION OF FREELY MOVING MICE

*Speaker*: Hanna Eneqvist (Norway)
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<th>PS01-26AM-002</th>
<th>DEVELOPMENT OF TOROIDAL AND RING MANIFOLDS IN THE ENTORHINAL NETWORKS</th>
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<td>Speaker: Matteo Guardamagna (Norway)</td>
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<td>PS01-26AM-003</td>
<td>INCREASED DRIFT OF POPULATION ACTIVITY IN THE HIPPOCAMPUS UNDER SENSORY-MINIMIZED CONDITIONS</td>
<td>09:30 - 09:30</td>
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<td>Speaker: Ane Lautrup (Norway)</td>
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<td>PS01-26AM-005</td>
<td>LATERAL ENTORHINAL DYNAMICS DRIFT AND SHIFT AT BEHAVIORALLY RELEVANT TIMESCALES</td>
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<td>Speaker: Benjamin Kanter (Norway)</td>
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<td>PS01-26AM-006</td>
<td>TOPOGRAPHICAL ORGANIZATION OF FUNCTIONAL CELL TYPES IN THE MEDIAL ENTORHINAL CORTEX</td>
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<td>Speaker: Martin Pofahl (Norway)</td>
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<td>PS01-26AM-007</td>
<td>ALL-OPTICAL INTERROGATION OF FUNCTIONAL CONNECTIVITY IN GRID CELL NETWORKS</td>
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<td>Speaker: Nienke Laura de Jong (Norway)</td>
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<td>PS01-26AM-008</td>
<td>THE QUALITY AND COMPLEXITY OF PAIRWISE MAXIMUM ENTROPY MODELS FOR LARGE CORTICAL POPULATIONS</td>
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<td>PS01-26AM-009</td>
<td>A NEURAL NETWORK MODEL THAT LEARNS TO ENCODE AND RETRIEVE MEMORIES FOR SPATIAL NAVIGATION</td>
<td>09:30 - 09:30</td>
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<td>Speaker: Xiangshuai Zeng (Germany)</td>
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<td>PS01-26AM-010</td>
<td>MODELING THE NEURAL MECHANISMS UNDERLYING REVERSAL LEARNING IN SPATIAL NAVIGATION</td>
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<td>Speaker: Behnam Ghazinouri (Germany)</td>
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<td>PS01-26AM-011</td>
<td>MODELING THE TRIAL-BY-TRIAL DYNAMICS OF A REVERSAL LEARNING TASK WITH REINFORCEMENT LEARNING</td>
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<td>Speaker: Nicolas Diekmann (Germany)</td>
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<td>PS01-26AM-012</td>
<td>HIPPOCAMPAL PLACE FIELD FORMATION BY SPARSE, LOCAL LEARNING OF VISUAL FEATURES IN VIRTUAL REALITY</td>
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<td>PS01-26AM-013</td>
<td>NETWORK MECHANISMS FOR STATISTICAL LEARNING AND PLACE FIELD FORMATION IN THE HIPPOCAMPUS</td>
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<td>PS01-26AM-014</td>
<td>PREFRONTAL-REUNIENS INPUTS FOR GOAL-DEPENDENT PLACE-CELL REMAPPING AND REPLAY SEQUENCES IN THE HIPPOCAMPUS</td>
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<td>PS01-26AM-015</td>
<td>THE NUCLEUS REUNIENS DRIVES HIPPOCAMPAL GOAL-DIRECTED TRAJECTORY SEQUENCES FOR ROUTE PLANNING</td>
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<td>Speaker: Hye-A Kim (Germany)</td>
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<td>PS01-26AM-016</td>
<td>EMERGENCE OF DIFFERENT SPATIAL COGNITIVE MAPS IN CA1 FOR RATS PERFORMING AN EPISODIC MEMORY TASK USING EGOCENTRIC AND ALLOCENTRIC NAVIGATIONAL STRATEGIES</td>
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<td>PS01-26AM-017</td>
<td>DEVELOPMENT AND REORGANIZATION OF HIPPOCAMPAL REPRESENTATIONS DURING CONTEXTUAL SPATIAL LEARNING</td>
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<td>Speaker: Rita Nyilas (Hungary)</td>
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<td>PS01-26AM-018</td>
<td>CAUSAL CONTROL OF SPATIAL NAVIGATION BY A HIPPOCAMPAL BRAIN-MACHINE INTERFACE INDUCES RAPID RECONFIGURATION OF COGNITIVE MAPS</td>
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PS01-26AM-019  A DEEP OSCILLATORY NEURAL NETWORK WITH GRAPH CONVOLUTION TO MODEL SPATIAL CELLS IN HIPPOCAMPAL FORMATION  
09:30 - 09:30

Speaker: Bharat Kailas Patil (Austria)

PS01-26AM-020  DISTINCT MANIFOLD ENCODING OF NAVIGATIONAL INFORMATION IN THE SUBICULUM AND HIPPOCAMPUS  
09:30 - 09:30

Speaker: Shinya Nakai (Japan)

PS01-26AM-021  APPLICATION OF THE LOCAL ACTIVITY PRINCIPLE TO EXPLAIN GRID CELL DYNAMICS  
09:30 - 09:30

Speaker: Mark Christian Guinto (Japan)

PS01-26AM-022  GRID REPRESENTATION FOR FUTURE SPATIAL INFORMATION IN THE MEDIAL ENTORHINAL CORTEX  
09:30 - 09:30

Speaker: Ayako Ouchi (Japan)

PS01-26AM-023  NEURONAL DISCRIMINATION OF VISUAL ENVIRONMENTS DIFFERENTIALLY DEPENDS ON BEHAVIOURAL CONTEXT IN THE HIPPOCAMPUS AND NEOCORTEX  
09:30 - 09:30

Speaker: Cantin Ortiz (France)

PS01-26AM-024  HIPPOCAMPAL SPATIAL REPRESENTATIONS AND NEURONAL DYNAMICS IN RATS INTERACTING WITH A MOVING ROBOT  
09:30 - 09:30

Speaker: Ksenia Lavorova (Czech Republic)

PS01-26AM-025  FINDING YOUR WAY IN A BUBBLE IS EASIER, IF YOU CAN VISUALIZE IT  
09:30 - 09:30

Speaker: Judit Fiedler (Italy)

PS01-26AM-026  FUNCTIONS OF THE MEDIAL TEMPORAL LOBE IN MEMORY AND NAVIGATION OF CONCEPTUAL SPACES  
09:30 - 09:30

Speaker: Elias Rau (Germany)

PS01-26AM-027  REVERSE ENGINEERING RECURRENT NETWORK MODELS REVEALS MECHANISMS FOR LOCATION MEMORY  
09:30 - 09:30

Speaker: Ian Hawes (United Kingdom)

PS01-26AM-028  HIPPOCAMPAL PLACE CELLS CAN MAP SPACE USING DISTAL AUDITORY CUES  
09:30 - 09:30

Speaker: Denise Manahan-Vaughan (Germany)

PS01-26AM-029  CELLULAR MODEL OF A PLACE CELL FORMATION  
09:30 - 09:30

Speaker: camille mazzara (Italy)

PS01-26AM-030  GRID FIELDANCHORING ENHANCES PATH INTEGRATION-DEPENDENT BUT NOT CUE-BASED NAVIGATION  
09:30 - 09:30

Speaker: Harry Clark (United Kingdom)

PS01-26AM-031  LOCAL EXPANSION OF THE GRID CELL MAP DURING A GOAL DIRECTED NAVIGATION TASK.  
09:30 - 09:30

Speaker: Fabrizio Capitano (France)

PS01-26AM-032  BEYOND BTSP: UNVEILING THE MECHANISMS FOR PLACE FIELD FORMATION IN HIPPOCAMPAL CA1  
09:30 - 09:30

Speaker: Mate Sumegi (Hungary)

PS01-26AM-033  NETWORK MECHANISMS OF SPATIAL MEMORY PATTERN ACTIVATION AND UPDATE  
09:30 - 09:30

Speaker: Karel Jezek (Czech Republic)

PS01-26AM-034  CHARACTERISTICS OF PLACE FIELD FORMATION IN THE HIPPOCAMPAL CA1 AND CA3 REGIONS  
09:30 - 09:30

Speaker: Martin Blazsek (Hungary)
Scientific programme

PS01-26AM-035  A TOPOLOGY-PRESERVED SCHEMA OF SPACE IN THE ORBITOFRONTAL CORTEX
Speaker: Raunak Basu (Israel)

PS01-26AM-036  GENERATION OF POSITION CORRELATED ACTIVITY IN PRIMARY SENSORY CORTEXES REQUIRES BOTTOM-UP INPUTS
Speaker: Zaneta Navratilova (United States)

Poster Sessions
09:30 - 13:00

Poster Session 01 - Section 178

PS01-26AM-126  SPIKING NEURAL NETWORK MODELS OF DEVELOPMENTAL FREQUENCY ACCELERATION IN THE MOUSE PREFRONTAL CORTEX
Speaker: Gabriel Matias Lorenz (Italy)

PS01-26AM-127  ESTIMATING THE EFFECT OF NMDA RECEPTORS ON NETWORK-LEVEL OSCILLATIONS AND INFORMATION PROCESSING
Speaker: Gabriele Mancini (Italy)

PS01-26AM-128  ACCURATE DETECTION OF SPIKING MOTIFS IN NEUROBIOLOGICAL DATA BY LEARNING HETEROGENEOUS DELAYS OF A SPIKING NEURAL NETWORK
Speaker: Laurent Perrinet (France)

PS01-26AM-129  EMERGENCE OF NMDA-SPIKES: UNRAVELING NETWORK DYNAMICS IN PYRAMIDAL NEURONS
Speaker: Michael Dick (Germany)

PS01-26AM-130  A DEEP-LEARNING APPROACH TO QUASI-INSTANTANEOUS MARKOV-MODELING OF ION CHANNEL GATING
Speaker: Efthymios Oikonomou (Germany)

PS01-26AM-131  SUPERVISED SPIKE INFERENCE FROM CALCIUM IMAGING DATA: NEW DATASETS, NEW ANALYSES
Speaker: Peter Rupprecht (Switzerland)

PS01-26AM-132  IDENTIFYING OVERLAPPING SPIKES IN NEURAL ACTIVITY WITH UNSUPERVISED-SUBSPACE DOMAIN ADAPTATION
Speaker: Min-Ki Kim (Korea, Republic of)

PS01-26AM-133  FITTING, COMPARISON AND SELECTION OF DIFFERENT CALMODULIN KINETIC SCHEMES ON A SINGLE DATA SET USING NON-LINEAR MIXED EFFECTS MODELLING
Speaker: Domas Linkevicius (United Kingdom)

PS01-26AM-134  A MACHINE LEARNING TOOLBOX TO DETECT AND COMPARE SHARP-WAVE RIPPLES ACROSS SPECIES
Speaker: Andrea Navas-Olive (Spain)

PS01-26AM-135  THE ROLE OF MULTI-NEURON TEMPORAL SPIKING PATTERNS ON STABLE ENCODING OF NATURAL MOVIE PRESENTATIONS
Speaker: Boris Sotomayor (Germany)

PS01-26AM-136  A HIERARCHICAL BAYESIAN MIXTURE APPROACH FOR MODELLING NEURONAL CONNECTIVITY PATTERNS FROM MAPSEQ DATA.
Speaker: Edward Agboraw (United Kingdom)

PS01-26AM-137  DEEP LEARNING-DRIVEN COMPRESSION OF EXTRACELLULAR NEURAL SIGNALS
Speaker: János Rokai (Hungary)

PS01-26AM-138  AN EFFICIENT SPATIAL CELL TYPE PIPELINE AND ANALYSIS
Scientific programme

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

SUITE

Speaker: Ron Di Tullio (United States)

PS01-26AM-139 SELF-SUPERVISED LEARNING OF SPIKING MOTIFS IN NEUROBIOLOGICAL DATA

Speaker: Adrien Fois (France)

Poster Sessions
09:30 - 13:00

Poster Session 01 - Section 125

PS01-26AM-095 OXYTOCIN MEDIATES SOCIAL COLLABORATION IN A CORTICAL-AMYGDALA NETWORK

Speaker: Romain Tomà (Switzerland)

PS01-26AM-096 COMBINING ON-CELL PATCH CLAMP WITH LOCALIZED MUSCIMOL PUFFING TO REVEAL ELECTROPHYSIOLOGICAL ABNORMALITIES IN TRANSGENIC RAT MODELS OF ASD

Speaker: Nicola Verda (Switzerland)

PS01-26AM-097 NEUROMODULATION SIGNALING IN THE NUCLEUS ACCUMBENS DURING MATERNAL BEHAVIOR

Speaker: Clémence Simonnet (Switzerland)

PS01-26AM-098 NEURAL MECHANISMS OF PATHOGEN THREAT-INDUCED SOCIAL AVOIDANCE

Speaker: Federica Maltese (Switzerland)

PS01-26AM-099 CELLULAR AND CIRCUIT UNDERPINNINGS OF SOCIAL BEHAVIOUR ADAPTATIONS

Speaker: Myrto Panopoulou (Switzerland)

PS01-26AM-100 TRANSLATIONAL REGULATION OF OXYTOCIN RECEPTOR EXPRESSION IN THE CONTEXT OF SOCIAL BEHAVIOR

Speaker: Julia Odermatt (Switzerland)

PS01-26AM-101 AN ACCESSORY PREFRONTAL CORTEX-THALAMUS CIRCUIT SCULPTS MATERNAL BEHAVIOR IN VIRGIN FEMALE MICE

Speaker: Anna Gundacker (Austria)

PS01-26AM-102 NEURAL MECHANISMS ENCODING GESTATIONAL IMMUNE ACTIVATION IN THE FEMALE BRAIN

Speaker: Laura Cuenca Rico (Austria)

PS01-26AM-103 DECIPHERING LACTATION DYNAMICS: THE ANISOTROPIC SYNCHRONIZATION OF OXYTOCIN NEURONS IN RATS

Speaker: Yan Tang (Switzerland)

PS01-26AM-104 EXPERIENCE-DEPENDENT MODULATION OF SENSORY INPUTS IN THE POSTPARTUM HYPOTHALAMUS FOR INFANT-DIRECTED MOTOR ACTIONS

Speaker: Kaya Melissa Baumert (Germany)

PS01-26AM-105 DOES VOLIZED MOUSE BECOME MORE ROMANTIC?-TRANSCRIPTIONAL LABILITY OF BRAIN OXYTOCIN RECEPTOR (OXTR) GENERATES DIVERSITY IN BRAIN OXTR DISTRIBUTION AND SOCIAL BEHAVIORS

Speaker: qi zhang (Japan)

PS01-26AM-106 LIGHT MODULATES CENTRAL OXYTOCIN AND SOCIAL MEMORY VIA A RETINA-TO-SUPRAOPTIC NUCLEUS CIRCUIT

Speaker: Yu-Fan Huang (Taiwan)

PS01-26AM-107 VASOPRESSIN SHIFTS THE EXCITATION-INHIBITION BALANCE IN THE OLFATORY BULB NETWORK VIA DIFFERENTIAL
EFFECTS ON OLFACTORY BULB NEURON SUBTYPES
Speaker: Hajime Suyama (Germany)

PS01-26AM-108 AIRBORNE OXYTOCIN AFFECTS NAVIGATION PREFERENCE AND SOCIAL BEHAVIOR IN YOUNG BUT NOT OLD MICE
Speaker: Li-Han Sun (Taiwan)

PS01-26AM-109 TUMOR PROTEIN P73 REGULATES PHEROMONAL AND MATING BEHAVIORS IN MICE
Speaker: Miriam González-Gómez (Spain)

PS01-26AM-110 THE NEURAL DYNAMICS OF COMPLEX MATERNAL BEHAVIOR
Speaker: Eduarda Streit Morsch (Switzerland)

PS01-26AM-111 EXPLORING THE ROLE OF UCP2 UNCOUPLING PROTEIN 2 (UCP2) IN SOCIAL BEHAVIOUR THROUGH VASOPRESSINERGIC PATHWAYS
Speaker: Adrienn Szabó (Hungary)

PS01-26AM-112 EXPLORING THE ROLE OF PUPS’ ODOR IN ALLOPARENTAL BEHAVIORS
Speaker: Tessa Scarabello (France)

PS01-26AM-113 OXYTOCIN AMELIORATES AGGRESSION IN A MOUSE MODEL OF AUTISM SPECTRUM DISORDER (ASD)
Speaker: Zhuoni Li (United Kingdom)

PS01-26AM-114 VASOPRESSINERGIC NEURONS CONTROL MATING BEHAVIOR IN ZEBRAFISH
Speaker: Fang Zhi Chua (Taiwan)

PS01-26AM-115 PREOPTIC CIRCUIT REMODELLING UNDERLIES ALLOPARENTAL CARE IN JUVENILE MICE
Speaker: Bradley Jamieson (United Kingdom)

PS01-26AM-116 SEX DIMORPHISMS DURING JUVENILITY IN NOVELTY BASED SPATIAL MEMORY: POSSIBLE ROLE OF HIPPOCAMPAL OXYTOCIN
Speaker: Evleen shehadeh (Israel)

PS01-26AM-117 ROLE OF THE PREFRONTAL CORTEX AND NUCLEUS ACCUMBENS IN MATERNAL AND INFANTICIDAL BEHAVIOR IN NAÏVE MICE (C57BL6)
Speaker: Marcela Alsina-Llanes (Uruguay)

PS01-26AM-118 SCENT OF A MEMORY: DISSECTING THE VOMERONASAL-HIPPOCAMPAL AXIS IN SOCIAL RECOGNITION
Speaker: Camila Alexia Savarelli Balsamo (Spain)

PS01-26AM-119 MATERNAL FMR1 DEFICIENCY DYSREGULATES OFFSPRING SOCIABILITY AND OXYTOCINERGIC SIGNALING IN THE VTA
Speaker: Bojana Zupan (United States)

PS01-26AM-120 OXYTOCIN’S ROLE IN BEHAVIOURAL PRIORITIZATION: EXAMINING COMPETING SOCIAL AND FOOD NEEDS IN MICE
Speaker: Niranjan Biju (Germany)

PS01-26AM-121 FAST AND (SOMETIMES) FURIOUS: OXYTOCINERGIC MODULATION OF FAST-SPIKING INTERNEURONS IN HIPPOCAMPAL CA1 REGION AND CAUDOPUTAMEN OF MICE
Speaker: Antonio Nicolas Castagno (Italy)

PS01-26AM-122 OXYTOCIN SIGNALING REGULATES MATERNALLY-DIRECTED BEHAVIOR DURING EARLY LIFE
Speaker: Daniel Zelmanoff (Israel)

PS01-26AM-123 EARLY OFFSPRING SEPARATION CAUSES INCREASED
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**Poster Session 01 - Section 143**

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<td>Benjamin Campbell (Canada)</td>
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**PS01-26AM-538**  
**ADIPOSE DERIVED NEURAL STEM-LIKE CELLS AS A HUMAN MODEL OF ALS MOTONEURONS**  
**Speaker:** Marta Martinez (Spain)

**PS01-26AM-539**  
**CHAPERONE MEDIATED AUTOPHAGY IS DEFICIENT IN SPINAL MOTONEURONS OF ALS PATIENTS.**  
**Speaker:** Daniel Garrigos (Spain)

**PS01-26AM-540**  
**THE KNOCKING-DOWN OF THE RESTRICTIVE ELEMENT 1-SILENCING TRANSCRIPTION FACTOR (REST) IMPROVES SYMPTOMS AND LIMIT MOTOR NEURONS DEGENERATION IN A MOUSE MODEL OF AMYOTROPIC LATERAL SCLEROSIS.**  
**Speaker:** Natascia Guida (Italy)

**PS01-26AM-541**  
**WHEN YOUR SUPPORT CELLS AREN’T THAT SUPPORTIVE: ASTROCYTIC ALTERATIONS CONTRIBUTE TO EARLY IMPAIRMENTS IN THE MOTOR CORTEX PLASTICITY OF PRESYMPTOMATIC SOD1<sup>G93A</sup> MICE**  
**Speaker:** Sara Costa-Pinto (Portugal)

**PS01-26AM-542**  
**DISEASE-ASSOCIATED MICROGLIA-DEPENDENT AND INDEPENDENT PATHOPHYSIOLOGY IN SPINAL CORD LESIONS IN AMYOTROPIC LATERAL SCLEROSIS**  
**Speaker:** Kazuya Takahashi (Japan)

**PS01-26AM-543**  
**SODIOPATHY IN SPORADIC AMYOTROPHIC LATERAL SCLEROSIS WITH HIGH PLASMA MISFOLDED SOD1 PROTEIN LEVEL AND SPECIFIC ELECTROPHYSIOLOGICAL PATTERN**  
**Speaker:** Li-Kai Tsai (Taiwan)

**PS01-26AM-544**  
**THERAPEUTIC ADMINISTRATION OF THE BORNA VIRUS X PROTEIN BY A VIRAL VECTOR AAV10 IN A MOUSE MODEL OF ALS**  
**Speaker:** Jeflie Tournezy (France)

**PS01-26AM-545**  
**DIETARY NMN SUPPLEMENTATION ENHANCES MOTOR AND NMJ FUNCTION IN SOD1<sup>G93A</sup> MOUSE MODEL OF ALS**  
**Speaker:** Shinghua Ding (United States)

**PS01-26AM-546**  
**THE GPT HSOD1 G93A MOUSE MODEL CAN RECAPITULATE PROGRESSIVE ALS-LIKE PHENOTYPES**  
**Speaker:** Hao Qi (China)

**PS01-26AM-547**  
**THERAPEUTIC EFFECT OF EXTRACELLULAR VESICLES DERIVED FROM MESENCHYMAL STEM CELLS IN AMYOTROPIC LATERAL SCLEROSIS**  
**Speaker:** Francesca Bacchetti (Italy)

**PS01-26AM-548**  
**THE ASSOCIATION BETWEEN REDUCED RESPIRATORY FUNCTION AND COGNITION IN AMYOTROPIC LATERAL SCLEROSIS**  
**Speaker:** Ana Kuder (Slovenia)

**PS01-26AM-549**  
**CORRELATION BETWEEN MOTONEURONAL SURVIVAL AND VEGF EXPRESSION IN BRAINSTEM MOTONEURONS IN THE SOD1 ALS MURINE MODEL.**  
**Speaker:** Silvia Silva Hucha (Spain)

**PS01-26AM-550**  
**NETWORK FUNCTION AND ELECTROPHYSIOLOGICAL PROPERTIES ARE IMPAIRED IN CORTICOMOTOR NEURONS OF C90RF72 LOSS-OF-FUNCTION AND GAIN-OF-FUNCTION ALS MOUSE MODELS**  
**Speaker:** Miranda de Saint-Rome (Canada)
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**Posters**

**Poster Session 01 (Poster authors in attendance: 11:30 - 13:00)**

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EXCITATORY/INHIBITORY BALANCE IN HEALTH AND DISEASE

Speaker: Wesleigh Dunn (United Kingdom)

PS01-26AM-269 ROLE OF ALZHEIMER’S DISEASE IN THE NEUROSENSORY HYPOACUSIA ASSOCIATED WITH ALTERATION IN VOLTAGE GATE POTASSIUM ION CHANNELS

Speaker: Miren Revuelta (Spain)

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**Poster Session 01 - Section 122**

PS01-26AM-271 INVESTIGATION OF THE ROLE OF GLUCOSE AND LACTATE TO SUSTAIN BASAL SYNAPTIC TRANSMISSION BY MODULATING THE EXPRESSION OF THEIR RESPECTIVE TRANSPORTERS.

Speaker: Juan Garcia-Ruiz (France)

PS01-26AM-272 IN VIVO IMAGING OF CB1-DEPENDENT MODULATION OF BRAIN METABOLISM

Speaker: Tommaso Dalla Tor (France)

PS01-26AM-273 IMPACT OF PERIPHERAL GLUCOSE AND MONOCARBOXYLATE TRANSPORTER INHIBITION ON MOUSE CORTICAL EXTRACELLULAR GLUCOSE AND LACTATE

Speaker: Claude Messier (Canada)

PS01-26AM-274 DISTRIBUTION OF RODENT CEREBELLAR GLYCOGEN AND ITS ROLE IN MOTOR BEHAVIOR

Speaker: Ashley Bomin Lee (Denmark)

PS01-26AM-275 MITOCHONDRIAL PYRUVATE METABOLISM REGULATES THE ACTIVATION OF QUIESCENT ADULT NEURAL STEM CELLS

Speaker: Francesco Petrelli (Switzerland)

PS01-26AM-276 UNRAVELLING THE ROLE OF MICROGLIAL MCT4 IN ISCHEMIC STROKE

Speaker: Gloria Colombo (Switzerland)

PS01-26AM-277 LOSS OF MICROGLIAL MCT4 LEADS TO DEFECTIVE SYNAPTIC PRUNING AND ANXIETY-LIKE BEHAVIOR IN MICE

Speaker: Katia Monsorno (Switzerland)

PS01-26AM-278 INSULIN SIGNALING IN ASTROCYTES PLAYS A ROLE IN BRAIN-LIVER AXIS IN THE CONTROL OF GLUCOSE PRODUCTION.

Speaker: Elena Garcia Clave (Germany)

PS01-26AM-279 MICROGLIA AS A POTENTIAL REGULATOR OF HYPOTHALAMIC METABOLISM

Speaker: Chiara Mazzola (Italy)

PS01-26AM-280 METABOLIC RESPONSE OF CORTICAL NEURONS, ASTROCYTES, AND BLOOD VESSELS TO LOCOMOTION.

Speaker: Alisa Tiaglik (China)

PS01-26AM-281 GLUTAMATERGIC NEURONAL TRANSMISSION REGULATES ASTROCYTIC FATTY ACID METABOLISM

Speaker: Francina Bagur-Llufriu (Spain)

PS01-26AM-282 WHEN METABOLISM MEETS SIGNALING: NEW MECHANISMS FOR LACTATE-INDUCED POTENTIATION OF NMDA RECEPTOR CURRENTS

Speaker: Gabriel Herrera-Lopez (Saudi Arabia)

PS01-26AM-283 THE NEUROMETABOLIC UNDERPINNINGS OF SOCIAL RANK - UNDERLYING MECHANISMS IN THE ASTROCYTES OF THE
NUCLEUS ACCUMBENS

PS01-26AM-284 LACTATE INFLUENCES THE M6A RNA METHYLATION OF GENES INVOLVED IN NEURONAL FUNCTION

Speaker: Silvie Ruigrok (Switzerland)

PS01-26AM-285 ASTROCYTE-NEURON LACTATE SHUTTLE IN DEPRESSION: INSIGHTS FROM STRESS AND CORTICOSTERONE MODELS

Speaker: Anel Lopez-Gonzalez (Saudi Arabia)

PS01-26AM-286 PROTEIN-METABOLITE INTERACTOMICS IN NEURODEVELOPMENT

Speaker: Matteo Barel (Austria)

PS01-26AM-287 INVESTIGATION OF GLUTAMATE ACCUMULATION AND EXCITOTOXIC MECHANISMS DURING THE ACUTE PHASE OF METABOLIC STRESS

Speaker: German Lauer (Germany)

PS01-26AM-288 AN ESSENTIAL ROLE OF A NON-ESSENTIAL AMINO ACID: BRAIN DEVELOPMENT CRITICALLY DEPENDS ON SUPPLY OF SERINE THROUGH THE BLOOD-BRAIN BARRIER

Speaker: Inna Radzishevsky (Israel)

PS01-26AM-289 NR5A2 COORDINATELY REGULATES HYPOXIA RESPONSE AND METABOLISM IN NEURAL CELLS: IMPLICATIONS FOR NERVOUS SYSTEM-RELATED DISEASES

Speaker: Dimitrios Gkikas (Greece)

PS01-26AM-290 ASYMMETRIC METABOLISM CONTROLS THE DEVELOPING AXON COMPLEXITY IN POST-MITOTIC NEURONS

Speaker: Fumi Suomi (Finland)

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Poster Session 01 - Section 63

PS01-26AM-052 SYNERGISTIC, LONG-TERM EFFECTS OF GLUTAMATE DEHYDROGENASE 1 DEFICIENCY AND MILD STRESS ON COGNITIVE FUNCTION AND MPFC GENE AND MIRNA EXPRESSION

Speaker: Kfir Asraf (Israel)

PS01-26AM-053 BEHAVIORAL ASSESSMENT OF COGNITIVE MODELS OF SCHIZOPHRENIA USING NOVEL MOUSE CANTAB-LIKE TEST BATTERY

Speaker: Konstantin Andrianov (Israel)

PS01-26AM-054 NON-CODING RNA CHANGES IN ADOLESCENT STRESS-EXPOSED FEMALE RATS AND THEIR OFFSPRING

Speaker: Hiba Zaidan (Israel)

PS01-26AM-055 A CNS-ENRICHED MIRNA AS A BIOMARKER FOR MAJOR DEPRESSIVE DISORDER

Speaker: Eren Diniz (Germany)

PS01-26AM-056 NEUID: A NOVEL LNCRNA EXCLUSIVELY EXPRESSED IN THE BRAIN AND CONTROLS NEURONAL FUNCTION AND IDENTITY

Speaker: Ranjit Pradhan (Germany)

PS01-26AM-057 P.T8I-VGLUT3 VARIANT AS A MARKER OF VULNERABILITY TO STRESS IN MICE

Speaker: Stéphanie Daumas (France)
PS01-26AM-058  ELEVATED EXPRESSION OF GLUTAMINOLYSIS-RELATED GENES IN THE PARAHIPPOCAMPAL CORTEX OF SUICIDAL INDIVIDUALS
Speaker: Fanni Dóra (Hungary)

PS01-26AM-059  NEUTRAL SPHINGOMYELINASE MEDIATES THE COMORBIDITY TRIAS OF ALCOHOL ABUSE, MAJOR DEPRESSION AND BONE DEFECTS IN FEMALES
Speaker: Liubov Kalinichenko (Germany)

PS01-26AM-060  UNRAVELLING THE CONTRIBUTION OF GLUA3 SUB-UNIT TO MOUSE BEHAVIOR: FROM AUTOANTIBODIES TO GENE DEPLETION
Speaker: Maria Italia (Italy)

PS01-26AM-061  AGGRESSION CONTROL BY TYPE 2 DIABETES RISK GENE DUSP8
Speaker: Cristina Mencías (Germany)

PS01-26AM-062  A SPECIFIC GPR56/ADGRG1 SPlicing ISOFORM IS ASSOCIATED WITH SUICIDAL BEHAVIOR AND ANTIDEPRESSANT RESPONSE IN MAJOR DEPRESSIVE DISORDER.
Speaker: Montaine Lion (France)

PS01-26AM-063  THE EFFECT OF VITAMIN D DEFICIENCY AND UNPREDICTABLE CHRONIC MILD STRESS ON MEMORY AND HIPPOCAMPAL PLASTICITY IN MIDDLE-AGED MICE
Speaker: Külli Jaako (Estonia)

PS01-26AM-064  THE ROLE OF THE TRANSCRIPTION COACTIVATOR CRTC1 IN NEUROINFLAMMATION AND DEPRESSION
Speaker: İrmak Çabas (Switzerland)

PS01-26AM-065  KETOGENIC DIET BUFFERS BRAIN GENE EXPRESSION AND ETHANOL CONSUMPTION INDUCED BY VICARIOUS SOCIAL DEFEAT EXPOSURE IN FEMALE MICE
Speaker: Marta M Rodríguez Arias (Spain)

PS01-26AM-066  A KEY ROLE OF REGULAR FIRING CELLS FROM CENTRAL AMYGDALA IN MOOD DISORDERS
Speaker: M. Isabel Aller (Spain)

PS01-26AM-067  NEURONAL SMC3 REGULATES WEIGHT, BODY COMPOSITION, AND HORMONAL BALANCE IN PARALLEL WITH SEX-DEPENDENT EFFECTS ON ANXIETY BEHAVIOR
Speaker: Evan Elliott (Israel)

PS01-26AM-068  MK-801 EFFECT ON NEGR1-DEFICIENT MOUSE METABOLOMICS AND POTENTIAL CONNECTIONS TO THE KYNURENINE PATHWAY
Speaker: Carolin Kuuskmäe (Estonia)

PS01-26AM-069  ASTROCYTES PHAGOCYTIC SEXUAL DIMORPHISM FOSTERS MAJOR DEPRESSIVE DISORDER THROUGH MEGF10 DYSFUNCTION
Speaker: Diego Julian Vesga Jimenez (Germany)

PS01-26AM-070  ALTERATION OF MYELIN GENE EXPRESSION IN A MOUSE MODEL FOR GLUT1 DEFICIENCY SYNDROME
Speaker: Daphné Vorburger (Switzerland)

PS01-26AM-071  ID-LINKED LYSINE DEMETHYLASE 1A AND 5C FUNCTIONALLY COLLABORATE TO PREVENT GENE DEREPRESSION AND NEURONAL MALFUNCTION IN ADULT EXCITATORY NEURONS
Speaker: Juan Paraiso (Spain)

PS01-26AM-072  ARC/ARG3.1 EXPRESSION IN GABAERGIC INTERNEURONS AND ITS IMPACT ON ANXIETY- AND DEPRESSION-LIKE BEHAVIORS IN MICE
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PS01-26AM-314  **LTP AND IEG EXPRESSION AT HIPPOCAMPAL SYNAPSES ARE NOT INDUCED BY CELL-AUTONOMOUS CAMP SIGNALLING**
*Speaker: Matthew Roxby (United Kingdom)*

PS01-26AM-315  **SYNAPTIC PRUNING FOLLOWING NMDAR-DEPENDENT LTD PREFERENTIALLY AFFECTS ISOLATED SYNAPSES**
*Speaker: Oana Constantin (Germany)*

PS01-26AM-316  **OPTICAL RECORDING OF UNITARY SYNAPTIC CONNECTIONS BETWEEN CA3 PYRAMIDAL CELLS USING VOLTRON IMAGING**
*Speaker: Eric Hosy (France)*

PS01-26AM-317  **DUAL ROLES OF PIRB ON PRE- AND POSTSYNAPSE IN HIPPOCAMPAL ASYMMETRY**
*Speaker: Janos Szabadics (Hungary)*

PS01-26AM-318  **HOMEOSTATIC PLASTICITY OF HUMAN LAYER 2/3 CORTICAL PYRAMIDAL NEURONS**
*Speaker: Verjinia Metodieva (Germany)*

PS01-26AM-319  **QUANTITATIVE MODELLING OF THE INTRACELLULAR BIOCHEMICAL MECHANISMS UNDERLYING LONG-TERM POTENTIATION IN A CA1 PYRAMIDAL CELL SPINE HEAD**
*Speaker: Gábor Farkas (Hungary)*

PS01-26AM-320  **TIMING-DEPENDENT LTP AT SCHAFFER COLLATERAL-CA1 SYNAPSES EXHIBITS A DORSO-VENTRAL GRADIENT OF GABAERGIC MODULATION IN THE MOUSE HIPPOCAMPUS**
*Speaker: Elke Edelmann (Germany)*

PS01-26AM-321  **LONG-TERM POTENTIATION AT THE MEDIAL PERFORANT PATH-GRANULE CELL SYNAPSE REQUIRES PROTEIN SYNTHESIS**
*Speaker: Ala Alhalholy (United States)*

PS01-26AM-322  **SHORT TERM PLASTICITY OF HIPPOCAMPAL CA1 SYNAPSES FOR DIFFERENT PRESYNAPTIC ACTIVITY PATTERNS**
*Speaker: Sulu Mohan (India)*

PS01-26AM-323  **ADENOSINE AND ASTROCYTES DETERMINE THE DEVELOPMENTAL DYNAMICS OF SPIKE TIMING-DEPENDENT PLASTICITY IN THE SOMATOSENSORY CORTEX**
*Speaker: Antonio Rodriguez-Moreno (Spain)*

PS01-26AM-324  **INTERACTION OF ACTIN DYNAMICS AND SPINE GEOMETRY ACTS AS A SYNAPTIC TAG**
*Speaker: Mitha Thomas (Germany)*

PS01-26AM-325  **INTERROGATING MODULATORY EFFECTS OF CA2 ON THE PERSISTENCE OF CA1 PLASTICITY IN MICE HIPPOCAMPUS**
*Speaker: Mohammad Zaki Bin Ibrahim (Singapore)*

PS01-26AM-326  **SHEDDING LIGHT ON PRESYNAPTIC PLASTICITY: SYNAPTIC PLASTICITY AT COMMISSURAL PROJECTION SYNAPSES IN HIPPOCAMPUS CA1**
*Speaker: Benjamin Rost (Germany)*

PS01-26AM-327  **LONG-TERM POTENTIATION (LTP) REQUIRES ASTROCYTES AND D-SERINE AT ENТОRHINAL CORTEX LIII - CA1 SYNAPSES**
*Speaker: Antonio González Matute (Spain)*

PS01-26AM-328  **THE ROLE OF TENASCIN-C IN THE STRUCTURAL PLASTICITY OF PERINEURONAL NETS AND SYNAPTIC EXPRESSION IN THE MURINE HIPPOCAMPUS**
*Speaker: Ana Jakovljevic (Serbia)*
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PS01-26AM-360  SCIENTIFIC AND PUBLIC OUTREACH OF CELL TYPE TAXONOMY TOOLS
Speaker: Rachel Hostetler (United States)

PS01-26AM-361  HUMAN BRAIN ECM: FROM MORPHOGENETIC ROLE TO SPECIFICATION OF CORTICAL MICROCIRCUITRIES
Speaker: Natasa Jovanov Milosevic (Croatia)

PS01-26AM-362  MACHINE LEARNING-BASED EXPLORATION OF LONG NONCODING RNAs LINKED TO PERIVASCULAR LESIONS IN THE BRAIN
Speaker: Masakazu Umezawa (Japan)

PS01-26AM-363  AN UNBIASED AAV-STARR-SEQ SCREEN REVEALING THE ENHANCER ACTIVITY MAP OF GENOMIC REGIONS IN THE MOUSE BRAIN IN VIVO
Speaker: Ya-Chien Chan (Germany)

PS01-26AM-364  IN OVO RNAI AS AN EFFICIENT TOOL TO EXPLORE MOLECULAR MECHANISMS OF NEURAL CIRCUIT FORMATION IN THE CEREBELLUM OF CHICKEN EMBRYOS
Speaker: Aikaterini (Katerina) Koutourlou (Switzerland)

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PS01-26AM-365  CHARACTERIZATION OF CELL TYPE DISTRIBUTION AND DEVELOPMENT OF MOUSE AREA CENTRALIS
Speaker: Diana Petre (Romania)

PS01-26AM-366  PARTICULARITIES OF DEVELOPPING HUMAN RETINAL GANGLION CELLS COMPARED TO THEIR MURINE ORTHOLOGUES
Speaker: Raluca Pascalau (Romania)

PS01-26AM-367  PUPILLARY DRIVEN BINOCULAR INTEGRATION IN RETINAL GANGLION CELLS
Speaker: Tjasa Lapanja (Italy)

PS01-26AM-368  THE PUPILLARY LIGHT REFLEX DRIVES EVOKED RESPONSES IN RETINAL GANGLION CELLS
Speaker: Pietro Micheli (Italy)

PS01-26AM-369  RETINAL GANGLION CELL TOPOGRAPHY AND SPATIAL RESOLUTION ESTIMATION IN HEDGEHOGS (EULIPOTYPHLA: ERINACEIDAE: ERINACEUS)
Speaker: Martin Glösmann (Austria)

PS01-26AM-370  TOPOGRAPHY OF ROD AND CONE PHOTORECEPTORS IN THE RETINA OF THE EURASIAN RED SQUIRREL (SCIURUS VULGARIS)
Speaker: Alina Scheer (Austria)

PS01-26AM-371  MOUSE RETINAL ROD BIPOLAR CELLS EXPRESS DIFFERENT L-TYPE CA CHANNEL TRANSCRIPTS
Speaker: Elisa Roth (Austria)

PS01-26AM-372  PATHOGENIC CAV1.4 VARIANTS DIFFERENTIALLY AFFECT RETINAL PATHWAYS
Speaker: Matthias Ganglberger (Austria)

PS01-26AM-373  COMPARATIVE ANALYSIS OF BIOPHYSICAL PROPERTIES OF ON-ALPHA SUSTAINED RGCS IN WILD-TYPE AND RD10 RETINA
Speaker: Viktoria Kiraly (Austria)

PS01-26AM-374  INTRINSIC SPIKING PROPERTIES VARY ACROSS DIFFERENT
TYPES OF ALPHA RETINAL GANGLION CELLS
Speaker: Paul Werginz (Austria)

PS01-26AM-375  INFLUENCE OF DENDRITIC MORPHOLOGY ON SPIKE GENERATION IN ALPHA RETINAL GANGLION CELLS
Speaker: David Ernstberger (Austria)

PS01-26AM-376  SUSTAINED MICROGLIA LOSS DURING DEVELOPMENT ALTERS RETINAL GANGLION CELL FIRING DURING ADULTHOOD
Speaker: Natalie Oezgen (Austria)

PS01-26AM-377  INFLUENCE OF DENDRITIC MORPHOLOGY ON SPIKE GENERATION IN ALPHA RETINAL GANGLION CELLS
Speaker: David Ernstberger (Austria)

PS01-26AM-378  SUSTAINED MICROGLIA LOSS DURING DEVELOPMENT ALTERS RETINAL GANGLION CELL FIRING DURING ADULTHOOD
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PS01-26AM-379  INFLUENCE OF DENDRITIC MORPHOLOGY ON SPIKE GENERATION IN ALPHA RETINAL GANGLION CELLS
Speaker: David Ernstberger (Austria)

PS01-26AM-380  SUSTAINED MICROGLIA LOSS DURING DEVELOPMENT ALTERS RETINAL GANGLION CELL FIRING DURING ADULTHOOD
Speaker: Natalie Oezgen (Austria)

PS01-26AM-381  FUNCTIONAL AND MORPHOLOGICAL CHARACTERIZATION OF ZEBRAFISH RETINAL GANGLION CELL SUBTYPES EXPRESSING THE TRANSCRIPTION FACTOR SATB2
Speaker: Ayjan Urazbayeva (Japan)

PS01-26AM-382  MOLECULAR MARKERS OF OCULOMOTOR MOTONEURONS IN ADULT MICE
Speaker: Alonso Cerdeño-Arévalo (Spain)

PS01-26AM-383  VISUAL THALAMUS ADAPTIVE RESPONSE TO IMBALANCE SENSORY INPUT: DECRIPTING MOLECULAR MECHANISMS IN AMBLYOPIA
Speaker: Béatrice Marquèze-Pouey (France)

PS01-26AM-384  THE EARLY LIGHT EXPERIENCE ALTERS STAGE II RETINAL WAVES VIA DOPAMINE-MODULATED PATHWAY IN THE DEVELOPING MOUSE RETINA
Speaker: Bo-Ze Liao (Taiwan)

PS01-26AM-385  EFFECTS OF VEGF AND BDNF ADMINISTRATION ON KCC2 LEVELS IN AXOTOMIZED EXTRAOCULAR MOTONEURONS
Speaker: Jaime Capilla-López (Spain)

PS01-26AM-386  FUNCTIONAL AND MORPHOLOGICAL CHARACTERIZATION OF ZEBRAFISH RETINAL GANGLION CELL SUBTYPES EXPRESSING THE TRANSCRIPTION FACTOR SATB2
Speaker: Ayjan Urazbayeva (Japan)

PS01-26AM-387  MOLECULAR MARKERS OF OCULOMOTOR MOTONEURONS IN ADULT MICE
Speaker: Alonso Cerdeño-Arévalo (Spain)

PS01-26AM-388  VISUAL ACTIVITY ENHANCES NEURONAL EXCITABILITY IN THALAMIC RELAY NEURONS
Speaker: Dominique Debanne (France)

PS01-26AM-389  CHARACTERIZATION OF RETINAL SIGNAL TRANSFORMATION IN THE MOUSE SUPERIOR COLLICULUS
Speaker: Firdaouss Zemmouri (Italy)

PS01-26AM-390  HISTAMINERGIC CIRCADIAN MODULATION OF MOUSE RETINAL OUTPUT IN VIVO
Speaker: Hiroki Asari (Italy)

PS01-26AM-391  REST AS A TARGET FOR VISION RESTORATION
Speaker: Dmytro Shmal (Italy)

PS01-26AM-392  RESTORATIVE POTENTIAL OF CILIARY BODY CELLS IN A RETINAL GANGLION CELL DEGENERATION MODEL
Speaker: Marta Fernandez Nogales (Spain)
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**PS01-26AM-591** - COGNITIVE PERFORMANCE IS ENHANCED BY AEROBIC-STRENGTH TRAINING, AND RELATED TO PHYSICAL FITNESS AND REDUCED PLATINUM LEVELS IN TESTICULAR GERM CELL CANCER SURVIVORS

*Speaker*: Barbara Ukropcova (Slovakia)

**Poster Sessions**

**Poster Session 01 - Section 17**

**PS01-26AM-417** - REPURPOSING POMALIDOMIDE AS A NEUROPROTECTIVE DRUG IN AN ALPHA-SYNUCLEIN-BASED MODEL OF PARKINSON’S DISEASE.

*Speaker*: Michela Etzi (Italy)

**PS01-26AM-418** - DYSREGULATION IN MICROGLIA-RELATED IMMUNE RESPONSES IN COGNITIVE IMPAIRMENT ASSOCIATED WITH PARKINSON’S DISEASE

*Speaker*: Maria Francesca Palmas (Italy)

**PS01-26AM-419** - ROLE OF THE MEDIAL PREFRONTAL CORTEX, STRIATUM AND NUCLEUS ACCUMBENS IN THE EMISSION OF 50-KHZ ULTRASONIC VOCALIZATIONS IN HEMIPARKINSONIAN RATS TREATED WITH DOPAMINERGIC DRUGS

*Speaker*: Jacopo Marongiu (Italy)

**PS01-26AM-420** - PARAQUAT AND 6-HYDROXYPHEMODYLAMINE MODULATE NUCLEOTIDE AND NUCLEOSIDE CATABOLISM IN ZEBRAFISH

*Speaker*: Carla Denise Bonan (Brazil)

**PS01-26AM-421** - ASSESSING THE THERAPEUTIC IMPACT OF A 7-DAY N-ACETYL-L-CYSTEINE TREATMENT IN A PRECLINICAL MODEL OF PARKINSON’S DISEASE: BEHAVIORAL AND MOLECULAR INSIGHTS

*Speaker*: Rita Caridade (Portugal)

**PS01-26AM-422** - BEHAVIOR AND CELLULAR ALTERATIONS IN A PRE-CLINICAL MODEL OF PARKINSON’S DISEASE WITH ABROGATED ADULT HIPPOCAMPAL CYTOGENESIS

*Speaker*: Bruna Araújo (Portugal)

**PS01-26AM-423** - NEUROPROTECTIVE EFFECT OF BICIFADINE, SERTRALINE AND TIAGABINE WITH AUTOPHAGY-INDUCING ACTIVITY IN 6-HYDROXYPHEMODYLAMINE PARKINSON’S MODELS

*Speaker*: Chaemi Lee (Korea, Republic of)

**PS01-26AM-424** - IDENTIFICATION OF SMALL MOLECULAR INHIBITORS TARGETING ATXN1-CIC INTERACTION FOR ALLEVIATING NEUROLOGICAL PATHOGENESIS IN SCA1 CELL MODEL

*Speaker*: Jeewoo Kim (Korea, Republic of)

**PS01-26AM-425** - PHARMACOLOGICAL MODULATION OF NRF2 PATHWAY IN ALPHA-SYNUCLEIN MOUSE MODEL OF PARKINSON’S DISEASE

*Speaker*: Michela Salvadè (Italy)

**PS01-26AM-426** - UNVEILING THE INFLUENCE OF MELANIN ON MORPHOLOGICAL AND FUNCTIONAL STATES OF RAT BRAIN NEURONS IN A ROTENONE-INDUCED PARKINSON’S DISEASE MODEL

*Speaker*: Kristina Nebogova (Armenia)

**PS01-26AM-427** - A PEDF DERIVED PEPTIDE PROTECTS AGAINST SODIUM IODATE-INDUCED FERROPTOSIS IN RETINAL PIGMENT EPITHELIAL CELLS AND RETINAL DEGENERATION IN RATS

*Speaker*: Yeou-Ping Tsao (Taiwan)
PS01-26AM-428 FIGHTING AGAINST PARKINSON'S DISEASE WITH A NEW SGK1 INHIBITOR
Speaker: Isabel Lastres-Becker (Spain)

PS01-26AM-429 EXPLORING THE NEUROPROTECTIVE EFFECTS OF NICOTINE AGAINST MPTP-INDUCED NEURONAL DAMAGE IN MICE: INSIGHTS INTO ANTIOXIDANT SYSTEM
Speaker: Nikoloz Zhgenti (Georgia)

PS01-26AM-430 CHARACTERISATION OF THE NEUROPROTECTIVE EFFECTS OF THE NEW METABOTROPIC GLUTAMATE RECEPTOR 3 POSITIVE ALLOSTERIC MODULATOR AGAINST DOPAMINERGIC DEGENERATION IN PARKINSON'S DISEASE MODELS.
Speaker: Giulia Urone (Italy)

PS01-26AM-431 TARGETING THE T-CELL RESPONSE AS A NOVEL THERAPEUTIC STRATEGY FOR PARKINSON'S DISEASE
Speaker: Federica Maria Conedera (Switzerland)

PS01-26AM-432 INHIBITING DJ-1 OXIDATION REDUCES NEUROFUNCTIONAL DEFICITS AFTER EXPERIMENTAL INTRACEREBRAL HAEMORRHAGE
Speaker: Cuiting Zhang (Hong Kong)

PS01-26AM-433 ACHyrocline Satureioides Protects Against Neuronal Dopaminergic Damage in the Caenorhabditis elegans Model of Parkinson's Disease
Speaker: Patrícia Pereira (Brazil)

PS01-26AM-434 RESCUING DOPAMINERGIC DYSFUNCTION THROUGH E3-UBIQUITIN LIGASE MODULATION IN ENDOPHILIN-A MUTANTS
Speaker: Ana Caulino (Portugal)

PS01-26AM-435 DIFFERENTIAL METABOLISM OF SERINE ENANTIOMERS IN THE STRIATUM OF MPTP-LESIONED MONKEYS AND MICE CORRELATES WITH THE SEVERITY OF DOPAMINERGIC MIDBRAIN DEGENERATION.
Speaker: Marcello Serra (Italy)

PS01-26AM-436 FOXO1 INDUCED BY ALPHA-SYNUCLEIN PREFORMED FIBRILS REGULATES ROS BY EXPRESSING ANTIOXIDANT GENES IN MICROGLIA.
Speaker: Jiyeon Na (Korea, Republic of)

PS01-26AM-437 SYNTHESIS, MOLECULAR DOCKING AND MOTOR FUNCTION ASSESSMENT OF A NOVEL DIARYL PYRROLE COMPOUND FOLLOWING THE UNILATERAL 6-HYDROXYDOPAMINE LESION MODEL IN MALE RATS.
Speaker: Elaheh HaghaniSamani (Iran)

PS01-26AM-438 RESCUING EFFICACY OF COGNITIVE AND MULTIMODAL STIMULATION ON NEUROINFLAMMATION IN TWO MOUSE MODELS OF PARKINSON'S DISEASE
Speaker: Giulia Ponterio (Italy)

PS01-26AM-439 EFFECTS OF COGNITIVE AND MULTIDIMENSIONAL ENRICHMENT ON THE SYNAPTIC IMPAIRMENTS OF THE PINK1 AND ASYN MOUSE MODELS OF PARKINSON'S DISEASE
Speaker: Ilham El Atialias (Italy)

PS01-26AM-440 THERAPEUTIC POTENTIAL OF BDNF AND NEUROSTEROIDS DHEA AND DHEAS IN AN IN VITRO MODEL OF PARKISON'S DISEASE
Speaker: Tina Miloš (Croatia)
PS01-26AM-441 - PHARMACOLOGICAL INHIBITION OF BET PROTEINS HAMPERS ROTENONE-INDUCED OXIDATIVE DAMAGE IN AN IN VITRO MODEL OF PARKINSON’S DISEASE
Speaker: Noemi Martella (Italy)

PS01-26AM-442 - EVALUATION OF THE BIOLOGICAL EFFECTS OF NEAR INFRARED ILLUMINATION AND BIOMARKER RESEARCH ON THE LATE STAGES OF PARKINSON’S DISEASE IN A NOVEL MOUSE MODEL.
Speaker: Marie Vionnet (France)

PS01-26AM-443 - DAD9, A NOVEL AGONIST CONCEPT THAT BREAKS THE LETHAL PARTNERSHIP BETWEEN A-SYNUCLEIN AND DOPAMINE
Speaker: Rosana Chehin (Argentina)

PS01-26AM-444 - THE INTERPLAY BETWEEN MTORC2 AND OXIDATIVE STRESS IN NEUROTOXIC MODELS OF NEURODEGENERATION
Speaker: Marija Jeremic (Serbia)

PS01-26AM-445 - THE NON-ANTIBIOTIC DOXYCYCLINE DERIVATIVE DDOX PRESERVES MOTOR FUNCTION IN A 6-OHDA RAT MODEL OF PARKINSON’S DISEASE.
Speaker: Rita Raisman-Vozari (France)

PS01-26AM-446 - INHIBITION OF NUCLEAR-RETAINED HDAC5 INTERACTOME PREVENTS NEURITE DEGENERATION INDUCED BY A-SYNUCLEIN OVEREXPRESSION.
Speaker: Martina Mazzocchi (Ireland)

PS01-26AM-447 - P2Y1 RECEPTOR PARTICIPATES IN DOPAMINERGIC NEURODEGENERATION IN A RAT MODEL OF PARKINSON’S DISEASE
Speaker: Roberta Andrejew (Brazil)

PS01-26AM-448 - EFFECTS OF AAV-GDNF AND AAV-GDF5 IN AN AAV-A-SYNUCLEIN RAT MODEL OF PARKINSON’S DISEASE
Speaker: Fionnuala Wilson (Ireland)

PS01-26AM-449 - PROTECTIVE EFFECT OF THE MAGNETIC STIMULATION IN 6-OHDA-INDUCED PARKINSON’S DISEASE MODEL IN VITRO
Speaker: Teodora Martić (Serbia)

PS01-26AM-450 - EXERCISE-BASED RESCUE STRATEGIES FOR EARLY STRIATAL SYNAPTIC IMPAIRMENT AND MOTOR ABNORMALITIES CAUSED BY ALPHA-SYNUCLEIN
Speaker: Gioia Marino (Italy)

PS01-26AM-451 - GLUCOCEREBROSIDASE PHARMACOLOGICAL CHAPERONES ATTENUATE A-SYNUCLEIN-INDUCED NEUROTOXICITY IN CHRONIC CORTICO-STRIATAL SLICES
Speaker: Antonino Iurato La Rocca (Italy)

PS01-26AM-452 - INVESTIGATING THE NEUROTOXIC EFFECTS OF PERFLUOROALKYL SUBSTANCES (PFASS) IN HUMAN DOPAMINERGIC NEURONS
Speaker: Saralea Marino (Italy)

PS01-26AM-453 - PHARMACOLOGICAL AND RNAI MEDIATED INHIBITION OF CLASS-IIA HDACs BOTH PROTECT AGAINST DOPAMINERGIC NEURONAL DEGENERATION IN IN VIVO MODELS OF PARKINSON’S DISEASE
Speaker: Adam O’Mahony (Ireland)
PS01-26AM-183  ANALYZING AND MODELING SEEG SIGNALS DURING INTERICTAL TO Ictal TRANSITION IN FOCAL EPILEPSY
Speaker: Mehmet Alihan Kayabas (France)

PS01-26AM-184  INDIVIDUALIZED INTERICTAL EPILEPTIFORM DISCHARGES DETECTOR
Speaker: Mathias Peuvrier (France)

PS01-26AM-185  ANALYSIS OF THE TRANSCRANIAL CURRENT STIMULATION IMPACT ON EPILEPTIC NETWORK ACTIVITY
Speaker: Mariam Al Harrach (France)

PS01-26AM-186  EXPANSION OF EPILEPTOGENIC NETWORKS VIA NEUROPLASTICITY
Speaker: Elif Köksal-Ersöz (France)

PS01-26AM-187  CLINICAL UTILITY OF ADVANCED NEUROIMAGING MODALITIES FOR EPILEPSY SURGERY ASSESSMENT
Speaker: Gavin Winston (Canada)

PS01-26AM-188  LANGUAGE LATERALITY INDICES IN EPILEPSY PATIENTS: A COMPARATIVE ANALYSIS OF FOUR PIPELINES
Speaker: Andrea Ellsay (Canada)

PS01-26AM-189  RELATION OF TOPOLOGICAL PATTERNS OF BRAIN NETWORK WITH COGNITIVE PHENOTYPES IDENTIFIED BY ROBOTIC ASSESSMENT IN PATIENTS WITH TEMPORAL LOBE EPILEPSY
Speaker: Karla Batista Garcia-Ramo (Canada)

PS01-26AM-190  IMPAIRED CARDIORESPIRATORY RESPONSES TO HYPERCAPNIA IN A CHRONIC MODEL OF TEMPORAL LOBE EPILEPSY
Speaker: Ayse Dereli (Belgium)

PS01-26AM-191  MODULATION OF VAGUS NERVE ACTIVITY DURING SPONTANEOUS RECURRENT SEIZURES IN THE KAINIC ACID MODEL OF TEMPORAL LOBE EPILEPSY.
Speaker: Elena Acedo Reina (Belgium)

PS01-26AM-192  HIGH-DENSITY EEG IN THE PILOCARPINE MODEL OF TEMPORAL LOBE EPILEPSY: A POWER SPECTRUM ANALYSIS OF TONIC-CLONIC SEIZURES
Speaker: Beatrice Casadei Garofani (Italy)

PS01-26AM-193  UNIQUE FREQUENCY AND EXCITABILITY CHARACTERISTICS SEEN FOR 5-9 HZ OSCILLATIONS PRECEDING ABSENCE SEIZURES
Speaker: Eleni Nikalexii (Germany)

PS01-26AM-194  NOVEL BIOMARKER OF SEIZURE ONSET ZONE BASED ON GRANGER CAUSALITY
Speaker: Caleb Kugel (United States)

PS01-26AM-195  ELECTROPHYSIOLOGICAL CORRELATES OF NEUROACTIVE STEROIDS TREATMENT IN THE PERINATAL FOCAL CEREBRAL ISCHEMIA MODEL IN IMMATURE RATS
Speaker: Iqra Bano Chandio (Czech Republic)

PS01-26AM-196  EXCITATORY-INHIBITORY BALANCE ASSESSED BY APERIODIC COMPONENT AND ITS CORRELATION WITH PAIRED-PULSE INHIBITION IN THE PRIMARY SOMATOSENSORY CORTEX: AN MEG STUDY
Speaker: Naofumi Otsuru (Japan)

PS01-26AM-197  COMPARISON OF SYNTHSEG PERFORMANCE BETWEEN 3T AND 7T MRI IN MR-NEGATIVE EPILEPSY
Speaker: Haniye Shayeste (Austria)
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**Poster Sessions**

*09:30 - 13:00*

**Poster Session 01 - Section 173**

| PS01-26AM-330| NEUROPROTECTIVE EFFECTS INDUCED BY NR2A-CB1R AND NR2B-CB1R COMPLEXES IN ALZHEIMER'S DISEASE                                                   | Joan Biel Rebassa Palou (Spain) |
| PS01-26AM-331| $A_{2A}$R-CB$_2$R AS A NEW TARGET TO MODULATE                                                                                            |                                |
**NEUROINFLAMMATION**

*Speaker: Antonio Capó Quetglas (Spain)*

PS01-26AM-332  **MOLBOOLEAN STAINING REVEALS HIGH PROPORTION OF D$_2$ RECEPTORS FORMING A$_{2A}$-D$_2$ HETEROMERS IN STRIATAL NEURONS OF MPTP-LESIONED PARKINSONIAN PRIMATES**

*Speaker: Rafael Rivas-Santisteban (Spain)*

PS01-26AM-333  **NEUROPROTECTIVE EFFECTS OF CANNABIDIOL: SHIFTING MICROGLIA PHENOTYPE AND PREVENTING NEURONAL DEATH IN A NEONATAL HYPOXIA-ISCHEMIA MODEL.**

*Speaker: Jaume Lillo Jové (Spain)*

PS01-26AM-334  **CANNABIDIOL AT NANOMOLAR CONCENTRATIONS NEGATIVELY AFFECTS SIGNALING THROUGH THE ADENOSINE A$_{2A}$ RECEPTOR**

*Speaker: Iu Raïch (Spain)*

PS01-26AM-335  **CB$_1$R ACTIVATION DECREASE NMDA INDUCED NEUROTOXICITY IN APPSW/IND MICE MODEL OF AD**

*Speaker: Gemma Navarro Brugal (Spain)*

PS01-26AM-336  **THE EXPRESSION AND FUNCTIONALITY OF CB$_1$R-NMDAR COMPLEXES ARE DECREASED IN PARKINSON’S DISEASE MODELS.**

*Speaker: Irene Reyes-Resina (Spain)*

PS01-26AM-337  **EXPLORING THE CONTRIBUTION OF BRI2 EXPRESSION AND PROTEOLYTIC PROCESSING ON NEURONAL DIFFERENTIATION**

*Speaker: Filipa Martins (Portugal)*

PS01-26AM-338  **CHRONIC POTENTIATION OF METABOTROPIC GLUTAMATE RECEPTOR 2 WITH A NANobody ACCELERATES AMYLOIDOGENESIS IN ALZHEIMER’S DISEASE.**

*Speaker: Pierre-Andre Lafon (China)*

PS01-26AM-339  **ADMINISTRATION OF A TNF RECEPTOR 2 AGONIST IMPROVES NEUROPATHOLOGY AND COGNITIVE FUNCTIONS IN AN ALZHEIMER’S DISEASE MODEL**

*Speaker: Natalia Ortí Casañ (Netherlands)*

PS01-26AM-340  **CANNABINOID CB$_1$ RECEPTORS IN OLIGODENDROCYTES: MODULATION OF ENERGY METABOLISM AND AUTOIMMUNE DEMYELINATION**

*Speaker: Ester Sanchez (Spain)*

PS01-26AM-341  **A NOVEL PRO-NEUROGENIC THERAPEUTIC APPROACH FOR ALZHEIMER’S DISEASE BASED ON BRI2 PROTEOLYTIC FRAGMENTS**

*Speaker: Sandra Rebelo (Portugal)*

PS01-26AM-342  **POTENTIAL STRATEGY FOR THE THERAPEUTIC REGULATION OF THE ENDOCANNABINOID SYSTEM WITH INTERFERING PEPTIDES THAT MODULATE SGIP1 BINDING.**

*Speaker: Alexandra Fletcher-Jones (United Kingdom)*

PS01-26AM-343  **IMPORTANCE OF GLIAL CB1R IN THE REGULATION OF NEUROMUSCULAR REPAIR.**

*Speaker: Sophie Charron (Canada)*

PS01-26AM-344  **GENETIC DELETION OF ASTROCYTIC CALCINEURIN B1 PREVENTS COGNITIVE IMPAIRMENT AND NEUROPATHOLOGY DEVELOPMENT IN ACUTE AND CHRONIC MOUSE MODELS OF ALZHEIMER’S DISEASE**

*Speaker: Giulia Dematteis (Italy)*

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<td>Loussineh Keshishian (France)</td>
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<td>Eleni Ioanna Moysiadou (France)</td>
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<td>Pin-Huan Lai (Taiwan)</td>
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<td>Wei-Chen Hung (Taiwan)</td>
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<td>Arthur Laja (Germany)</td>
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<td>Josue Haubrich (Germany)</td>
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<td>Teresa Tommasini (Germany)</td>
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<td>Krista Wahlstrom (United States)</td>
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Speaker: Marianna Constantinou (United Kingdom)

PS01-26AM-155  FACILITATING MEMORY CONSOLIDATION THROUGH LIGHT EXERCISE: THE ROLE OF THE COERULEO-HIPPOCAMPAL DOPAMINERGIC PATHWAY
Speaker: Taichi Hiraga (Japan)

PS01-26AM-156  CHEMOGENETIC ACTIVATION OF THE LOCUS COERULEUS INCREASES HIPPOCAMPAL NORADRENALINE LEVELS LEADING TO MODULATION OF HIPPOCAMPAL EXCITABILITY
Speaker: Sielke Caestecker (Belgium)

PS01-26AM-157  AGE-RELATED DIFFERENCES IN PUPIL DYNAMICS ASSESSED WITH COGNITIVE PUPILLOMETRY.
Speaker: Adrian Ruiz Chiapello (France)

PS01-26AM-158  CHOLINERGIC NEUROMODULATION OF PROCESSING SENSORY AND REINFORCEMENT SIGNALS
Speaker: Natalia Babushkina (Germany)

PS01-26AM-159  NORADRENERGIC MODULATION OF THE PERIRHINAL NETWORK
Speaker: Léa Salette (Netherlands)

PS01-26AM-160  BRAIN ACTIVATION PATTERNS DURING MEMORY PROCESSES MEASURED WITH FUNCTIONAL MAGNETIC RESONANCE IMAGING ARE ASSOCIATED WITH HUMAN SEROTONIN-1A RECEPTOR IN VIVO
Speaker: Matej Murgaš (Austria)

PS01-26AM-161  POSSIBLE INTERACTION BETWEEN NORADRENERGIC TRANSMISSION IN THE BASOLATERAL AMYGDALA AND DOPAMINERGIC TRANSMISSION IN THE HIPPOCAMPUS IN THE MODULATION OF INITIAL MEMORY CONSOLIDATION
Speaker: Bogomil Peshev (Bulgaria)

Poster Sessions
09:30 - 13:00

Poster Session 01 - Section 133

PS01-26AM-391  PLASTICITY OF FUNCTIONAL CONNECTIVITY MAPS AT GRANULE CELL TO PURKINJE CELL SYNAPSES IN MICE CEREBELLUM
Speaker: Jérôme Wandhammer (France)

PS01-26AM-392  SHORT-TERM PLASTICITY PROFILES DIVERSITY OF EXCITATORY INPUTS ON CEREBELLAR NUCLEI NEURONS
Speaker: Anthime Perrot (France)

PS01-26AM-393  DISENTANGLING THE SPATIAL ORGANIZATION OF THE MOSSY FIBER TO GRANULE CELL SYNAPSE IN THE CEREBELLAR CORTEX
Speaker: Alice Basile (France)

PS01-26AM-394  DISENTANGLING ERROR SIGNALS IN PURKINJE CELL DENDRITIC ACTIVITY FROM THEIR PRE-SYNAPTIC CLIMBING FIBER INPUTS DURING SENSORY ASSOCIATION AND ADAPTIVE MOTOR LEARNING
Speaker: Irina Scheer (Switzerland)

PS01-26AM-395  NEURONAL ENCODING OF FORELIMB PROPRIOCEPTION IN THE MOUSE SOMATOSENSORY CORTEX AND CEREBELLUM
Speaker: Mélanie Palacio Manzano (Switzerland)
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<th>COORDINATED INTERNEURON PREPARATORY ACTIVITY FACILITATES OPTIMAL MOTOR TIMING</th>
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<td>Speaker: Cedric Galetzka (Japan)</td>
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<th>PS01-26AM-409</th>
<th>TWO-DIMENSIONAL ADAPTIVE CONTROL OF SACCADES BY THE CEREBELLAR PURKINJE CELLS</th>
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<td>Speaker: Juliana Silva de Deus (Japan)</td>
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<th>INVESTIGATING INPUT-OUTPUT COMPUTATIONS OF PURKINJE NEURON DENDRITES IN VIVO</th>
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<td>Speaker: Christopher Roome (Japan)</td>
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<th>PS01-26AM-411</th>
<th>STUDY OF SUPERIOR COLLICULUS TO THE INFERIOR OLIVE PATHWAY IN MICE</th>
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<th>UNRAVELLING THE FUNCTIONAL DIVERSITY OF GRANULE CELLS</th>
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### Scientific programme

**IN THE CEREBELLAR CORTEX**

*Speaker:* Christopher Small (France)

**PS01-26AM-413** REVEALING THE ROLE OF CERVICAL VENTRAL SPINAL INTERNEURONS PROJECTING TO THE CEREBELLUM IN MOTOR LEARNING AND CONTROL.

*Speaker:* Sofia Pimpinella (United States)

**PS01-26AM-414** MOLECULAR IDENTITY OF PURKINJE CELLS Dictates THEIR ACTIVITY DURING A LEARNED COMPLEX MOVEMENT

*Speaker:* Martijn Schonewille (Netherlands)

**PS01-26AM-415** MAPPING CEREBELLAR MOTOR AND COGNITIVE DEFICITS AFTER TUMOR RESECTION IN CHILDREN.

*Speaker:* Marina Veyrie (France)

**PS01-26AM-416** CEREBELLAR NEURONAL ACTIVITY DURING EMOTIONAL CONTROL AND THE ROLE OF CEREBELLAR-MPFC PATHWAY IN FEAR LEARNING

*Speaker:* Camilla Ciapponi (Italy)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 01 - Section 2**

**PS01-26AM-515** WHAT DOES MY NETWORK LEARN? ASSESSING THE INTERPRETABILITY OF DEEP LEARNING FOR NEURAL SIGNALS

*Speaker:* Pinar Göktepe-Kavis (Switzerland)

**PS01-26AM-516** EXPLORING THE EFFECTS OF NORMATIVE NETWORK MODEL CHARACTERISTICS ON PREDICTING CORTICAL RESPONSES

*Speaker:* Sebastian Klavinsks-Whiting (United Kingdom)

**PS01-26AM-517** DESCRIBING NEURAL ENCODING FROM LARGE-SCALE BRAIN RECORDINGS: A DEEP LEARNING MODEL OF THE CENTRAL AUDITORY SYSTEM

*Speaker:* Fotios Drakopoulos (United Kingdom)

**PS01-26AM-518** AN EXPLAINABLE DEEP LEARNING MODEL FOR THE IDENTIFICATION OF LAYERS AND AREAS IN THE PRIMATE CEREBRAL CORTEX

*Speaker:* Piotr Majka (Poland)

**PS01-26AM-519** ENHANCING HYPOTHESIS TESTING VIA INTERPRETABLE MACHINE LEARNING FRAMEWORKS

*Speaker:* David Steyrl (Austria)

**PS01-26AM-520** DIVFREQBERT : ENCODING DISTINCT FREQUENCY RANGES OF BRAIN DYNAMICS BASED ON THE COMPLEXITY OF THE BRAIN

*Speaker:* Sangyoon Bae (Korea, Republic of)

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**Poster Session 01 - Section 42**

**PS01-26AM-230** ERYTHROPOIETIN RESTRAINS THE INHIBITORY POTENTIAL OF INTERNEURONS IN THE MOUSE HIPPOCAMPUS.

*Speaker:* Yasmina Curto (Germany)

**PS01-26AM-231** TOLERABILITY AND FIRST HINTS FOR POTENTIAL EFFICACY OF MOTOR-COGNITIVE TRAINING UNDER INSPIRATORY HYPOXIA IN HEALTH AND NEUROPSYCHIATRIC DISORDERS

*Speaker:* Svea-Solveig Mennen (Germany)
PS01-26AM-232  ZBTB20 HAPLOINSUFFICIENCY CAUSES AUTISM-LIKE BEHAVIOR IN MICE AND CAN PARTIALLY BE IMPROVED BY ERYTHROPOIETIN
Speaker: Martin Hindermann (Germany)

PS01-26AM-233  EFFECTS OF ERYTHROPOIETIN (EPO) ON THE TRANSCRIPTOME OF THE OLIGODENDROCYTE LINEAGE
Speaker: Vinicius Daguano Gastaldi (Germany)

PS01-26AM-234  OXYTOCIN DECREASES NEUROINFLAMMATION AFTER NEONATAL HYPOXIA-ISCHEMIA
Speaker: Gabriel Schirmbeck (Switzerland)

PS01-26AM-235  INHIBITING GPR17 CORRECTS MYELINATION DEFECTS ASSOCIATED WITH NEONATAL HYPOXIA IN MICE
Speaker: Sophie Eckl (United States)

PS01-26AM-236  THE BENEFITS OF SIMULTANEOUS HYPERBARIC OXYGEN THERAPY AND ANTIOXIDANT SUPPLEMENTATION IN THE MANAGEMENT OF ANXIgenic RESPONSE TO THERMAL SKIN INJURY IN RATS
Speaker: Dragica Selakovic (Serbia)

PS01-26AM-237  TRPM4 BLOCKING ANTIBODY IN NEUROLOGICAL DISORDERS
Speaker: Ping Liao (Singapore)

PS01-26AM-238  DEVELOPMENT AND COMPARISON OF NATURAL AND SYNTHETIC CURCUMIN NANOCARRIERS IN NEONATAL HYPOXIA-ISCHEMIA
Speaker: Dipa Begum (United Kingdom)

PS01-26AM-239  THERMOREGULATORY GABAERGIC VLPOA NEURONS INDUCE NEUROPROTECTION AFTER STROKE VIA A HYPOTHALAMIC PATHWAY
Speaker: Buse Balaban (Turkey)

PS01-26AM-240  OXYTOCIN AS A NOVEL THERAPEUTIC TARGET TO REDUCE NEUROINFLAMMATION AND PROTECT BRAIN DEVELOPMENT FOLLOWING PEDIATRIC TRAUMATIC BRAIN INJURY.
Speaker: Marit Knoop (Switzerland)

PS01-26AM-241  CHROMATIN ACCESSIBILITY IN OLIGODENDROCYTE PRECURSORS PROFILED BY ATACSEQ: NEUROPROTECTIVE EFFECTS OF MGSO4 AND 4-PBA ALONE OR ASSOCIATED IN A MOUSE MODEL OF ENCEPHALOPATHY OF PREMATURITY
Speaker: Le Ray Marie-Anne (France)

PS01-26AM-242  GROWTH HORMONE ASSAY AND HISTOLOGICAL CHANGES IN THE PITUITARY GLAND OF EXPERIMENTALLY INDUCED JUVENILE HYDROCEPHALIC RATS
Speaker: Omowumi Femi-Akinlosotu (Nigeria)

PS01-26AM-243  CLEMASTINE-INDUCED MYELINATION PROMOTES MOTOR RECOVERY IN THE NEONATAL HYPOXIC ISCHEMIA RAT.
Speaker: Taichi Goto (Japan)

PS01-26AM-244  PROGESTERONE'S NEUROPROTECTIVE EFFECTS IN THE PREFRONTAL CORTEX OF RATS SUBJECTED TO PERMANENT BILATERAL COMMON CAROTID ARTERY OCCLUSION
Speaker: Ivana Guševac Stojanović (Serbia)

PS01-26AM-245  PROGESTERONE ALLEVIATES NEUROLOGICAL DEFICIT AND STRIATAL ECTONUCLEOTIDASE ACTIVITIES AFTER CEREBRAL HYPOPERFUSION IN RATS
Speaker: Katarina Bobić (Serbia)
PS01-26AM-246  THE HYPOTHERMIA PUZZLE: DECODING ITS MOLECULAR EFFECTS
Speaker: Kattri-Liis Eskla (Estonia)

PS01-26AM-247  A NOVEL RAT PUP MODEL THAT RECAPITULATES THE CLINICAL PHENOTYPE OF INTRAVENTRICULAR HEMORRHAGE-INDUCED HYDROCEPHALUS IN HUMAN PRETERM NEONATES
Speaker: Kwang Min Kim (Korea, Republic of)

PS01-26AM-248  NEUROPROTECTIVE STRATEGIES WITH NEUROTROPHIC FACTORS AGAINST SELECTIVE NEURONAL LOSS
Speaker: David Diaz (Spain)

PS01-26AM-249  NEUROPROTECTIVE EFFECTS OF MATERNAL BOVINE LACTOFERRIN ADMINISTRATION ASSOCIATED TO HYPOTHERMIA FOLLOWING BRAIN HYPOXIA-ISCHEMIA IN RATS
Speaker: Eduardo Sanches (Switzerland)

Poster Sessions
09:30 - 13:00

Poster Session 01 - Section 169

PS01-26AM-475  SPARSE STRESS-RESPONSIVE NEURONS PREDOMINATE THE PATHOGENESIS OF DEPRESSION-LIKE STATE
Speaker: Yiyan Dong (China)

PS01-26AM-476  GREEN LIGHT EXERTS ANTINOCICEPTIVE AND ANXIOLYTIC EFFECTS VIA VISUAL-SOMATOSENSORY CIRCUITS
Speaker: Peng Cao (China)

PS01-26AM-477  INVESTIGATING EMBODIED MIND-WANDERING DURING A NATURALISTIC ANXIETY-INDUCING FILM
Speaker: Trupthi Karanth Ramadeva (Germany)

PS01-26AM-478  FINGERPRINTS OF PSYCHIATRIC SYMPTOMS IN THE STOMACH-BRAIN AXIS
Speaker: Leah Banallis (Denmark)

PS01-26AM-479  AFFECTIVE EXPECTATIONS ARE MODULATED BY THE INTERPLAY BETWEEN VISCERAL SIGNALS AND UNCERTAINTY OF THE SENSORY ENVIRONMENT
Speaker: Alexandrina Vasiliichi (Germany)

PS01-26AM-480  TEST-RETEST RELIABILITY IN THE EFFORT LEARNING TASK
Speaker: Melina Vejlø (Denmark)

PS01-26AM-481  AIRWAY MANIPULATIONS OF RESPIRATORY-MODULATED BRAIN OSCILLATIONS IN HUMANS
Speaker: Malte Brændholt (Denmark)

PS01-26AM-482  EMOTION REGULATION ACROSS DIMENSIONS OF EMOTIONAL RESPONSE: A MULTIMODAL COMPARISON OF EMOTION REGULATION STRATEGIES
Speaker: Lara Oblak (Slovenia)

PS01-26AM-483  INDIVIDUAL DIFFERENCES IN SPATIAL WORKING MEMORY STRATEGIES DIFFERENTIALLY REFLECTED IN THE ENGAGEMENT OF CONTROL AND DEFAULT BRAIN NETWORKS
Speaker: Nina Purg Suljić (Slovenia)

PS01-26AM-484  BEHAVIOURAL HYPERSENSITIVITY TO CO₂ IS ASSOCIATED WITH INCREASED ENGAGEMENT OF THE INSULA IN SUBJECTS WITH HIGH TRAIT ANXIETY
Speaker: Simone Sartori (Austria)
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<td>MODULATORY ROLE OF THE NEUROPEPTIDE VIP IN THE CENTRAL AMYGDALA ON STRESS AND ANXIETY FUNCTION IN MICE</td>
<td>Federico Ferro (Austria)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-486</td>
<td>NEURONAL CORRELATES OF INCREASED BEHAVIORAL INHIBITION BY INTEROCEPTIVE STIMULATION IN A MOUSE MODEL OF AUTISM SPECTRUM DISORDER</td>
<td>Nino Kobakhidze (Austria)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-487</td>
<td>PRECONSCIOUS FEAR-LIKE STIMULI AFFECT OVERT AND COVERT EMOTIONAL CONSCIOUS PROCESSING</td>
<td>Sergio Frumento (Italy)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-488</td>
<td>EFFECTS OF ANTICIPATORY THREAT CONDITIONING ON NEUROBIOLOGICAL MARKERS</td>
<td>Faissal Sharif (United Kingdom)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-489</td>
<td>SELF-REPORTED COGNITIVE CONFIDENCE AND NEGATIVE BELIEFS ABOUT THINKING PREDICT METACOGNITIVE SENSITIVITY IN A PILOT TRANSCRANIAL DIRECT CURRENT STIMULATION (TDCS) EXPERIMENT</td>
<td>Daniele Saccenti (Italy)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-490</td>
<td>SLOW-PACED BREATHING REDUCED PERCEPTUAL SENSITIVITY TO FACIAL EXPRESSION</td>
<td>Shen-Mou Hsu (Taiwan)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-491</td>
<td>NEURAL DYNAMICS OF MOOD-INFLUENCED DRIVING USING FMRI: CONNECTIVITY PATTERNS AND SPEED VARIATIONS</td>
<td>Sama Rahnemayan (Iran)</td>
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<td>PS01-26AM-492</td>
<td>EVENT-RELATED BRAIN POTENTIALS REVEAL MATH ANXIETY EFFECTS IN A NUMERICAL GO/NOGO TASK</td>
<td>María Isabel Núñez-Peña (Spain)</td>
<td>09:30 - 09:30</td>
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<td>OXYGEN IN MOTION: ANXIETY-RELATED CHANGES IN OXYGEN LEVELS WITHIN THE VENTRAL HIPPOCAMPUS OF RATS</td>
<td>Zoi Balla (Germany)</td>
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<td>PS01-26AM-494</td>
<td>THE ROLE OF AFFECT SHARING IN OBSERVATIONAL FEAR LEARNING: COMPARING SKIN CONDUCTANCE, PUPIL SIZE AND FMRI DATA</td>
<td>Alexa Müllner-Huber (Austria)</td>
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<td>PS01-26AM-495</td>
<td>UNDERSTANDING TRAIT ANXIETY THROUGH FORAGING DECISION</td>
<td>Peeusa Mitra (India)</td>
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<td>UNRAVELING HUMAN ESCAPE PLANNING: THE IMPACT OF ENVIRONMENTAL CUES ON ESCAPE BEHAVIOR IN VR</td>
<td>Lukas Kornemann (Germany)</td>
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<td>MEDIAL ANTERIOR PREFRONTAL CORTEX STIMULATION DOWN-REGULATES IMPLICIT REACTIONS TO THREATS AND PREVENTS THE RETURN OF FEAR</td>
<td>Eugenio Manassero (Italy)</td>
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<td>PS01-26AM-498</td>
<td>GENDER DIFFERENCES IN ESTIMATES OF ONE'S OWN BODY SIZE DEPENDING ON % BODY FAT AND SELF-COMPASSION.</td>
<td>Anna Yamamotova (Czech Republic)</td>
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<td>PS01-26AM-499</td>
<td>THE ROLE OF HYPNOTIZABILITY IN INTEROCEPTIVE PROCESSING: HEARTBEAT-EVOKED CORTICAL POTENTIAL STUDY AT REST AND DURING A HEARTBEAT COUNTING TASK</td>
<td>Žan Zelič (Italy)</td>
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<td>PS01-26AM-500</td>
<td>NEUROPHYSIOLOGICAL CORRELATES OF HYPNOSIS: INDUCTION AND ARM-RIGIDITY</td>
<td>Juliette Gelebart (France)</td>
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<td>PS01-26AM-501</td>
<td>CINGULATE MICROSTIMULATION INDUCES NEGATIVE BIAS VIA DAMPENED TOP-DOWN COGNITIVE INFLUENCE ON PRIMATE LIMBIC NETWORK</td>
<td>Satoko Amemori (Japan)</td>
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<td>PS01-26AM-502</td>
<td>PSYCHOPHYSIOLOGICAL CORRELATES OF SOCIAL INTERACTIONS: IMPLICATIONS FOR SOCIAL ANXIETY</td>
<td>Lucia De Francesco (Italy)</td>
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<td>PS01-26AM-503</td>
<td>SELF-PRODUCED BODILY ACTIONS AND RHYTHMS MODULATE FEAR IN HUMANS</td>
<td>Maria Alemany (Japan)</td>
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<td>PS01-26AM-504</td>
<td>ASSESSING THE EFFECTS OF MINDFUL BREATHING ON LEARNING AND EMOTIONS IN PRIMARY SCHOOL STUDENTS</td>
<td>ASTRID SCHMIED (Singapore)</td>
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<td>PS01-26AM-505</td>
<td>ASSESSMENT OF STUDENTS' QUALITY OF LIFE AND ATTENTIONAL STABILITY IN EMERGENCY SITUATIONS</td>
<td>Sirine Shogheryan (Armenia)</td>
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<td>SOCIAL ANXIETY AND EMPATHY FOR PAIN DEPENDENT ON PERSPECTIVE TAKEN - ERP STUDY</td>
<td>Izabela Chatalkiewicz (Poland)</td>
<td>09:30 - 09:30</td>
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<td>BRAIN NETWORKS UNDERLYING BRIEF COGNITIVE INTERVENTIONS TO REDUCE ANXIETY</td>
<td>Charlotte Cuffley (United Kingdom)</td>
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<td>PS01-26AM-508</td>
<td>MORAL INFERENCE UNDER STRESS</td>
<td>Stefan Schulreich (Austria)</td>
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<td>PS01-26AM-509</td>
<td>RUMINATIVE STRESS: HOW REPETITIVE THOUGHTS AND STRESS INTERACT IN AN EXPERIMENTAL SETTING</td>
<td>Lea Schenk (Austria)</td>
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<td>PS01-26AM-510</td>
<td>DESIGNING A THIRD PLACE IN URBAN UNDERGROUND SPACE</td>
<td>Jie Wang (Korea, Republic of)</td>
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<td>PS01-26AM-511</td>
<td>INTEROCEPTIVE PROCESSING IN THE STANDING POSITION IS ATTENUATED COMPARED TO THE SITTING POSITION</td>
<td>Mayu Dohata (Japan)</td>
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<td>PS01-26AM-512</td>
<td>HOSTILE BIASES ASSESSMENT BATTERY</td>
<td>Tomasz Walkiewicz (Poland)</td>
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<td>PS01-26AM-513</td>
<td>RELATIONSHIPS BETWEEN TRACE ELEMENTS AND COGNITIVE BEHAVIORS IN DIFFERENT STRAINS OF RATS;SPRAGUE DAWLEY: SWIFT LEARNERS, YET SENSITIVE SOULS</td>
<td>Ekin Döngel Dayanç (Turkey)</td>
<td>09:30 - 09:30</td>
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<td>PS01-26AM-514</td>
<td>ALTERATIONS OF SPECIFIC METABOLITES DURING EPILEPTOGENESIS IN PLASMA OF RATS WITH LITHIUM-PILOCARPINE-INDUCED TEMPORAL LOBE EPILEPSY</td>
<td>Fatma Merve Antmen (Turkey)</td>
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**Poster Sessions**
09:30 - 13:00

**Poster Session 01 - Section 47**

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<td>CELLULAR AND CIRCUIT DIVERSITY WITHIN SPINY PROJECTION</td>
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NEURON POPULATIONS IN THE POSTNATAL STRIATUM ARISES FROM DISTINCT EMBRYONIC PROGENITOR POOLS

**Speaker:** Jack Gordon (United Kingdom)

**PS01-26AM-212** INVESTIGATING THE ROLE FOR THE NEUROMODULATOR HISTAMINE IN THE DEVELOPMENT OF THE BED NUCLEUS OF THE STRIA TERMINALIS (BNST)

**Speaker:** Yasmin Cras (Belgium)

**PS01-26AM-213** EFFECTS OF EARLY EXPOSURE TO NMDA RECEPTOR NR1-SPECIFIC ANTIBODIES ON THE DEVELOPING MOUSE STRIATUM

**Speaker:** Danijela Bataveljic (Belgium)

**PS01-26AM-214** TET2-MEDIATED REGULATION OF GENOMIC IMPRINTING IN ADULT NEURAL STEM CELLS

**Speaker:** Laura Lázaro-Carot (Spain)

**PS01-26AM-215** GENE EXPRESSION ALTERATIONS IN THE HIPPOCAMPUS OF A MURINE MODEL OF PRADER-WILLI SYNDROME

**Speaker:** Esteban Jiménez-Villalba (Spain)

**PS01-26AM-216** IN VIVO XENOTRANSPLANTATION OF PATIENT IPSC-DERIVED NEURONS IN MECP2 NEURODEVELOPMENTAL DISORDERS

**Speaker:** Nona Merckx (Belgium)

**PS01-26AM-217** REGULATORY ROLES OF MITOCHONDRIA AND METABOLISM IN HUMAN AND MOUSE NEUROGENESIS

**Speaker:** Isabel Maria Gallego Lopez (Belgium)

**PS01-26AM-218** UNRAVELING MOUSE STRIATAL DEVELOPMENT FROM EMBRYONIC TO POSTNATAL STAGES

**Speaker:** Olga Varea (Spain)

**PS01-26AM-219** TRIP6 REGULATES NEURAL STEM CELL MAINTENANCE THROUGH THE NOTCH PATHWAY IN THE POSTNATAL MAMMALIAN SUBVENTRICULAR ZONE

**Speaker:** Chia Chi Chung (Taiwan)

**PS01-26AM-220** MULTIPOTENT PROGENITORS INSTRUCT ONTOGENY OF THE SUPERIOR COLLICULUS

**Speaker:** Giselle Cheung (Austria)

**PS01-26AM-221** DETERMINING THE TEMPORAL TRAJECTORIES OF THALAMIC CELLULAR SPECIFICATION

**Speaker:** Lorenzo Puche Aroca (Spain)

**PS01-26AM-222** CHARACTERIZATION OF VENTRAL FOREBRAIN ORGANOID DERIVED FROM HUMAN INDUCED PLURIPOTENT STEM CELLS

**Speaker:** Michael Gordon (United States)

**PS01-26AM-223** UNRAVELLING THE MECHANISMS BEHIND DEVELOPMENT OF QUIESCENT NEURAL STEM CELLS- THE ROLE OF PRESENILIN 1

**Speaker:** Surya Suresh (India)

**PS01-26AM-224** THE ROLE OF MATERNAL AND PATERNAL GENOMES IN NEURONAL NETWORK ASSEMBLY, DYNAMICS, AND CIRCADIAN RHYTHMS

**Speaker:** Alessia Polito (Italy)

**PS01-26AM-225** A MOUSE MODEL TO EXPLORE CLONAL EVOLUTION IN FAST-PROLIFERATING NEURONAL PROGENITOR CELLS DURING EARLY NEURODEVELOPMENT

**Speaker:** Giulia Di Muzio (Germany)

**PS01-26AM-226** ESTABLISHMENT OF ANIMAL CELL LINES TO DETECT...
CIRCADIAN RHYTHM GENE EXPRESSION VIA CRISPR-CAS9
Speaker: Hong Jun Lee (Korea, Republic of)

PS01-26AM-227 RING1B CONTROL OF FATE SPECIFICATION AND RE-
SPECIFICATION IN ADULT-BORN NEURONS
Speaker: Diana Manzano Franco (Spain)

PS01-26AM-228 REGULATORY NETWORK OF FOREBRAIN DEVELOPMENT
MODELED IN ORGANOIDS REVEALS KEY FACTORS ASSOCIATED
WITH EXCITATORY NEURONS IMBALANCE IN IDIOPATHIC
AUTISM
Speaker: Alexandre Jourdon (United States)

PS01-26AM-229 ELUCIDATING DISTINCTIVE ROLES OF HIPPO PATHWAY
MEMBERS YAP AND TAZ IN HUMAN IN VITRO NEUROGENESIS
Speaker: Anna Maria Ernst (Austria)

Poster Sessions
09:30 - 13:00

Poster Session 01 - Section 116

PS01-26AM-570 THE HYPOXIA-INDUCIBLE FACTOR 1ALPHA AND PRIMARY CILIA
- A FUNCTIONAL ANALYSIS OF THE INTERPLAY IN NEURONAL
CELLS
Speaker: Pascal Schneider (Germany)

PS01-26AM-571 HYPOXIA INDUCES MEK/ERK SIGNALING VIA PRIMARY CILIA
AND THE HYPOXIA-INDUCIBLE FACTOR-2ALPHA - A HELPING
FACTOR FOR NEURONAL CELLS TO SURVIVE ISCHEMIA?
Speaker: Tristan Leu (Germany)

PS01-26AM-572 INFLUENCE OF THE CILIARY PROTEASOME ON HYPOXIA-
INDUCIBLE FACTORS
Speaker: Stephan Schieren (Germany)

PS01-26AM-573 HYPOXIA-INDUCIBLE FACTOR-2ALPHA IN FOCAL CEREBRAL
ISCHEMIA
Speaker: Vincent von Oepen (Germany)

PS01-26AM-574 THE ROLE OF TANYCYTIC CILIA ON HYPOTHALAMIC FUNCTIONS
Speaker: Manon Rivagorda (Spain)

PS01-26AM-575 OXYGEN MATTERS: UNRAVELING THE ROLE OF OXYGEN IN THE
NEURONAL RESPONSE TO CISPLATIN
Speaker: Jose Manuel Crugeiras Pérez (Spain)

PS01-26AM-576 "UNIVERSAL (EPO, EV-3, TPO, ...)” CYTOKINE-MEDIATED
NEUROPROTECTION VIA PHYLOGENETICALLY ANCIENT
CYTOKINE RECEPTOR-LIKE FACTOR 3 (CRLF3)
Speaker: Ralf Heinrich (Germany)

PS01-26AM-577 CHOROID PLEXUSES CARRY NODAL-LIKE CILIA THAT UNDERGO
AXONEME REGRESSION FROM EARLY ADULT STAGE
Speaker: Valentina Scarpetta (Germany)

PS01-26AM-578 THE SWEET TASTE RECEPTOR SIGNALING AT PRIMARY CILIA
INVOLVES AN ADENYLATED CYCLASE INHIBITORY MECHANISM.
Speaker: Juan Villalobos (Chile)
Scientific Symposia (S)
09:45 - 11:15

S01 - Brain network mechanisms in psychosis: disease mechanisms and therapeutic opportunities
Chair: Elvira De Leonibus (CNR, Italy)
Chair: Maria De Risi (Telethon Institute of genetics and Medicine (TIGEM), Fondazione Telethon, Italy)

**Introduction**
09:45 - 11:15

A novel brain network dopamine mechanism to expand memory capacity beyond its normal limit
09:45 - 11:15

**Speaker**: Elvira De Leonibus (CNR, Italy)

**Q&A**
09:47 - 09:49

**Cellular systems and signaling in D1 dopamine receptor mediated working memory enhancement**
09:47 - 10:05

**Speaker**: Yang Yang (Penn State University College of Medicine, United States)

**Q&A**
10:07 - 10:09

**Neural substrates of psychosis-like states and cognitive impairment in mouse models of schizophrenia**
10:09 - 10:27

**Speaker**: M. Victoria Puig (Spanish Research Council (CSIC), Spain)

**Q&A**
10:29 - 10:31

**Tracking developmental connectopathy in 22q11.2 deletion syndrome**
10:31 - 10:49

**Speaker**: Marco Pagani (Child Mind Institute, NYC, United States)

**Q&A**
10:51 - 11:11

Scientific Symposia (S)
09:45 - 11:15

S02 - Dissecting mechanisms of disease in ASD models for developing and testing personalized treatments
Chair: Ilse Gantois (McGill University, Rosalind and Morris Goodman Cancer Institute, Canada)

**Introduction**
09:45 - 11:15

Novel and complementary pre-clinical approaches to treat Fragile X Syndrome
09:45 - 11:15

**Speaker**: Barbara Bardoni (CNRS, France)

**Q&A**
10:07 - 10:09

Converging molecular pathways in Kleefstra syndrome as targets for therapy
10:09 - 10:27

**Speaker**: Hans van Bokhoven (Radboud university medical center, Donders Institute for Brain, Cognition and Behaviour, Netherlands)

**Q&A**
10:29 - 10:31

**Fragile X syndrome and basal ganglia: focus on RGS4**
10:31 - 10:49

**Speaker**: Francesco Longo (University of Gothenburg / Sahlgrenska Academy, Sweden)

**Q&A**
10:47 - 10:53

**Repurposing of drugs for the treatment of Fragile X and Phelan McDermid syndromes**
10:53 - 11:11

**Speaker**: Ilse Gantois (McGill University, Rosalind and Morris Goodman Cancer Institute, Canada)

**Q&A**
11:11 - 11:15
Scientific Symposia (S)
09:45 - 11:15

**S03 - Metabolism dynamics orchestrate brain development and evolution**

**Chair:** Fiona Francis (Institut du Fer à Moulin, Inserm, Sorbonne University, France)

- **Introduction** 09:45 - 09:47
- **Dynamic layers of RNA regulation in cortical neurogenesis** 09:47 - 10:05
  
  **Speaker:** Debra Silver (Duke University Medical Center, United States)

- **Q&A** 10:05 - 10:09
- **Sphingolipid synthesis pathways in neocortex development and pathology** 10:09 - 10:27
  
  **Speaker:** Fiona Francis (Institut du Fer à Moulin, Inserm, Sorbonne University, France)

- **Q&A** 10:27 - 10:31
- **Evolutionary changes in metabolism drive neural progenitor expansion in the human neocortex** 10:31 - 10:49
  
  **Speaker:** Takashi Namba (University of Helsinki, Finland)

- **Q&A** 10:49 - 10:53
- **Species-specific mitochondria dynamics regulate the neotenic tempo of human brain development** 10:53 - 11:11
  
  **Speaker:** Pierre Vanderhaeghen (VIB KU Leuven, Belgium)

- **Q&A** 11:11 - 11:15

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**S04 - Beyond VTA dopamine neurons: unexpected roles of VTA glutamatergic and GABAergic neurons in behavior**

**Chair:** Marisela Morales (Neuronal Networks Section, Integrative Neuroscience Research Branch, National Institute on Drug Abuse (NIDA/NIH), United States)

**Chair:** M. Flavia Barbano (Neuronal Networks Section, Integrative Neuroscience Research Branch, National Institute on Drug Abuse (NIDA/NIH), United States)

- **Introduction** 09:45 - 09:47
- **VTA glutamatergic neurons modulate feeding behavior in response to threats** 09:47 - 10:05
  
  **Speaker:** M. Flavia Barbano (Neuronal Networks Section, Integrative Neuroscience Research Branch, National Institute on Drug Abuse (NIDA/NIH), United States)

- **Q&A** 10:05 - 10:09
- **VTA to amygdala salience networks in the regulation of emotional behaviors** 10:09 - 10:27
  
  **Speaker:** Sebastian Fernandez (Institute of Molecular and Cellular Pharmacology (IPMC), France)

- **Q&A** 10:27 - 10:31
- **Role of VTA GABA neurons in controlling sleep-wake states** 10:31 - 10:49
  
  **Speaker:** William Wisden (Faculty of Natural Sciences, Imperial College of London, United Kingdom)

- **Q&A** 10:49 - 10:53
- **A novel VTA GABA pathway that encodes unconditioned reward value** 10:53 - 11:11
  
  **Speaker:** Marina Picciotto (Yale University, United States)

- **Q&A** 11:11 - 11:15

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Scientific Symposia (S)
09:45 - 11:15

**S05 - The hitch-hiker’s guide to the axon: RNA transport and local translation on organelles**

*Chair:* Angelika B. Harbauer (Max Planck Institute for Biological Intelligence, Germany)
*Chair:* Jean Michel Cioni (San Raffaele Scientific Institute, San Raffaele Hospital, Italy)

**Introduction**

09:45 - 09:47

**Metabolic regulation of mitochondrial mRNA hitch-hiking**

09:47 - 10:05

*Speaker:* Angelika B. Harbauer (Max Planck Institute for Biological Intelligence, Germany)

**Q&A**

10:05 - 10:09

**Role of lysosome-coupled mRNA transport in the maintenance of axonal homeostasis**

10:09 - 10:27

*Speaker:* Juan S. Bonifacino (National Institutes of Health (NIH), Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD), United States)

**Q&A**

10:27 - 10:31

**ncRNAs: a non-canonical mode of intracellular transport through organelle hitchhiking**

10:31 - 10:49

*Speaker:* Marie-Laure Baudet (University of Trento, Italy, Italy)

**Q&A**

10:49 - 10:53

**Local role of ER tubules in axonal translation**

10:53 - 11:11

*Speaker:* Max Koppers (Utrecht University/Vrije Universiteit Amsterdam, Netherlands)

**Q&A**

11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

**S06 - Multisensory decisions across species and modalities**

*Chair:* Philip Coen (University College London, United Kingdom)
*Chair:* Seung-Hee Lee (Korea Advanced Institute of Science & Technology (KAIST), Korea, Republic of)

**Introduction**

09:45 - 09:47

**Proprioceptive, motor, and visual interactions for context-dependent movement correction**

09:47 - 10:05

*Speaker:* Eugenia Chiappe (Champalimaud Centre for the Unknown, Portugal)

**Q&A**

10:05 - 10:09

**Integration of tactile and auditory input for context-dependent goal-directed behavior**

10:09 - 10:27

*Speaker:* Carl Petersen (Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland)

**Q&A**

10:27 - 10:31

**Multisensory decision-making signals in parietal and frontal cortices**

10:31 - 10:49

*Speaker:* Anne Churchland (The University of California, Los Angeles, United States)

**Q&A**

10:49 - 10:53

**Sensory combination from the perspective of multisensory causal inference**

10:53 - 11:11

*Speaker:* Christoph Kayser (Bielefeld University, Germany)

**Q&A**

11:11 - 11:15
Scientific programme

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Scientific Symposia (S)
09:45 - 11:15

**S07 - Astrocytes and tanycytes in the regulation of central and peripheral metabolism**

*Chair:* Cristina Garcia-Caceres (Helmholtz Munich/ LMU Munich, Germany)
*Chair:* Maite Solas (University of Navarra, Spain)

**Introduction** 09:45 - 09:47

**GLUT1 ablation in astrocytes paradoxically improves central and peripheral glucose metabolism** 09:47 - 10:05

*Speaker:* Maite Solas (University of Navarra, Spain)

**Q&A** 10:05 - 10:09

**Astrocyte-neuron communication in the hypothalamus tunes hunger circuits** 10:09 - 10:27

*Speaker:* Cristina Garcia-Caceres (Helmholtz Munich/ LMU Munich, Germany)

**Q&A** 10:27 - 10:31

**Astrocyte cannabinoid CB1 receptors control brain metabolism** 10:31 - 10:49

*Speaker:* Giovanni Marsicano (Inserm and University of Bordeaux, France)

**Q&A** 10:49 - 10:53

**Tanycyte - neuron interactions in control of metabolism** 10:53 - 11:11

*Speaker:* Jens Brüning (Max Planck Institute for Metabolism Research, Germany)

**Q&A** 11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

**S08 - Neuronal chloride transporters in health and disease**

*Chair:* Xin Tang (Boston Children’s Hospital, United States)

**Introduction** 09:45 - 09:47

**The role of aberrant Cl- homeostasis in neurodevelopmental disorders** 09:47 - 10:05

*Speaker:* Laura Cancedda (Italian Institute of Technology, Italy)

**Q&A** 10:05 - 10:09

**A novel mechanism for post-traumatic interneuron survival mediated by chloride uptake in microglia** 10:09 - 10:27

*Speaker:* Claudio Rivera (University of Helsinki, Finland)

**Q&A** 10:27 - 10:31

**Molecular and functional characterization of brain disease-associated KCC2 variants** 10:31 - 10:49

*Speaker:* Xin Tang (Boston Children’s Hospital, United States)

**Q&A** 10:49 - 10:53

**Enhancing KCC2 function reduces interictal activity and prevents seizures in MTL epilepsy** 10:53 - 11:11

*Speaker:* Florian Donneger (Institut du Fer Moulin, Sorbonne Université, France)

**Q&A** 11:11 - 11:15
Poster Sessions with authors in attendance
11:30 - 13:00  Posters

**PSA01 - Poster Authors in Attendance**

Sponsored Sessions (SS)
12:00 - 13:00  D

**SS01 - Sponsored Session**

Special Interest Events (SiE)
12:00 - 12:45  F

**SiE02 - Eating disorders, just a problem of nutrition? From behavioral alterations to genes**

- Event Description  12:00 - 12:00
- Preliminary Programme  12:00 - 12:00
- Speakers  12:00 - 12:00

Special Interest Events (SiE)
12:00 - 12:45  G

**SiE03 - How and why should I publish in European Journal of Neuroscience?**

- Event Description  12:00 - 12:00
- Preliminary Programme  12:00 - 12:00
- Speakers  12:00 - 12:00

Special Interest Events (SiE)
12:00 - 12:45  H

**SiE04 - Developing Professional and Personal Networks as an Essential Tool to Successful Science Careers**

- Event Description  12:00 - 12:00
- Speakers  12:00 - 12:00

Special Interest Events (SiE)
12:00 - 12:45  OT

**SiE05 - Art of the mind: using neuroscience data to create immersive worlds**

- Event Description  12:00 - 12:00
- Speakers  12:00 - 12:00

Special Lecture (SL)
13:30 - 14:30  A

**SL02 - The Brain Prize Lecture 2023, Michael Greenberg (US)**

- Introduction  13:30 - 13:30
- How nature and nurture conspire in the regulation of postnatal brain development and plasticity  13:30 - 13:30

*Speaker:* Michael Greenberg (Harvard Medical School, United States)
**Special Lecture (SL)**

13:30 - 14:15

**SL03 - Chica and Heinz Schaller Foundation Award Lecture**

**Introduction**

13:30 - 13:30

**Presentation title**

13:30 - 13:30

**Presentation title**

13:30 - 13:30

**Other**

13:30 - 14:00

**Industry slot**

**Poster Sessions**

14:00 - 17:30

**Poster Session 02 - Section 7**

**PS02-26PM-172**

**DOPAMINERGIC MODULATION OF DRD1A-CRE+ NEURONS AND THEIR LOCAL NETWORK ACTIVITY IN THE MURINE MEDIAL PREFRONTAL CORTEX**

_Speaker:_ Mohammed Abuelem (United Kingdom)

**PS02-26PM-173**

**OREXINERGIC ACTIVATION OF DRD1A-CRE+ NEURONS IN THE PREFRONTAL CORTEX UNDERLIES ANXIETY BEHAVIOUR**

_Speaker:_ Luis Fernando Messore (United Kingdom)

**PS02-26PM-174**

**CONVERGENT REGULATION OF DOPAMINE RELEASE BY STRIATAL Dopamine transporters AND GABA receptors**

_Speaker:_ Bethan O’Connor (United Kingdom)

**PS02-26PM-175**

**RECIPROCAL REGULATION OF STRIATAL DOPAMINE AND SEROTONIN RELEASE IN HEALTHY AND PARKINSONIAN MICE**

_Speaker:_ Qinbo Qiao (United Kingdom)

**PS02-26PM-176**

**EXPLORING THE ROLE OF AXONAL VOLTAGE-GATED SODIUM CHANNELS IN THE MODULATION OF DOPAMINE RELEASE BY PRESYNAPTIC NICOTINIC RECEPTORS**

_Speaker:_ Lucille Duquenoy (United Kingdom)

**PS02-26PM-177**

**REGULATION OF DOPAMINE RELEASE BY STRIATAL ADRENOCEPTORS**

_Speaker:_ Jessica Livesey (United Kingdom)

**PS02-26PM-178**

**MODULATION OF CHOLINERGIC INTERNEURONS AND DOPAMINE RELEASE BY STRIATAL ASTROCYTES**

_Speaker:_ Shinil Raina (United Kingdom)

**PS02-26PM-179**

**INVESTIGATION OF SYNCAM 2 FUNCTION AT DOPAMINE HUB SYNAPSES OF THE MOUSE STRIATUM**

_Speaker:_ Vincent Paget-Blanc (France)

**PS02-26PM-180**

**STRUCTURAL DETERMINANTS OF DOPAMINE RECEPTOR AGONIST SELECTIVITY**

_Speaker:_ Olga Trovato (Austria)

**PS02-26PM-181**

**INVESTIGATING AND MODULATING K-OPIOID RECEPTOR G-PROTEIN SIGNALING**

_Speaker:_ Ana Lechuga (Austria)

**PS02-26PM-182**

**DIFFERENCES OF DESIGNER RECEPTOR EXCLUSIVELY ACTIVATED BY DESIGNER DRUGS (DREADD) SIGNALING PREFERENCES COMPARED TO WILD TYPE RECEPTORS**

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Speaker: Mitja Amon Posch (Austria)

PS02-26PM-183 ACUTE DOPAMINE EFFECTS UPON EXCITATORY SYNAPTIC TRANSMISSION IN THE LATERAL CENTRAL AMYGDALA

Speaker: Susanne Meis (Germany)

PS02-26PM-184 DOPAMINE D3 RECEPTOR BLOCKADE ENHANCES HIPPOCAMPAL PLASTICITY THROUGH POST-SYNAPTIC MECHANISMS

Speaker: Maria Rosaria Tropea (Italy)

PS02-26PM-185 CORTICAL INACTIVATION OF DARPP32 IMPAIRS SYNAPTIC AND STRUCTURAL PLASTICITY, ASSOCIATED WITH MOTOR LEARNING

Speaker: Clarissa Pisanò (Sweden)

PS02-26PM-186 IMPLICATION OF MESOCORTICOLIMBIC DOPAMINE TRANSMISSION IN GOAL-DIRECTED BEHAVIORS: A ROLE FOR DOPAMINE AND NMDA RECEPTOR HETEROEOMERS?

Speaker: Anna Petitbon (France)

PS02-26PM-187 INTERACTION OF CANNABINOID AND DOPAMINERGIC SIGNALING IN INCIDENTAL LEARNING

Speaker: Unai Blanco Fundazuri (France)

PS02-26PM-188 MODULATION OF AKT AND RIBOSOMAL S6 PROTEIN PHOSPHORYLATION BY DOPAMINE RECEPTORS AND CYCLIC AMP IN THE DEVELOPING RETINA

Speaker: Roberto Paes-de-Carvalho (Brazil)

PS02-26PM-189 NEUROMODULATORS TRIGGER THE FORMATION OF INHIBITORY BOUTONS IN HIPPOCAMPUS VIA ACTIVATION OF CAMP/PKA SIGNALING

Speaker: Ségalène Bompierre (Netherlands)

PS02-26PM-190 D1/D5 DOPAMINE RECEPTORS SUPPORTS POSTSYNAPTIC LONG-TERM GABAERGIC SYNAPTIC PLASTICITY IN THE HIPPOCAMPUS

Speaker: Patrycja Brzdąk (Poland)

PS02-26PM-191 DOPAMINE INCREASES THE PROTEIN SYNTHESIS RATE IN THE HIPPOCAMPUS ENABLING DOPAMINE-DEPENDENT LTP

Speaker: Tanja Fuchsberger (United Kingdom)

PS02-26PM-192 ALTERATIONS IN DOPAMINERGIC INNERVATION AND RECEPTOR EXPRESSION IN MOUSE MODELS AND PATIENTS WITH FOCAL CORTICAL DYSPLASIA

Speaker: Norisa Meli (Germany)

PS02-26PM-193 SEROTONIN MODULATES POLYSYNAPTIC INHIBITION BETWEEN STRIATAL CHOLINERGIC INTERNEURONS

Speaker: Joseph Baxendale (Sweden)

PS02-26PM-194 CHEMOGENETICALLY INDUCED G_s SIGNALING IS INVOLVED IN THE DENDRITIC AND AXONAL PATTERN FORMATION OF CORTICAL NEURONS

Speaker: Ina Köhler (Germany)

PS02-26PM-195 NETWORK MODULATION USING PATHWAY AND NEUROMODULATOR SPECIFIC CHEMOGENETICS IN MACAQUE FRONTAL CORTEX: FORAGING BEHAVIOUR, IMAGING AND HISTOLOGY.

Speaker: Charles Wilson (France)

PS02-26PM-196 PHARMACOLOGICAL ACTIVATION OF THE DOPAMINE D4 RECEPTOR PREVENTS MORPHINE-INDUCED IMPAIRMENT OF ADULT NEUROGENESIS IN THE SUBVENTRICULAR ZONE: FUNCTIONAL IMPLICATIONS IN ODOR DISCRIMINATION LEARNING
**Scientific programme**

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**Speaker**: Belen Gago (Spain)

**PS02-26PM-197** - **EXTRASTRIATAL DOPAMINE DIFFERENTIALLY MODULATES ERRONEOUS PERCEPTUAL CONFIDENCE**

**Speaker**: Matthaeus Willeit (Austria)

**PS02-26PM-198** - **ROLE OF DOPAMINE IN THE MODULATION OF MK801-ENHANCED HYPERLOCOMOTION AND HIGH-FREQUENCY OSCILLATIONS IN THE RAT OLFACTORY BULB**

**Speaker**: Jacek Wróbel (Poland)

**PS02-26PM-199** - **CHARACTERIZATION OF THE CEREBRAL DOPAMINE NEUROTROPHIC FACTOR (CDNF) IN NUCLEUS ACCUMBENS OF RODENTS.**

**Speaker**: Merce Correa (Spain)

**PS02-26PM-200** - **ADRENERGIC RECEPTORS CONTROL OF REBOUND DEPOLARIZATION IN MEDIAL PREFRONTAL CORTEX PYRAMIDAL NEURONS**

**Speaker**: Przemyslaw Kurowski (Poland)

**Poster Sessions with authors in attendance**

14:00 - 15:30

**Poster Sessions**

14:00 - 17:30

**Poster Session 02 - Section 162**

**PS02-26PM-576** - **ROLE OF NOTCH SIGNALING PATHWAY IN RADIAL GLIAL PROGENITOR LINEAGE PROGRESSION**

**Speaker**: Raquel Casado Polanco (Austria)

**PS02-26PM-577** - **RPTOR/MTORC1 FUNCTION IN RADIAL GLIA PROGENITOR LINEAGE PROGRESSION**

**Speaker**: Ana Villalba Requena (Austria)

**PS02-26PM-578** - **CONSERVED SPECIFIC NUCLEAR CONSTRAINTS IN RADIAL GLIA CELLS**

**Speaker**: Soledad Alcántara (Spain)

**PS02-26PM-579** - **MODELLING THE RADIAL GLIA SCAFFOLD IN VITRO TO STUDY RADIAL MIGRATION OF PYRAMIDAL NEURONS**

**Speaker**: Tanya Deutsch Guerrero (France)

**PS02-26PM-580** - **HIPPOCAMPUS BASAL RADIAL GLIA MORPHOTYPES ACROSS DIFFERENT MAMMALIAN SPECIES**

**Speaker**: Matilde Aquilino (Finland)

**PS02-26PM-581** - **CELLREMORPH: A BLENDER-BASED TOOLKIT FOR CONSTRUCTING AND OPTIMIZING MORPHOLOGICALLY DETAILED ASTROGLIAL CELL MODELS**

**Speaker**: Laura Keto (Finland)

**Poster Session 02 - Section 57**

**PS02-26PM-523** - **EEG PATTERNS REFLECTING BAYESIAN INFERENCE DURING AUDITORY TEMPORAL DISCRIMINATION**

**Speaker**: Ulrich Pomper (Austria)

**PS02-26PM-524** - **EEG CORRELATES OF BAYESIAN INFERENCE IN AUDITORY**
SPATIAL LOCALIZATION IN CHANGING ENVIRONMENTS
Speaker: Burcu Bayram (Austria)
PS02-26PM-525 BAYESIAN PERCEPTUAL ADAPTATION IN AUDITORY MOTION PERCEPTION: A MULTIMODAL APPROACH WITH EEG AND PUPILLOMETRY
Speaker: Roman Fleischmann (Austria)
PS02-26PM-526 BAYESIAN INFECTION DURING IMPLICIT PERCEPTUAL BELIEF UPDATING IN DYNAMIC AUDITORY PERCEPTION
Speaker: Robert Baumgartner (Austria)
PS02-26PM-527 DYNAMIC PERCEPTION IN VOLATILE ENVIRONMENTS: HOW RELEVANT IS THE PAST WHEN PREDICTING THE FUTURE?
Speaker: David Meijer (Austria)
PS02-26PM-528 SEEING WHAT YOU BELIEVE: NEUROPHYSIOLOGICAL MECHANISMS OF FLEXIBLE INTEGRATION OF PRIORS IN VISUAL DECISIONS
Speaker: Gabriela Iwama (Germany)
PS02-26PM-529 DISTINGUISHING INTEGRATION AND NON-INTEGRATION ACCOUNTS OF SEQUENTIAL SAMPLING IN PERCEPTUAL DECISION-MAKING
Speaker: Hadiseh Hajimohammadi (Ireland)
PS02-26PM-530 THE IMPACT OF WARNING CUES ON TARGET-DISCRIMINATING DECISIONS IN CONTINUOUS MONITORING SITUATIONS
Speaker: Anna Geuzebroek (Ireland)
PS02-26PM-531 REPRESENTATION OF A PERCEPTUAL BIAS IN THE PREFRONTAL CORTEX
Speaker: Luis Serrano-Fernandez (Spain)
PS02-26PM-532 PERCEPTUAL DECISION-MAKING AND SHORT-TERM PRIORS: EXPLORING THE ROLE OF PSYCHOSIS PRONENESS
Speaker: Anna-Chiara Schaub (Switzerland)
PS02-26PM-533 STOCHASTIC MODEL FOR THE OPTIMAL FUSION OF SOCIAL AND SENSORY INFORMATION IN TRANSPARENT INTERACTIONS
Speaker: selma kouaiche (Germany)

Poster Sessions
14:00 - 17:30
Poster Session 02 - Section 132
PS02-26PM-154 SHORT AND LONG THOUGHTS: EXPRESSED BY A CORTEX WITH REGIONALLY DIFFERENT TIME SCALES
Speaker: Anindita Basu (Italy)
PS02-26PM-155 CONTINUOUS QUASI-ATTRACTORS THRIVE ON IRREGULARITY, UP TO A LIMIT
Speaker: Alessandro Treves (Italy)
PS02-26PM-156 FADING MEMORY AS INDUCTIVE BIAS IN RESIDUAL RECURRENT NETWORKS
Speaker: Igor Dubinin (Germany)
PS02-26PM-157 HARMONIC OSCILLATOR NETWORKS (Horns) AND THE FUNCTIONAL ROLE OF OSCILLATORY DYNAMICS IN NEOCORTEX CIRCUITS
Speaker: Felix Effenberger (Germany)
PS02-26PM-158 REPRESENTATIONAL DRIFT WITHOUT SYNAPTIC PLASTICITY

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Speaker: Caroline Haimerl (Portugal)
PS02-26PM-159 EXCITATION-INHIBITION BALANCE IN A MODEL OF PLASTIC COUPLED OSCILLATORS DETERMINES COLLECTIVE SYNCHRONIZATION AND CONNECTION FLUCTUATIONS

Speaker: Satoshi Kuroki (Japan)
PS02-26PM-160 ABRUPT TRANSITIONS INTERRUPT SLOW, ONGOING REPRESENTATIONAL DRIFT IN EXPERIMENT AND MODEL

Speaker: Jens-Bastian Eppler (Goethe University Frankfurt, Department of Computer Science, Frankfurt Institute for Advanced Studies, Germany)
PS02-26PM-161 A DYNAMIC ATTRACTOR NETWORK MODEL OF MEMORY CODING

Speaker: Marta Boscaglia (United Kingdom)
PS02-26PM-162 DISTRIBUTED MEMORY ENGRAMS UNDERLIE FLEXIBLE AND VERSATILE NEURAL REPRESENTATIONS

Speaker: Douglas Feitosa Tomé (Austria)
PS02-26PM-163 MEMORIES BY A THOUSAND RULES: META-LEARNING PLASTICITY RULES FOR MEMORY FORMATION AND RECALL IN LARGE SPIKING NETWORKS

Speaker: Basile Confavreux (Austria)
PS02-26PM-164 AMPLIFICATION ABOUNDS, BUT NOT WITHOUT A TOLL. THE TRADE-OFF BETWEEN STABILITY AND AMPLIFICATION IN DAEAN NETWORKS.

Speaker: Nicoleta Condruz (Austria)
PS02-26PM-165 METABOLIC NEURAL CONSTRAINTS PROVIDE RESILIENCE TO NOISE IN FEED-FORWARD NETWORKS

Speaker: Ivan Bulygin (Austria)
PS02-26PM-166 HARMONIC OSCILLATOR RNNS: SINGLE NODE DYNAMICS, RESONANCE AND THE ROLE OF FEEDBACK CONNECTIONS.

Speaker: Pedro Romero Fragoso de Carvalho (Germany)
PS02-26PM-167 CODEPENDENT PLASTICITY UNDERLIES CORTICAL MEMORY STRENGTHENING

Speaker: Prakriti Parthasarathy (India)
PS02-26PM-168 A GAME OF MEMORY: LEARNING IN SPIKING NETWORKS WITH PRESERVED WEIGHT DISTRIBUTIONS

Speaker: Maayan Levy (Austria)
PS02-26PM-169 REPRESENTATIONAL DRIFT FROM A POPULATION VIEW OF MEMORY CONSOLIDATION

Speaker: Denis Alevi (Germany)
PS02-26PM-170 BIOPHYSICAL BASIS OF ULTRAFAST POPULATION ENCODING

Speaker: Andreas Neef (Germany)
PS02-26PM-171 RATE OF REPRESENTATIONAL DRIFT CORRELATES WITH INFORMATION THEORETIC MEASURES OF NEURAL AND BEHAVIOURAL COUPLING

Speaker: Kris Heiney (United Kingdom)

Poster Sessions
14:00 - 17:30 Posters

Poster Session 02

Poster Sessions
14:00 - 17:30 Posters

Poster Session 02 - Section 144
PS02-26PM-130  DEFICIENT OCULAR DOMINANCE PLASTICITY IN PRIMARY VISUAL CORTEX OF OREXIN KNOCKOUT MICE
Speaker: Jaya Sowkyadha Sathiyamani (Germany)

PS02-26PM-131  OREXIN KNOCKOUT MICE HAVE COMPROMISED ORIENTATION DISCRIMINATION AND DISPLAY REDUCED AMPAR-MEDIATED EXCITATION IN L4-2/3 CONNECTIONS IN THE PRIMARY VISUAL CORTEX
Speaker: Cornelia Schöne (Germany)

PS02-26PM-132  ADAPTIVE PLASTICITY IN ADULT BRAIN CIRCUITRY DURING NATURALLY OCCURRING REGENERATION OF SENSORY INPUTS
Speaker: Matthew Grubb (United Kingdom)

PS02-26PM-133  BLOOD PRESSURE PULSATIONS MODULATE OLFACTORY BULB ACTIVITY VIA MECHANOSENSITIVE ION CHANNELS
Speaker: Siegrid Löwel (Germany)

PS02-26PM-134  ACTIVITY-DEPENDENT MOLECULAR SIGNATURES OF THE DEVELOPING SENSORY CORTEXES
Speaker: Dorien Vandael (Spain)

PS02-26PM-136  Olfactory control of cognitive development
Speaker: Yunan Chen (Germany)

PS02-26PM-137  TWO-TIMEFRAME MONOSYNAPTIC Rabies tracing reveals changes in neuronal connectivity contributing to ocular dominance plasticity in the adult mouse.
Speaker: Danielle Paynter (Germany)

PS02-26PM-138  SYNAPTIC ENCODING OF GUSTATORY INFORMATION
Speaker: Olga Barba-Vila (France)

PS02-26PM-139  ACTIVE ZONE MECHANISMS UNDERLYING THE FUNCTIONAL DIFFERENTIATION OF OLFACTORY SENSORY NEURONS IN DROSOPHILA MELANOGASTER
Speaker: Namrata Acharya (Germany)

PS02-26PM-140  STUDY OF BRAIN PLASTICITY FOLLOWING LOSS OF MONOCULAR VISION IN MICE
Speaker: ANTONIO CABALLERO TAPIA (Belgium)

PS02-26PM-141  IDENTIFICATION OF BILATERAL HOMEOSTATIC PLASTICITY IN OLFACTORY GLOMERULI OF X. TROPICALIS TADPOLES.
Speaker: Marta Casas (Spain)

PS02-26PM-142  THE BASAL FOREBRAIN CHOLINERGIC SYSTEM LINKING OLFACTION AND COGNITIVE FUNCTION: FROM BASIC STUDIES TO CLINICAL APPLICATION
Speaker: Sae Uchida (Japan)

PS02-26PM-143  A TOPOGRAPHICAL MAP IN THE MAIN OLFACTORY CORTEX
Speaker: Rafi Haddad (Israel)

PS02-26PM-144  TOWARDS THE CELLULAR SUBSTRATE OF ANISOTROPIC LATERAL INHIBITION BETWEEN RAT OLFACTORY BULB GLOMERULI
Speaker: Esteban Pino Rodriguez (Germany)

PS02-26PM-145  THE ROLE OF THE NASAL EPITHELIUM IN THE GENERATION OF WAKE-RELATED ELECTROPHYSIOLOGICAL RHYTHMS IN THE
OLFACTORY BULB OF RATS
Speaker: Wiktoria Podolecka (Poland)

PS02-26PM-146 AN OLFACITION-DEPENDENT CRITICAL WINDOW FOR SOMATOSENSORY DEVELOPMENT
Speaker: Linbi Cai (Switzerland)

PS02-26PM-147 CORTICAL NETWORK REORGANIZATION OF CONGENITAL AND PERINATAL BLINDNESS IN MICE
Speaker: Guillaume Laliberté (Canada)

PS02-26PM-148 PHYSIOLOGICAL AND MORPHOLOGICAL CHARACTERIZATION OF SYNCHRONOUS OSCILLATORY NETWORK IN THE SLUG OLFACTORY CENTER IN VITRO.
Speaker: Suguru Kobayashi (Japan)

PS02-26PM-149 OLFACTORY NEUROGENESIS AFTER VISUAL IMPAIRMENT: A ROLE IN SENSORY COMPENSATION?
Speaker: Oisorjo Chakraborty (Austria)

PS02-26PM-150 TRANSIENT GALANIN EXPRESSION MODULATES PERIPHERAL-TO-CENTRAL CONNECTIVITY IN THE SOMATOSENSORY THALAMUS DURING WHISKER DEVELOPMENT IN MICE
Speaker: Zsofia Hevesi (Austria)

PS02-26PM-151 LAYER 1 NDNF+ INTERNEURONS CONTROL BILATERAL SENSORY PROCESSING IN AN AGE- AND LAYER-DEPENDENT MANNER
Speaker: Anna Cavaccini (Switzerland)

PS02-26PM-152 POTENTIAL INTEGRATION OF MAIN AND ACCESSORY OLFACTORY BULB AXONAL PROJECTIONS IN THE MOUSE AMYGDALA
Speaker: Moritz Nesseler (Germany)

PS02-26PM-153 OZONE EFFECT ON OLFACTORY SENSITIVITY AND OLFACTORY BULB DOPAMINERGIC NEURON EXCITABILITY.
Speaker: Angela Pignatelli (Italy)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 108

PS02-26PM-001 PERTURBING INHIBITORY ACTIVITY INTERFERES WITH MEMORY REACTIVATION AND ATTENUATES LEARNING IN POSTHINAL CORTEX
Speaker: Kristian Kinden Lensjø (Norway)

PS02-26PM-002 VISUAL ASSOCIATIVE LEARNING IN THE MEDIAL ENTORHINAL CORTEX
Speaker: Ingeborg Nymoen (Norway)

PS02-26PM-003 SOMA-TARGETED GECI CONSTRUCTS FOR INTRACEREBRAL OR INTRAVENOUS ADMINISTRATION, INCLUDING JGCAMP8, NEMO AND EGCAMP CONSTRUCTS
Speaker: Sverre Grødem (Norway)

PS02-26PM-004 BRAINVECTOR - A COMPREHENSIVE PLATFORM FOR PRE-CLINICAL DEVELOPMENT OF AAV BASED GENE THERAPIES FOR BRAIN DISEASES
Speaker: Nils-Anders Labba (Norway)

PS02-26PM-005 THETA MODULATION OF GRID CELLS IN THE MEDIAL ENTORHINAL CORTEX IN A NOVEL ENVIRONMENT TASK

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Speaker: Maria Fjeldstad (Norway)

PS02-26PM-006  
EXPLORING SOCIAL AND SPATIAL CODING IN THE LATERAL AND MEDIAL ENTORHINAL CORTEX

PS02-26PM-007  
TARGETED PERTURBATION OF ENDOGENOUS MECHANISMS FOR THE REGULATION OF PERINEURONAL NETS

Speaker: Guro Vatne (Norway)

PS02-26PM-008  
SOCIAL AND SPATIAL CODES IN THE HIPPOCAMPUS

Speaker: Elise Reppe Olsen (Norway)

PS02-26PM-009  
A MOUSE MODEL OF PROFOUND HYPOTHERMIA AND REWARMING - A SYSTEM FOR INVESTIGATING TEMPERATURE-DEPENDENT SYNAPTIC PLASTICITY

Speaker: Tina Kleven (Norway)

PS02-26PM-010  
CORTICAL-HIPPOCAMPAL INTERACTION IN THE CONTEXT OF MEMORY TASK

Speaker: Francesco Battaglia (Netherlands)

PS02-26PM-011  
MEASURING INTEGRATION OF NOVEL AND PRE-EXISTING KNOWLEDGE IN HIPPOCAMPUS AND NEOCortex

Speaker: Angela Zordan (Netherlands)

PS02-26PM-012  
A VIRTUAL-REALITY TASK TO INVESTIGATE MULTISENSORY OBJECT RECOGNITION IN MICE

Speaker: Veronique Stokkers (Netherlands)

PS02-26PM-013  
NEURONAL CORRELATES OF SOCIAL AND SPATIAL CUES IN THE MOUSE RETROSPLENIAL CORTEX

Speaker: Rotinda Bilek (Netherlands)

PS02-26PM-014  
POWER PIXELS: A PYTHON-BASED PIPELINE FOR PROCESSING OF NEUROPIXELS RECORDINGS

Speaker: Jeroen Bos (Netherlands)

PS02-26PM-015  
FRONTAL DYNAMICS UNDERLYING FLEXIBLE DECISION MAKING IN MICE

Speaker: Francesca Abela (Netherlands)

PS02-26PM-016  
BRAIN WIDE MODULATION OF TEMPORAL- AND RATE CODES DURING HIPPOCAMPAL SHARP WAVE RIPPLES

Speaker: Guido Meijer (Netherlands)

PS02-26PM-017  
HEADFIXED SOCIAL FEAR LEARNING IN MOUSE WITH VIRTUAL SPATIAL CUES AND REAL DEMONSTRATOR

Speaker: Arie Kim (Netherlands)

PS02-26PM-018  
DEVELOPMENT OF HIPPOCAMPAL-CORTICAL INTERACTION DURING SLEEP IN PUPS

Speaker: Morgane Audrain (Netherlands)

PS02-26PM-019  
REAL-TIME DETECTION OF SHARP-WAVE RIPPLES WITH A CLOSED-LOOP STIMULATION FRAMEWORK

Speaker: Cem Uran (Netherlands)

PS02-26PM-020  
VENTRAL HIPPOCAMPAL FUNCTIONAL INHIBITION DISRUPTS REPEATED REVERSAL LEARNING, WHEREAS DISINHIBITION DISRUPTS EXPRESSION OF THE PREVIOUS RESPONSE.

Speaker: Rachel Grasmeder Allen (United Kingdom)

PS02-26PM-021  
The role of dorsal-ventral hippocampal dynamics in sleep-dependent processing of aversive experiences

Speaker: Juan Facundo Morici (France)
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PS02-26PM-038  A ROLE FOR ACETYLCHOLINE IN UNCERTAIN DECISION MAKING
Speaker: Ella Svahn (United Kingdom)

PS02-26PM-039  CORTICO-hippocampal INTERACTIONS SUPPORTING FLEXIBLE SPATIAL BEHAVIOURS IN HEAD-RESTRAINED MICE
Speaker: Bálint Lasztóczi (Austria)

PS02-26PM-040  COMMUNICATION BETWEEN THE HIPPOCampus, NUCLEUS ACCUMBENS AND VENTRAL TEGMENTAL AREA DURING LEARNING AND MEMORY
Speaker: Raphael Brito (France)

PS02-26PM-041  NEURAL UNDERPINNINGS OF CONFLICT BETWEEN MEMORY AND SENSORY-DRIVEN EXPERIENCES
Speaker: Manish Prajapat (India)

PS02-26PM-042  IN VIVO PATCH-CLAMP RECORDINGS FROM MEDIAL SEPTAL NUCLEUS NEURONS
Speaker: Hana Samejima (Japan)

PS02-26PM-043  REVISITATION DURING VISUAL EXPLORATION LINKED TO MEMORY DURABILITY AND HIPPOCAMPAL DYNAMICS
Speaker: Luise Graichen (Austria)

PS02-26PM-044  BRAIN AREAS THAT CONSTITUTE VENTRAL PATHWAY CIRCUITS ARE INDEPENDENTLY ABLE TO INDUCE ENHANCEMENT IN OBJECT MEMORY AND CAUSE REVERSAL IN OBJECT MEMORY DEFICIT
Speaker: Zafar Khan (Spain)

PS02-26PM-045  VENTRAL STRIATAL CONTROL OF SPATIAL MEMORY CONSOLIDATION IN THE HIPPOCAMPUS
Speaker: Mattia Santoboni (Italy)

PS02-26PM-046  NOVELTY SELECTIVELY PERMITS LEARNING-ASSOCIATED PLASTICITY IN VENTRAL TEGMENTAL-hippocampAL-PREFrontAL CIRCUITRY
Speaker: Alan Jung Park (Korea, Republic of)

PS02-26PM-047  POSTNATAL CAJAL-RETSZIUS CELL ABLATION INDUCED LEARNING DEFICITS IN YOUNG ADULT MICE
Speaker: Ingvild Glærum (Norway)

PS02-26PM-048  SPECIFIC ABBLATION OF HIPPOCAMPAL THETA ACTIVITY DURING LOCOMOTION IMPAIRS LEARNING
Speaker: Abhilasha Joshi (United States)

PS02-26PM-049  INVOLVEMENT OF ENTORHINAL INPUT TO THE HIPPOCAMPUS IN PROCESSING "WHAT" AND "WHERE" INFORMATION IN TWIN VARIANTS OF A MEMORY TASK
Speaker: Ana Belen de Landeta (Norway)

PS02-26PM-050  NOVEL ITEM-PLACE LEARNING TRIGGERS SOMATIC GENE EXPRESSION IN THE DORSAL HIPPOCAMPUS AND ANTERIOR RETROSPLENIAL CORTEX
Speaker: Thu Huong Hoang (Germany)

PS02-26PM-051  MAPPING SPATIAL ORGANIZATION OF FUNCTIONAL INPUTS
Speaker: Vincenzo Regio (Italy)

PS02-26PM-052  CORTICAL REINSTATEMENT: A DIRECT APPROACH TO TESTING HIPPOCAMPAL INDEXING THEORY
Speaker: Katarzyna Sawicka (Poland)

PS02-26PM-053  HIPPOCAMPAL ARC/ARG3.1 MODIFIES COORDINATED NEURAL FIRING IN CORTICO-hippocampAL NETWORKS
**Scientific programme**  
14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

**Speaker**: Abdurahman Hassan Abdurahman Kuku (Germany)

**PS02-26PM-054**  
**SHEDDING LIGHT ON OBJECT LOCATION RECALL: OPTOGENETIC PRIMING OF THE HIP-MPFC PATHWAY FOR OBJECT-LOCATION MEMORY**

**Speaker**: Julia Buescher (Germany)

**PS02-26PM-055**  
**A ROLE FOR HIPPOCAMPAL CA1 IN STRUCTURAL LEARNING IN MICE**

**Speaker**: Svenja Nierwetberg (United Kingdom)

**PS02-26PM-056**  
**REUNIENS-HIPPOCAMPUS SYNCHRONIZATION IS REQUIRED FOR SUCCESSFUL NAVIGATION AND DECISION MAKING.**

**Speaker**: Tristan Baumann (Germany)

**PS02-26PM-057**  
**HOW THE VGLUT3 POSITIVE MEDIAN RAPHE CELLS MODULATE THE HIPPOCAMPAL RESPONSE TO SALIENT STIMULI?**

**Speaker**: Marta Jelitai (Hungary)

**PS02-26PM-058**  
**PROBING MEMORY FORMATION AND RETRIEVAL IN HIPPOCAMPAL NETWORKS**

**Speaker**: Ivan Montiel (France)

**PS02-26PM-059**  
**HIPPOCAMPUS IS NECESSARY FOR IMPLICIT STATISTICAL LEARNING: INSIGHTS FROM MOUSE AND HUMAN PUPILLOMETRY**

**Speaker**: Adedamola Onih (United Kingdom)

**PS02-26PM-060**  
**NEURAL CORRELATES OF CATEGORIZATION IN HIPPOCAMPUS CA1**

**Speaker**: Laura Sainz Villalba (Switzerland)

**PS02-26PM-061**  
**SENSORY CUES BIND MEMORY REPRESENTATIONS FACILITATING CONSOLIDATION**

**Speaker**: Joe Moore (France)

**PS02-26PM-062**  
**CRITICALITY AND GENERALIZATION IN HIPPOCAMPAL SUBREGIONS REFLECT RELATIONSHIP PREDICTED BY THE FREE-ENERGY PRINCIPLE**

**Speaker**: Tristan Manfred Stöber (Germany)

**PS02-26PM-063**  
**RESOLVING DECISION-MAKING DURING EMOTIONAL CONFLICTS BY VENTRAL HIPPOCAMPAL CIRCUITS.**

**Speaker**: Carlo Cerquetella (Switzerland)

**PS02-26PM-064**  
**CHRONIC IN VIVO ELECTROPHYSIOLOGICAL RECORDINGS FROM THE HIPPOCAMPUS IN FREELY MOVING, PRE-WEANED MICE**

**Speaker**: Jasmin Steudler (Netherlands)

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**Poster Sessions**
14:00 - 17:30

**Poster Session 02 - Section 5**

**PS02-26PM-236**  
**EPILEPTOGENESIS MODIFIES THE HIPPOCAMPAL MOLECULAR OSCILLATORY PROFILE IN MICE**

**Speaker**: Radharani Benvenutti (Ireland)

**PS02-26PM-237**  
**IL-1-PIP3 SIGNAL CASCADE MEDIATES EPILEPSY AND SLEEP DISTURBANCES**

**Speaker**: Shu-Hui Huang (Taiwan)

**PS02-26PM-238**  
**ALTERED GABAERGIC SIGNALLING IN TYPICAL ABSENCE SEIZURES**

**Speaker**: Beulah Leitch (New Zealand)
PS02-26PM-239 ALTERED SEMAPHORIN (SEMA3F) LEVELS LEAD TO INCREASED GLUTAMATERIC SYNAPTIC TRANSMISSION IN TEMPORAL LOBE EPILEPSY (TLE)

Speaker: Vivek Dubey (India)

PS02-26PM-240 METABOLIC DYNAMICS SHAPES NEURAL ACTIVITY: A FRAMEWORK FOR CONTROL OF EPILEPSY

Speaker: Richard Sebastian Eydam (Japan)

PS02-26PM-241 THE KAINIC ACID INDUCED STATUS EPILEPTICUS. COMPARATIVE STUDY OF THE HIPPOCAMPUS ULTRASTRUCTURE IN WISTAR RATS

Speaker: Irine Sharikadze (Georgia)

PS02-26PM-242 TERMINATION OF CONVULSION SEIZURES BY DESTABILIZING AND PERTURBING SEIZURE MEMORY ENGRAMS

Speaker: Xinyue Ma (China)

PS02-26PM-243 THE IMPACT OF NEURODEGENERATION ON THE ELECTRICAL ACTIVITY OF BRAIN TISSUE: MULTIELECTRODE ARRAY ANALYSIS

Speaker: Andrijana Angelovski (Czech Republic)

PS02-26PM-244 HIF-1A INDUCES CAV3.2 AND PAVES THE WAY FOR POST-ISCHEMIC EPILEPTOGENESIS

Speaker: Anna Tröscher (Austria)

PS02-26PM-245 VIRAL ENCEPHALITIS CAUSES RAPID TRANSIENT DEPLETION OF NEURONAL PROGENITOR CELLS AND CHRONICALLY ALTERS NEUROGENESIS IN THE ADULT MOUSE DENTATE GYRUS.

Speaker: Alberto Pauletti (Germany)

PS02-26PM-246 EPILEPTIC ACTIVITY INDUCES RAPID ROCK1-DEPENDENT ASTROCYTE MORPHOLOGY CHANGES

Speaker: Petr Unichenko (Germany)

PS02-26PM-247 EVIDENCE FOR INVOLVEMENT OF AN MTOROPATHIC HIPPOCAMPAL DG/CA3 CONNECTOPATHY IN THE ETIOLOGY AND COGNITIVE COMORBIDITIES OF MEDIAL TEMPORAL LOBE EPILEPSY

Speaker: Farzad Khanipour (Poland)

PS02-26PM-248 COGNITIVE COMORBIDITIES IN YOUNG AND ADULT RATS WITH ABSENCE SEIZURES

Speaker: Mariana Neuparth-Sottomayor (Portugal)

PS02-26PM-249 CIRCADIAN TIMING OF LIMBIC SEIZURES IN THE EPILEPTIC MOUSE

Speaker: Kristina Slabeva (Switzerland)

PS02-26PM-250 UNCOVERING HSP60’S ROLE IN TEMPORAL LOBE EPILEPSY

Speaker: Aranea Dunckley (United States)

PS02-26PM-251 ANALYSIS OF DIFFERENCES IN HIPPOCAMPAL ADULT NEUROGENESIS INDUCED BY ACUTE MILD AND SEVERE SEIZURES IN YOUNG MICE

Speaker: Diana Laura López Ibarra (Mexico)

PS02-26PM-252 ANTI-EPILEPTIC MEDICATION IS ASSOCIATED WITH EXCITATORY SYNAPTIC STRENGTHENING IN PYRAMIDAL NEURONS OF THE ADULT HUMAN NEOCORTEX

Speaker: Amelie Eichler (Germany)

PS02-26PM-253 ALTERED SYNAPTIC STRUCTURES IN THE HUMAN DYSPLASTIC NEOCORTEX

Speaker: Na-young Seo (Korea, Republic of)
PS02-26PM-254  ALTERATIONS IN GABA POLARITY CONTRIBUTE TO CHANGES IN NETWORK ACTIVITY IN A MODEL OF FOCAL CORTICAL DYSPLASIA TYPE 2  
Speaker: Anouk Heuvelmans (Netherlands)

PS02-26PM-255  CIRCULATING MICRONAS AND ISOMIRS AS BIOMARKERS FOR THE INITIAL INSULT AND EPILEPTOGENESIS IN FOUR EXPERIMENTAL EPILEPSY MODELS - THE EPITARGET STUDY  
Speaker: Silvia Zucchini (Italy)

PS02-26PM-256  THE IMPACT OF EPILEPTIC NEURONAL ACTIVITY ON OLIGODENDROCYTE LINEAGE CELLS AND MYELINATION IN A MOUSE MODEL OF FOCAL CORTICAL DYSPLASIA  
Speaker: Adam Bogdanovič (Czech Republic)

PS02-26PM-257  EFFECTS OF LONG-TERM LOW FREQUENCY STIMULATION ON SEIZURES, HISTOPATHOLOGY AND BEHAVIOR IN A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY  
Speaker: Piret Kleis (Germany)

PS02-26PM-258  REGION-SPECIFIC DYREGULATION OF THE HISTONE DEACETYLASE 4-SERUM RESPONSE FACTOR AXIS IN TEMPORAL LOBE EPILEPSY  
Speaker: Sonali Kumar (India)

PS02-26PM-259  NEUREGULIN I TYPE III OVEREXPRESSION AS A LINK BETWEEN SCHIZOPHRENIA SPECTRUM DISORDER AND EPILEPSY  
Speaker: Mehrnoush Zobeiri (Germany)

PS02-26PM-260  A CORRELATION STUDY BETWEEN BRAIN LESIONS AND SEVERITY OF THE EPILEPTIC SYNDROME IN THE PILOCARPINE MODEL OF TEMPORAL LOBE EPILEPSY  
Speaker: Elisa Ren (Italy)

PS02-26PM-261  PHOSPHORYLATED PROTEIN TYROSINE KINASE 2 EXHIBITS ALTERED EXPRESSION IN A REGION-SPECIFIC MANNER IN TEMPORAL LOBE EPILEPSY  
Speaker: Ozasvi Rajeev Shanker (India)

PS02-26PM-262  CHANGES IN ENDOCANNABINOID-DEPENDENT SYNAPTIC PLASTICITY IN CA1 HIPPOCAMPUS OF A MOUSE MODEL OF TEMPORAL LOBE EPILEPSY  
Speaker: Amaia Mimenza (Spain)

PS02-26PM-263  OREXIN-2 RECEPTOR PROTEIN LEVELS IN THE THALAMOCORTICAL AXIS IN GENETIC ABSENCE EPILEPSY RATS FROM STRASBOURG  
Speaker: Devrim Oz Arslan (Turkey)

PS02-26PM-264  NO EVIDENCE OF THALAMIC CONTRIBUTION TO SEIZURE GENERALIZATION  
Speaker: Peter Barthó (Hungary)

PS02-26PM-265  DIFFERENTIAL DISTRIBUTION OF KEY REGULATORY ION CHANNELS IN EXCITATORY SYNAPSES OF THE EPILEPTIC HUMAN BRAIN REVEALED BY FREEZE-FRACTURE REPLICA ANALYSIS  
Speaker: Walter Kaufmann (Austria)

PS02-26PM-266  CHARACTERIZATION OF AN HIPPOCAMPAL MODEL OF EPILEPTIFORM ACTIVITY  
Speaker: Pablo Reyes Velasquez (Spain)

PS02-26PM-267  MICROGLIA-SPECIFIC CIRCADIAN RHYTHM DISRUPTION LEADS TO AN ALTERED INFLAMMATORY PROFILE AND INCREASED SUSCEPTIBILITY TO SEIZURES.

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Speaker: Tammy Strickland (Ireland)

PS02-26PM-268 CEREBRAL MALARIA LEADS TO PERSISTENT MICROGLIAL ACTIVATION, LONG-TERM BEHAVIOURAL CHANGES AND ELECTROGRAPHIC SEIZURES IN MICE

Speaker: Marion Bankstahl (Germany)

Poster Sessions 14:00 - 17:30

Poster Session 02 - Section 76

PS02-26PM-404 A MULTIMODAL APPROACH TO INVESTIGATE HUMAN BRAIN MESOSCALE CIRCUITS WITH CELLULAR AND SUBCELLULAR RESOLUTION

Speaker: Irene Incerti (Italy)

PS02-26PM-405 CHOLINERGIC SYSTEM AND AMYLOID BETA (AB) INTERPLAY AT TRIPARTITE GLUTAMATERGIC SYNAPSES IN AN ALTERNATIVE MOUSE MODEL OF ALZHEIMER'S DISEASE

Speaker: Manuela Tore (Italy)

PS02-26PM-406 COMBINING ELECTROPHYSIOLOGY, TISSUE CLEARING, AND LIGHT SHEET MICROSCOPY FOR AN INTEGRATED APPROACH TOWARDS BRAIN CIRCUIT UNDERSTANDING

Speaker: Sebastian Böhm (Austria)

PS02-26PM-407 PATHODISCO-HE: LIGHT SHEET MICROSCOPY AND FLUORESCENT LABELLING OF GLIOBLASTOMA MULTIFORME FOR 3D VIRTUAL H&E IMAGING AND IMPROVED PATHOHISTOLOGICAL EVALUATION

Speaker: James Oakes-Klein (Austria)

PS02-26PM-408 STITCHING CORTICES: A CORTICAL SURFACE RECONSTRUCTION METHOD FOR LESSER-KNOWN ANIMALS

Speaker: Heitor Mynssen (Brazil)

PS02-26PM-409 BRAZILIAN NEUROBIODIVERSITY NETWORK - CETACEAN BRAIN COLLECTION INITIATIVE FOR MORPHOLOGICAL RESEARCH

Speaker: Kamilla Souza (Brazil)

PS02-26PM-410 DENSE RECONSTRUCTION OF MAMMALIAN BRAIN TISSUE WITH LIGHT MICROSCOPY

Speaker: Mojtaba Tavakoli (Austria)

PS02-26PM-411 DIRECT VISUALIZATION OF PROTEIN AGGREGATES IN SYNAPTOSOMES

Speaker: Shekhar Kedia (United Kingdom)

PS02-26PM-412 METHOD FOR 3D QUANTITATIVE ANALYSIS OF ENTERIC NERVOUS SYSTEM REMODELING IN MOUSE AND HUMAN GUT TISSUES

Speaker: Arielle Planchette (Switzerland)

PS02-26PM-413 STED MICROSCOPY REVEALS DENDRITE-SPECIFICITY OF SPINES

Speaker: Marcel Lauterbach (Germany)

PS02-26PM-414 COMPARISON OF HISTOLOGICAL PROCEDURES AND ANTIGENICITY OF HUMAN POSTMORTEM BRAINS FIXED WITH SOLUTIONS USED IN GROSS-ANATOMY LABORATORIES

Speaker: Eve-Marie Frigon (Canada)

PS02-26PM-415 MACRO2MESOSPIM LIGHT-SHEET SYSTEM AND TISSUE SPECIFIC CLEARING STRATEGIES ENABLE UNOBSTRUCTED 3D ORGAN AND ORGANISM INTERROGATION

Speaker: Marko Pende (United States)
PS02-26PM-416 USING CRYO-ELECTRON TOMOGRAPHY (CRYO-ET) TO STUDY THE MOLECULAR ARCHITECTURE OF SYNAPSES
Speaker: Thanh Thao Do (Germany)

PS02-26PM-417 ORGANIZATION PRINCIPLES OF THE NEURONAL ULTRASTRUCTURE REVEALED WITH 3D ELECTRON MICROSCOPY
Speaker: Matthias Haberl (Germany)

PS02-26PM-418 MICROCIRCUITS IN THE MARMOSET PREFRONTAL CORTEX: A LARGE VOLUME CORRELATIVE LIGHT-ELECTRON MICROSCOPY STUDY
Speaker: Nilton Liuji Kamiji (Japan)

PS02-26PM-419 DENSE SYNAPSE-LEVEL RECONSTRUCTION OF BRAIN TISSUE WITH SUPER RESOLUTION LIGHT MICROSCOPY
Speaker: Julia Lyudchik (Austria)

PS02-26PM-420 LARGE-SCALE HISTOLOGICAL 3D MAPPING OF NEURODEGENERATIVE AND PSYCHIATRIC DISORDERS IN THE HUMAN BRAIN
Speaker: Tomas Jorda (Switzerland)

PS02-26PM-421 EFFECT OF DIFFERENT FIXATION PROTOCOLS ON HUMAN BRAIN TISSUE PRESERVATION AND IMMUNOGENEITY
Speaker: Bibiána Török (Hungary)

PS02-26PM-422 BIOORTHOGONAL TAG- A MODERN WAY TO VISUALIZE POLYAMINATED PROTEINS IN HIPPOCAMPUS
Speaker: Aleksandra Owczarek (Poland)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 53

PS02-26PM-534 NAVIGATING THE CHALLENGES OF INVESTIGATING THE INFLUENCE OF GESTATIONAL GUT MICROBIOME DISRUPTION AND PERINATAL ASPHYXIA ON NEURODEVELOPMENTAL REFLEXES IN RAT OFFSPRING
Speaker: Ana Maria Catrina (Romania)

PS02-26PM-535 THE MODULATORY EFFECTS OF PROBIOTIC ADMINISTRATION DURING PREGNANCY ON OFFSPRING NEURODEVELOPMENTAL OUTCOMES UNDER PRENATAL STRESS CONDITIONS
Speaker: Mara Ionescu (Romania)

PS02-26PM-536 THE IMPACT OF GESTATIONAL STRESS AND ANTIBIOTICS ON POSTPARTUM MATERNAL BEHAVIOR
Speaker: Ioana Dogaru (Romania)

PS02-26PM-537 THE DEFAULT EEG REACTIVITY TO PHOTIC STIMULATION IS IMPAIRED FOLLOWING GLOBAL CEREBRAL ISCHAEMIA AND REPERFUSION
Speaker: Vlad-Petru Morozan (Romania)

PS02-26PM-538 ASSESSING THE EEG REACTIVITY TO PHOTIC STIMULATION IN THE SEDATED EPILEPTIC BRAIN
Speaker: Laurentiu Tofan (Romania)

PS02-26PM-539 FUNCTIONAL MAPPING OF BRAIN PATHWAYS INVOLVED IN THE GUT MICROBIAL MODULATION OF SOCIAL BEHAVIOUR
Speaker: Melanie Depret (Ireland)

PS02-26PM-540 CELL TYPE AND SYNAPSE-SPECIFIC DEFINITION OF MEMORY CIRCUITS IN MICROBIOTA-DEFICIENT MICE
Speaker: Mathieu Thabault (Ireland)
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PS02-26PM-555  SYMPATHETIC NEURAL-IMMUNE INTERACTIONS INVOLVED IN EARLY LIFE STRESS-INDUCED GASTROINTESTINAL DISORDER

*Speaker:* Shaoqi Duan (Japan)

PS02-26PM-556  INCREASED INTESTINAL PERMEABILITY AND UNEXPECTED RESILIENCE TO DSS COLITIS-INDUCED SICKNESS BEHAVIOUR IN THE NEUROLIGIN-3<sup>R451C</sup> MOUSE MODEL OF AUTISM.

*Speaker:* Elisa Hill (Australia)

PS02-26PM-557  FECAL MICROBIOTA TRANSPLANTATION FROM INDIVIDUAL WITH BIPOLAR DISORDER AND HEALTHY CONTROL ELICITS DISTINCT BEHAVIORS AND METABOLITE PROFILES IN MICE

*Speaker:* Aitak Farzi (Austria)

PS02-26PM-558  LOCAL AND ABSCOPAL DISTURBANCES IN MICE EXPOSED POSTNATALLY TO IONIZING RADIATION: DOSE AND BRAIN IRRADIATED VOLUME COMPLEX EFFECTS

*Speaker:* Christelle DURAND (France)

PS02-26PM-559  THE NEUROLOGICAL CONSEQUENCES OF PERIPHERAL INFLAMMATION: DELVING INTO SYNAPTIC TRANSMISSION AND GLIAL RESPONSES

*Speaker:* Giorgia Scaringi (Italy)

PS02-26PM-560  PRODROMAL GUT DYSBIOSIS, ANHEDONIA AND DEPRESSION-LIKE BEHAVIOR IN THE A53T MOUSE MODEL OF PARKINSON’S DISEASE - THE IMPACT OF SOCIAL MICROENVIRONMENT

*Speaker:* Olga Dubljević (Serbia)

PS02-26PM-561  THE PESTICIDE GLYPHOSATE INDUCES SEX-DEPENDENT BEHAVIOURAL CHANGES IN MICE: A ROLE FOR THE GUT MICROBIOTA?

*Speaker:* Rie Matsuzaki (Ireland)

PS02-26PM-562  PERINATAL METHYL DONOR DEFICIENCY INCREASES THE PREVALENCE OF “DEPRESSIVE-LIKE” BEHAVIOR IN ASSOCIATION WITH ALTERATION OF THE MICROBIOTA-GUT-BRAIN DIALOGUE IN A TRANSGENERATIONAL RAT MODEL.

*Speaker:* Arnaud Michel (France)

PS02-26PM-563  APOE GENOTYPE EFFECTS ON THE HUMAN GUT MICROBIOME

*Speaker:* Ioanna Freri (Austria)

PS02-26PM-564  ADMINISTRATION OF ENTEROCOCCUS FAECIUM L-3 REDUCES DISEASE SEVERITY IN EAE MODEL IN RATS BY MODULATING MICROBIOTA COMPOSITION, GUT MICROMORPHOLOGY, AND IMMUNE FUNCTION

*Speaker:* Alexander Trofimov (Russian Federation)

PS02-26PM-565  ACUTE STRESS, MICROBIAL METABOLITES AND THE MICROBIOTA-GUT-BRAIN AXIS: FOCUS ON MICROBIAL REGULATION OF BARRIER FUNCTION AND HIPPOCAMPAL PLASTICITY

*Speaker:* Cristina Rosell-Cardona (Ireland)

**Poster Sessions**

14:00 - 17:30

**Poster Session 02 - Section 90**

PS02-26PM-495  ATTENTIONAL MODULATION OF THE CORTICAL CONTRIBUTION TO THE FREQUENCY-FOLLOWING RESPONSE EVOKED BY CONTINUOUS SPEECH

*Speaker:* Alina Schüller (Germany)

PS02-26PM-496  THE CORTICAL FREQUENCY-FOLLOWING RESPONSE TO
CONTINUOUS SPEECH IN MUSICIANS AND NON-MUSICIANS
Speaker: Jasmin Riegel (Germany)
PS02-26PM-497 DECODING OF SELECTIVE ATTENTION TO SPEECH IN CI PATIENTS USING LINEAR AND NON-LINEAR METHODS
Speaker: Constantin Jehn (Germany)
PS02-26PM-498 DECODING ENVELOPE AND FREQUENCY-FOLLOWING RESPONSES TO SPEECH USING DEEP NEURAL NETWORKS
Speaker: Michael Thornton (United Kingdom)
PS02-26PM-499 EEG-BASED SOURCE ANALYSIS OF THE NEURAL RESPONSE AT THE FUNDAMENTAL FREQUENCY OF SPEECH
Speaker: Jonas Auernheimer (Germany)
PS02-26PM-500 THE PROCESSING OF SPATIAL FREQUENCIES THROUGH TIME IN VISUAL WORD RECOGNITION
Speaker: Clémence Bertrand Pilon (Canada)
PS02-26PM-501 NEURAL CORRELATES OF INDIVIDUAL DIFFERENCES IN MUSIC PREFERENCES
Speaker: Chiyu Maeda (Japan)
PS02-26PM-502 ACCELERATING EEG PROCESSING WITH SUPERCOMPUTERS: A CASE ON INDEPENDENT COMPONENT ANALYSIS
Speaker: Zeyu Wang (Hungary)
PS02-26PM-503 CAN AUDITORY SELF-RELATED STIMULI MAKE CHANGES IN HEMODYNAMIC RESPONSE INFRONTAL CORTEX: A PRELIMINARY FNIRS STUDY
Speaker: Merve Alokten (Turkey)
PS02-26PM-504 NEURAL DYNAMICS UNDERLYING HUMAN VOCALIZATION
Speaker: Vera A. Voigtländer (Germany)
PS02-26PM-505 ROBUST ASSESSMENT OF THE NEURAL ENCODING OF LEXICAL INFORMATION USING THE TEMPORAL RESPONSE FUNCTION
Speaker: Amirhossein Chalehchaleh (Ireland)
PS02-26PM-506 BRAIN-RHYTHM-BASED INFERENCE (BRYBI) FOR TIME-SCALE ININVARIANT SPEECH PROCESSING
Speaker: Olesia Dogonasheva (France)
PS02-26PM-507 IS PHONETIC LEARNING WITH PEERS MORE EFFICIENT THAN LEARNING INDIVIDUALLY? AN INVESTIGATION OF BEHAVIORAL PERFORMANCE AND ELECTRICAL BRAIN ACTIVITY
Speaker: Xueqiao Li (Finland)
PS02-26PM-508 DIFFERENTIAL BRAIN PROCESSES OF NEWLY-LEARNED AND OVERLEARNED AUDIOVISUAL ASSOCIATIONS
Speaker: Weiyong Xu (Finland)

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PS02-26PM-288 MICROGLIA ACTIVATION IS ATTENUATED BY DIMETHYL-TRYPTAMINE IN PRIMARY CELL CULTURES
Speaker: Istvan Pesti (Hungary)
PS02-26PM-289 SPREADING DEPOLARIZATION DISRUPTS NEUROVASCULAR COUPLING AFTER EXPERIMENTAL ACUTE ISCHEMIC STROKE
Speaker: Armand Rafael Bálint (Hungary)
PS02-26PM-290 PKC ACTIVATORS ORCHESTRATE NEURONAL IMMUNE
MODULATION: UNVEILING MICROGLIAL DYNAMICS IN NF-κB ACTIVATION AND PHAGOCYTOSIS

Speaker: Sofia Chanel Weinbender (Austria) 

PS02-26PM-291 MONOAMINERGIC MODULATION OF MICROGLIA IN PHYSIOLOGICAL AND INFLAMMATORY CONDITIONS

Speaker: Moritz Brosch (Austria) 

PS02-26PM-292 METABOLIC SHIFT TOWARDS PENTOSE-PHOSPHATE-PATHWAY SUSTAINS NOX ACTIVITY IN PRO-INFLAMMATORY MICROGLIA

Speaker: Nathan Strogulski (Ireland) 

PS02-26PM-293 TEMPORAL ANALYSIS OF THE INFILTRATION DYNAMICS OF PRO-INFLAMMATORY CYTOKINE-PRODUCING INNATE AND ADAPTIVE IMMUNE CELLS FOLLOWING EXPERIMENTAL TRAUMATIC BRAIN INJURY IN MICE

Speaker: Sahil Threja (Ireland) 

PS02-26PM-294 INHIBITION OF PI3K/AKT/MTOR PATHWAY MODULATES LPS-INDUCED METABOLIC CHANGES IN MICROGLIA

Speaker: Katarina Milosevic (Serbia) 

PS02-26PM-295 AGMATINE DOWNREGULATES LPS-PROMOTED GLYCOLYSIS IN MICROGLIAL CELLS

Speaker: Danijela Savic (Serbia) 

PS02-26PM-296 THE PRO-RESOLVING EFFECT OF NEW FPR2 AGONIST ON THE EVOKED BY BACTERIAL ENDOTOXIN CHANGES IN MICROGLIA ISOLATED FROM ADULT APPNL-F/NL-F MICE BRAINS

Speaker: Ewa Trojan (Poland) 

PS02-26PM-297 EXPLORING MORIN HYDRATE’S KEY ROLE IN LPS-INDUCED IMMUNE RESPONSE AND CELLULAR MOTILITY IN MACROPHAGES

Speaker: Chih-Hsuan Hsia (Taiwan) 

PS02-26PM-298 CHEMOTHERAPY ALTERS THE KOLMER CELL OF THE CHOROID PLEXUS

Speaker: Parisa EmamiAref (Czech Republic) 

PS02-26PM-299 ANTI-INFLAMMATORY EFFECT OF ALPHA-PINENE ON THE NEUROINFLAMMATION INDUCED BY MORPHINE DEPENDENCE AND WITHDRAWAL IS MEDIATED BY MODULATING TOLL-LIKE RECEPTOR SIGNALING PATHWAY

Speaker: Shamseddin Ahmadi (Iran) 

PS02-26PM-300 WHERE AND WHY DO NEUTROPHILS STALL IN RETINAL MICROCIRCULATION: DATA FROM LOW GRADE SYSTEMIC INFLAMMATION MODEL IN THE MOUSE.

Speaker: Meftun Doğa Başaran (Turkey) 

PS02-26PM-301 LOSS OF CYCLOOXYGENASE-1 ATTENUATES MICROGLIA REACTIVITY AFTER OPTIC NERVE INJURY

Speaker: Florianne Schoot Uiterkamp (Austria) 

PS02-26PM-302 EXPLORING THE IMPACT OF IBRUTINIB ON MICROGLIAL INFLAMMATION IN VITRO

Speaker: Debanjan Das (Czech Republic) 

PS02-26PM-303 MODULATING THE ASTROCYTE REACTIVITY BY BLOCKING P2X7R AND PANX1 IN VITRO - INTERCEPTING THE NEUROINFLAMMATION CHRONICITY DEVELOPMENT

Speaker: Marija Adzic Bukvic (Serbia) 

PS02-26PM-304 THE ROLE OF SIGMA-1 RECEPTORS IN NEUROINFLAMMATION USING AN ACUTE SLICE MODEL OF NMDA RECEPTOR
HYPOFUNCTION

**Speaker:** Bethany Dennis (United Kingdom)

**PS02-26PM-305**

**EXPLORING RELATIONSHIPS BETWEEN INFLAMMATORY MEDIATORS AND THE KYNURENINE PATHWAY**

**Speaker:** Trevor Stone (United Kingdom)

**PS02-26PM-306**

**THE IMPACT OF SAUERKRAUT BRINE ON OXIDATIVE STRESS AND INFLAMMATION IN C57BL/6 MICE**

**Speaker:** Valentina Simeunovic (Serbia)

**PS02-26PM-307**

**DUAL INHIBITION OF ECTO-5’-NUCLEOTIDASE (CD73) AND ADENOSINE A2A RECEPTOR REDUCES NEUROINFLAMMATION AND OXIDATIVE STRESS IN TNF, IL1-Α, C1Q-INDUCED NEUROTOXIC ASTROCYTES**

**Speaker:** Katarina Mihajlović (Serbia)

**PS02-26PM-308**

**PROPIONIC ACID ACTIVATES ANTI-INFLAMMATORY PROCESSES AND INDUCES ADULT PHENOTYPE CHANGES IN SCHWANN CELLS**

**Speaker:** Niklas Rilke (Germany)

**PS02-26PM-309**

**BREAKING THE CIRCULUS VITIOSUS OF NEUROINFLAMMATION: RESVERATROL ATTENUATES THE HUMAN GLIAL CELL RESPONSE TO CYTOKINES**

**Speaker:** Luise Schlotterose (Germany)

**PS02-26PM-310**

**ROLE OF TLR4 PATHWAY IN THE PREFRONTAL CORTEX FOLLOWING ACUTE AND CHRONIC ADMINISTRATION OF MORPHINE AND ITS WITHDRAWAL SYNDROME.**

**Speaker:** Victoria Gómez-Murcia (Spain)

**Poster Sessions**

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**Poster Session 02 - Section 165**

**PS02-26PM-566**

**INVESTIGATION OF PROTEIN REPLACEMENT THERAPY FOR RETT SYNDROME USING DIRECTLY REPROGRAMMED NEURONS**

**Speaker:** Hannes Steinkellner (Austria)

**PS02-26PM-567**

**THE USE OF A SHORTENED MECP2 PROTEIN CONSTRUCT IN RETT SYNDROME PROTEIN REPLACEMENT THERAPY.**

**Speaker:** Alexander Beribisky (Austria)

**PS02-26PM-568**

**IN VITRO ANALYSIS OF MITOCHONDRIAL ABNORMALITIES AND OXINFLAMMATORY MECHANISMS INVOLVED IN RETT SYNDROME**

**Speaker:** Gabriele Baj (Italy)

**PS02-26PM-569**

**IN VITRO RETT SYNDROME MODEL BASED ON MECP2 KNOCKDOWN IN IPSC-DERIVED NEURONS**

**Speaker:** Rie Yamoto (Japan)

**PS02-26PM-570**

**IN-SILICO PREDICTION OF NOVEL TARGETS FOR MIRTAZAPINE IN RETT SYNDROME**

**Speaker:** Vittoria Berutto (Italy)

**PS02-26PM-571**

**GPR50-MEDIATED MITOPHAGY IN THE PATHOGENESIS OF AUTISM SPECTRUM DISORDERS**

**Speaker:** Quan-Hong Ma (China)

**PS02-26PM-572**

**MPC2 VARIANTS DISRUPT MITOCHONDRIAL PYRUVATE METABOLISM AND CAUSE AN EARLY-ONSET MITOCHONDRIOPATHY**

**Speaker:** Claire Pujol (France)
PS02-26PM-573  THE MODULATION OF P75 NEUROTROPHIN RECEPTOR REDUCES OXIDATIVE STRESS AND INFLAMMATION IN A CELLULAR MODEL OF RETT SYNDROME
Speaker: Michela Varone (Italy)

PS02-26PM-574  EXPLORING THE POTENTIAL OF READTHROUGH DRUGS ON MMACHC NONSENSE MUTATION R132* RESPONSIBLE FOR COBALAMIN C DEFECT
Speaker: Gursimran Kaur (India)

PS02-26PM-575  THE INTRINSIC PROPERTIES OF SOMATOSTATIN INTERNEURONS IN A MECP2-DEFICIENT MOUSE MODEL OF RETT SYNDROME
Speaker: Abinayah John (United Kingdom)

PS02-26PM-459  EFFECTS OF ALPHA-SYNUCLEIN ON DOPAMINE AND SEROTONIN TRANSPORTERS
Speaker: Iina Ludwig (Austria)

PS02-26PM-460  NOVEL VIRAL VECTORS FOR CELL-TYPE SPECIFIC OVEREXPRESSION OF ALPHA-SYNUCLEIN
Speaker: Sofía Inés García Moreno (Austria)

PS02-26PM-461  TRANSIENT DOPAMINE DEPLETION INCREASES VESICULAR GLUTAMATE TRANSPORTER (VGLUT2) EXPRESSION IN MIDBRAIN DOPAMINE NEURONS - IMPLICATIONS FOR PARKINSON’S DISEASE.
Speaker: Sivakumar Srinivasan (Austria)

PS02-26PM-462  INVESTIGATING GUT-MICROBE INTERACTIONS AND EPITHELIAL A-SYNUCLEIN THROUGH HUMAN ENTEROID MONOLAYERS AND IMAGING FLOW CYTOMETRY OF ENTEROENDOCRINE CELLS IN VITRO
Speaker: Anastazja Gorecki (Australia)

PS02-26PM-463  NF-[B-MEDIATED TOLERANT PHENOTYPE IN MICROGLIA: IMPLICATIONS FOR PARKINSON’S DISEASE DOPAMINERGIC NEURODEGENERATION
Speaker: Irina Freitag (Spain)

PS02-26PM-464  CALCIUM RELEASED BY DYING NEURONS MEDIATES IBA-1 DEPENDENT POLARIZATION OF MICROGLIAL CELLS IN PARKINSONIAN NEURODEGENERATION
Speaker: Meritxell Roig Martínez (Spain)

PS02-26PM-465  AAV-MEDIATED OVEREXPRESSION OF WILD-TYPE HUMAN ALPHA-SYNUCLEIN LEADS TO ALTERATIONS IN GUT MICROBIOTA IN A ‘BRAIN-FIRST’ RAT MODEL OF PRODROMAL PARKINSON’S DISEASE.
Speaker: Joan Osayande (Ireland)

PS02-26PM-466  EFFECT OF ALPHA-SYNUCLEIN ON THE EXPRESSION OF GENES ENCODED IN MITOCHONDRIAL DNA
Speaker: Bilge Nur Bilge (Turkey)

PS02-26PM-467  AMYLOID BETA 1-42 AND ALPHA-SYNUCLEIN PROTEINS: EFFECTS ON TRANSCRIPTION FACTOR EXPRESSION
Speaker: Pelin Sordu (Turkey)

PS02-26PM-468  INTERACTIONS BETWEEN AMYLOID BETA 1-42 AND NUCLEAR TRANSCRIPTION FACTORS IN MITOCHONDRIA

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BARRIER ALTERATIONS IN A PROGRESSIVE MOUSE MODEL OF PARKINSON’S DISEASE

Speaker: Kristina Lau (Germany)

PS02-26PM-484 CORTICOSTRIATAL OVERACTIVITY AND ALPHA-SYNUCLEIN OVEREXPRESSION PRODUCE STRIATAL ASTROCYTOSIS IN MICE

Speaker: Miryam Moreno-Gómez (Spain)

PS02-26PM-485 GLUCOCORTICOID RECEPTORS IN ASTROCYTES REGULATE ALPHA-SYNUCLEIN PATHOLOGICAL ACTIONS IMPACTING MOTOR AND NON-MOTOR SYMPTOMATOLOGY OF PARKINSON’S DISEASE.

Speaker: Chaperon Agnès (Switzerland)

PS02-26PM-486 MICROGLIA RESCUE NEURONS FROM AGGREGATE-INDUCED NEURONAL DYSFUNCTION AND DEATH THROUGH TUNNELING NANOTUBES

Speaker: Hannah Scheiblich (Germany)

PS02-26PM-487 PARTNERS IN CRIME: ALPHA-SYNUCLEIN AND TAU CO-AGGREGATION IMPAIRS MICROGLIAL FUNCTION DURING PARKINSON’S DISEASE

Speaker: Frederik Eikens (Germany)

PS02-26PM-488 SYNERGISTIC EFFECTS OF A-SYNUCLEIN, TAU, AND AMYLOID PATHOLOGY ON MITOPHAGY IN DEMENTIA WITH LEWY BODIES

Speaker: Wolfdieter Springer (United States)

PS02-26PM-489 EXTRACELLULAR VESICLES AND TRANSMISSION OF A-SYNUCLEIN PATHOLOGY: FROM CELLULAR MODELS TO DIAGNOSTIC APPLICATIONS

Speaker: Diana Mjartinová (Slovakia)

PS02-26PM-490 UNVEILING ASTROCYTE DYNAMICS IN PARKINSON’S DISEASE: INSIGHTS FROM SINGLE-NUCLEUS PROFILING ACROSS BRAIN REGIONS

Speaker: Archana Yadav (United States)

PS02-26PM-491 HYPOXIA AS POTENTIAL REGULATOR OF INFLAMMATION IN PARKINSON’S DISEASE

Speaker: Rebecca Kotzur (Germany)

PS02-26PM-492 AUTOPHAGY MODULATION OF GLIAL NEUROINFLAMMATORY RESPONSES IN PARKINSON’S DISEASE

Speaker: Shiza Shaikh (United Kingdom)

PS02-26PM-493 ENDOGENOUS ALPHA-SYNUCLEIN IS ESSENTIAL FOR THE TRANSFER OF PATHOLOGY BY EXOSOME-ENRICHED EXTRACELLULAR VESICLES, FOLLOWING INOCULATION WITH PREFORMED FIBRILS IN VIVO.

Speaker: Katerina Melachroinou (Greece)

PS02-26PM-494 OLIGOMERIC ALPHA-SYNUCLEIN CAUSES EARLY STRIATAL SYNAPTIC DYSFUNCTION ASSOCIATED WITH NON-MOTOR SYMPTOMS

Speaker: Alessandro Tozzi (Italy)

Poster Sessions

Poster Session 02 - Section 118

PS02-26PM-509 VISUAL FEEDBACK MANIPULATION IN VIRTUAL REALITY ALTERS MOVEMENT-EVOKED PAIN PERCEPTION IN CHRONIC LOW BACK PAIN

Speaker: Jaime Jordán López (Spain)
PS02-26PM-510  EFFECTS OF A PREHABILITATION PROGRAMME BASED ON PAIN NEUROSCIENCE EDUCATION IN PATIENTS SCHEDULED FOR LUMBAR RADICULOPATHY SURGERY
Speaker: María Dolores Arguisuelas (Spain)

PS02-26PM-511  EFFECTS OF AN ONLINE INTERVENTION BASED ON PAIN NEUROSCIENCE EDUCATION FOR PREGNANT WOMEN WITH LUMBAR PAIN ON PAIN, DISABILITY, AND KINESIOPHOBIA: A QUASI-EXPERIMENTAL PILOT STUDY.
Speaker: Celia García Lucas (Spain)

PS02-26PM-512  FORMING AND UPDATING PAIN EXPECTATIONS: INFLUENCE OF SEQUENCE VOLATILITY AND TEST-RETEST RELIABILITY
Speaker: Arthur Courtin (Denmark)

PS02-26PM-513  NALTREXONE AFFECTS BOTH FIRSTHAND AND EMPATHIC PAIN - A PHARMACOLOGICAL WITHIN-SUBJECTS STUDY
Speaker: Julia T. Braunstein (Austria)

PS02-26PM-514  THE POPULATION CODING OF TEMPERATURE AND PAIN IN THE HEALTHY HUMAN BRAIN
Speaker: Alexandra Mitchell (Denmark)

PS02-26PM-515  REDUCTION OF INTER-INDIVIDUAL VARIANCE IN FUNCTIONAL MAGNETIC RESONANCE IMAGING IMPROVES THE PREDICTION OF INDIVIDUAL PAIN RATINGS
Speaker: Ole Goltermann (Germany)

PS02-26PM-516  THE IMPACT OF VIRTUAL REALITY ON POSTOPERATIVE COGNITIVE IMPAIRMENT AND PAIN PERCEPTION AFTER SURGERY
Speaker: Andrada-Georgiana Badea (Romania)

PS02-26PM-517  EXPOSURE TO VIRTUAL NATURE DECREASES NEURAL NOCICEPTIVE PROCESSING AND SELF-REPORTED RATINGS DURING ACUTE PAIN
Speaker: Maximilian Steininger (Austria)

PS02-26PM-518  AN ATTEMPT TO ELUCIDATE HOW PEOPLE PERCEIVE SELF-LOCATION
Speaker: Ai Souma (Japan)

PS02-26PM-519  UNCERTAINTY IN THERMOSENSORY EXPECTATIONS ENHANCES AN ILLUSION OF PAIN
Speaker: Jesper Ehmsen (Denmark)

PS02-26PM-520  EXPECTING PAIN: NEUROPHYSIOLOGICAL CORRELATES OF PAIN ANTICIPATION IN THE MOTOR SYSTEM
Speaker: Daniela Dalbagno (Italy)

PS02-26PM-521  CHRONIC LOW-BACK PAIN ANALYSIS AND DIAGNOSTIC THROUGH A STATE-OF-THE-ART IN-HOUSE DEVELOPED SYSTEM
Speaker: Mayra Lopez (Mexico)

PS02-26PM-522  MODELING PAIN SENSITIVITY IN HEALTHY INDIVIDUALS: THE INFLUENCE OF EMOTIONAL TRAITS AND RESILIENCE
Speaker: Ombretta Caspani (Germany)
PS02-26PM-443  THE VARIABILITY OF SPECTRO-LAMINAR BETA RHYTHM PATTERNS IN MACAQUE MOTOR CORTEX REFLECTS TASK AND BEHAVIORAL PARAMETERS
Speaker: Laura López-Galdo (France)

PS02-26PM-444  LOCAL FIELD POTENTIALS IN MACAQUE PREMOTOR CORTEX ENCODE THE STRENGTH OF INTER-INDIVIDUAL MOTOR COORDINATION DURING JOINT ACTION
Speaker: Stefano Grasso (Italy)

PS02-26PM-445  JOINT ACTION AWARENESS DURING VIDEO-GAMING IN MACAQUES
Speaker: Virginia Papagni (Italy)

PS02-26PM-446  EVIDENCE OF DYNAMIC TOP-DOWN INFLUENCES IN THE PARIETO-MOTOR NETWORK DURING VISUOMOTOR BEHAVIOR
Speaker: Georgios Bardanikas (France)

PS02-26PM-447  THE MEDIAL SECONDARY MOTOR CORTEX INFLUENCES LEARNING
Speaker: Ann-Sofie Bjerre (Australia)

PS02-26PM-448  LARGE-SCALE CORTICAL REORGANIZATION IN THE PREMOTOR-PARIETAL CONNECTIONS OF A MACAQUE MODEL WITH PRIMARY MOTOR CORTICAL LESION AND RECOVERY
Speaker: Tatsuya Yamamoto (Japan)

PS02-26PM-449  PRECONFIGURED CORTICO-THALAMIC NEURAL DYNAMICS CONSTRAIN MOVEMENT-ASSOCIATED THALAMIC ACTIVITY
Speaker: Perla Gonzalez-Pereyra (Mexico)

PS02-26PM-450  PLANNING HORIZON IN MOTOR CORTEX DURING SKILL LEARNING IN MACAQUE MONKEYS
Speaker: Nicolas Meirhaeghe (France)

Speaker: Pablo Azón (Spain)

PS02-26PM-452  THE LEFT PRIMARY MOTOR CORTEX AND CEREBELLAR VERMIS ARE CRITICAL HUBS IN BIMANUAL SEQUENTIAL LEARNING
Speaker: Yuki Hamano (Japan)

PS02-26PM-453  HAND PREFERENCE SWITCHING WITH INTRA- AND INTERHEMISPHERIC CHOLINERGIC MODULATION
Speaker: Kazuki Okamoto (Japan)

PS02-26PM-454  WIDESPREAD MOTOR-CORRELATED ACTIVITY IN THE PRIMARY SOMATOSENSORY AND MOTOR CORTEXES
Speaker: Ieva Kerševičiūtė (Lithuania)

PS02-26PM-455  RELATIONSHIP BETWEEN EXCITATORY AND INHIBITORY INDICES AND THE MIRROR NEURON SYSTEM USING TRANSCRANIAL MAGNETIC STIMULATION
Speaker: Madina Imanaeva (Russian Federation)

PS02-26PM-456  BLURRING THE LINE BETWEEN IMAGINATION AND REALITY: MOTOR IMAGERY INFLUENCES PERFORMANCE OF LINKED MOVEMENTS
Speaker: Magdalena Gippert (Germany)

PS02-26PM-457  MAPPING INFORMATION FLOW BETWEEN STRIATUM AND MOTOR CORTEX DURING SKILL LEARNING
Speaker: Marco Celotto (Italy)
PS02-26PM-458  HOW DOES MOTOR EXPERTISE SHAPE THE BRAIN ACTIVITY?
Speaker: Clémence BONNET (France)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 64

PS02-26PM-423  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-424  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-425  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-426  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-427  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-428  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-429  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-430  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-431  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-432  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-433  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-434  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)

PS02-26PM-435  ANALYSIS OF GAZE CONTROL NEURONAL CIRCUITS COMBINING BEHAVIOURAL EXPERIMENTS WITH A NOVEL VIRTUAL REALITY PLATFORM
Speaker: Carmen Núñez-González (Spain)
PS02-26PM-436  USING TWO-DIMENSIONAL OCULOMOTOR MODELING TO ANALYZE SMOOTH PURSUIT PERFORMANCE

Speaker: Juliane Pawlitzki (Germany)

PS02-26PM-437  POSTURAL CONSTRAINTS AFFECT THE OPTIMAL WEIGHTING OF MULTISENSORY INTEGRATION DURING VISUO-MANUAL COORDINATION.

Speaker: Michele Tagliabue (France)

PS02-26PM-438  MOLECULAR CHARACTERIZATION OF MUSCLE SPINDLES, GOLGI TENDON ORGANS, AND PALISADE ENDINGS IN PIG EYE MUSCLES

Speaker: Génova Carrero Rojas (Austria)

PS02-26PM-439  MOUSE SACCADIES ARE COGNITIVE STATE AND TASK DEPENDANT IN NATURALISTIC AND IMMERSIVE DECISION-MAKING TASKS.

Speaker: Robert Taylor (Germany)

PS02-26PM-440  WHAT YOU DON'T SEE IS WHAT YOU GET: NONVISUAL SIGNALS DOMINATE VESTIBULO-OCULAR REFLEX ADAPTATION WHEN RETINAL MOTION DETECTION IS IMPAIRED

Speaker: Beerend Winkelman (Netherlands)

PS02-26PM-441  OCULOMOTOR VERGENCE SYSTEM THROUGH FMRI IN PERSONS WITH BINOCULARLY NORMAL VISION AND PERSISTENT POST-CONCUSSIVE SYMPTOMS WITH CONVERGENCE INSUFFICIENCY

Speaker: Ayushi Sangoi (United States)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 79

PS02-26PM-369  MEDIAL PREFRONTAL CORTICAL CEREBELLIN-4 MODULATES SYNAPSES CRITICAL FOR LONG-TERM MEMORY

Speaker: Louise Goh (Singapore)

PS02-26PM-370  HIPPOCAMPAL 5HT₃₅-R MEDIATE SOCIAL NOVELTY-SEEKING

Speaker: May Si Min Ho (Singapore)

PS02-26PM-371  EPITRANSCRIPTOMIC REGULATION OF SYNAPTIC PLASTICITY VIA NOVEL PHARMACOLOGICAL TOOLS

Speaker: Rahaf Keskinen (Finland)

PS02-26PM-372  CHARACTERISING THE ROLE OF GADD45D IN MRNA STABILITY IN THE CONTEXT OF SYNAPTIC PLASTICITY

Speaker: Alex Brown (Germany)

PS02-26PM-373  METABOTROPIC GLUTAMATE RECEPTORS AND TRPC1 CHANNEL: ROLE IN SYNAPTIC PLASTICITY

Speaker: Farah Issa (Belgium)

PS02-26PM-374  THE INVOLVEMENT OF THE RNA DEMETHYLASE FTO IN SYNAPTIC FUNCTION.

Speaker: Lucia Perez-Benitez (Spain)

PS02-26PM-375  LEPTIN REGULATES THE DEVELOPMENT OF GLUTAMATERGIC SYNAPSES IN THE DEVELOPING HIPPOCAMPUS THROUGH THE PROTEASES MATRIX METALLOPROTEINASE 9 AND CATHEPSIN B.

Speaker: Jose Luis Rodriguez Llamas (United States)

PS02-26PM-376  ANALYZING ACTIVITY-DEPENDENT GENE PLASTICITY USING A GENETIC REPORTER FOR MRI

Speaker: Valerie Phi van (United States)
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<td>Janna Aarse (Germany)</td>
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<td>DEFICIENCY IN SYNAPTIC PROTEASE NEUROTTRYPSIN: ITS EFFECTS ON SYNAPTIC PLASTICITY, LEARNING BEHAVIORS, AND LEARNING-INDUCED DENDRITIC SPINE REMODELING IN MICE</td>
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<td>EXTENDING MALAT1 ACTIVITY TO THE MODULATION OF LSD1 ALTERNATIVE SPlicing: A NOVEL CELL-AUTONOMOUS MECHANISM DEVOTED TO NEURONAL HOMEOSTASIS.</td>
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<td>Oriane Mauger (Switzerland)</td>
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<td>PRG-4 (LPPR2) IS IMPORTANT FOR CORRECT PROTEIN TARGETING TOWARDS SYNAPTIC STRUCTURES AFFECTING MEMORY AND LEARNING</td>
<td>Stefan Wagner (Germany)</td>
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<td>PS02-26PM-388</td>
<td>MMP-9 ACTS THROUGH IGF-1 SIGNALING PATHWAY TO PROMOTE DENDRITIC SPINE PLASTICITY</td>
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**Poster Sessions**

14:00 - 17:30

**Poster Session 02 - Section 147**

**PS02-26PM-080**

EXAMINING THE TRANSCRIPTOMIC SIGNATURE OF THE THALAMUS IN A DUAL-HIT RAT MODEL OF SCHIZOPHRENIA: INSIGHTS INTO GENDER-SPECIFIC ALTERATIONS

**Speaker:** Blanca Sánchez-Moreno (Spain)
PS02-26PM-081 - PLASTICITY-RELATED ALTERATIONS IN THE MPFC OF A DUAL-HIT MODEL OF SCHIZOPHRENIA IN RAT.
Speaker: Javier Gilabert Juan (Spain)

PS02-26PM-082 - DEVELOPMENTAL PERTURBATION OF DOPAMINE PATHWAYS AS A MODEL FOR SCHIZOPHRENIA
Speaker: Kanako Otomo (Switzerland)

PS02-26PM-083 - ELEVATED SYNAPTIC PRUNING IN MICROGLIA ACROSS PATIENT-DERIVED BRAIN ORGANOIDs
Speaker: Susmita Malwade (Sweden)

PS02-26PM-084 - THE GUT-BRAIN AXIIS IN AN ANIMAL MODEL OF SCHIZOPHRENIA
Speaker: Kirsten Schmerder (Germany)

PS02-26PM-085 - DEVELOPMENT OF A TEST BATTERY FOR SOCIAL BEHAVIOR AND ASSESSING A RAT MODEL FOR BIPOLAR DISORDER
Speaker: Candy Theis (Germany)

PS02-26PM-086 - DECIPHERING CIRCUITS CONTROLLING PSYCHIATRY-ASSOCIATED BEHAVIORS
Speaker: Meet Jariwala (Denmark)

PS02-26PM-087 - HIPSC-DERIVED DOPAMINERGIC AND GLUTAMATERIC NEURONS OF SCHIZOPHRENIA PATIENTS SHOW NEURONAL ABERRATIONS IN A CO-CULTURE MODEL
Speaker: Sophia-Marie Hartmann (Germany)

PS02-26PM-088 - SMALL RNAs AS IMPORTANT CONTRIBUTORS IN THE COGNITIVE SYMPTOMS ASSOCIATED TO SCHIZOPHRENIA
Speaker: Marcos Galán Ganga (Spain)

PS02-26PM-089 - THE BRAIN SPHINGOLIPID SYSTEM IN SCHIZOPHRENIA AND ITS TREATMENT
Speaker: Christian Müller (Germany)

PS02-26PM-090 - GENETIC MECHANISMS FOR IMPAIRED SYNAPTIC PLASTICITY IN SCHIZOPHRENIA REVEALED BY COMPUTATIONAL MODELLING
Speaker: Tuomo Mäki-Marttunen (Finland)

PS02-26PM-091 - TOP-DOWN CONNECTIONS FROM ACC TO V1 CONTRIBUTE TO MISMATCH NEGATIVITY
Speaker: Soyoun Kim (United States)

PS02-26PM-092 - SCHIZOPHRENIA RISK GENE SP4 I: A CALL FOR SPATIO-TEMPORAL EXPRESSION DATA ON FETAL RADIAL GLIAL CELLS AND ADULT NUCLEUS ACUMBENS.
Speaker: Venkiteswaran Muralidhar (India)

PS02-26PM-093 - MODELING THE EFFECTS OF SCHIZOPHRENIA RELATED ION-CHANNEL ENCODING GENES ON P50 SUPPRESSION.
Speaker: Jan Fredrik Kismul (Finland)

PS02-26PM-094 - ACTIVATION OF PARVALBUMIN+ INTERNEURONS IN ORBITOFRONTAL CORTEX LEADS TO HIGHER FUNCTIONAL CONNECTIVITY, INCREASED CEREBRAL BLOOD VOLUME AND SOCIAL DYSREGULATION.
Speaker: Elmira Khatamsaz (Germany)

PS02-26PM-095 - TRACING DEVELOPMENTAL PERTURBATIONS IN PSYCHIATRIC DISORDERS
Speaker: Edda Santello (Denmark)

PS02-26PM-096 - A NEUROIMMUNOLOGICAL PERSPECTIVE OF THE BASIS OF
SCHIZOPHRENIA-RELATED SYMPTOMATOLOGY

**Speaker:** Ivan Ballasch (Spain)

**PS02-26PM-097** ELECTROCONVULSIVE SEIZURES MITIGATE PSYCHOTIC-LIKE PHENOTYPE IN MICE LACKING ADENOSINE A2A RECEPTOR

**Speaker:** Paula Álvarez-Montoya (Spain)

**PS02-26PM-098** ROLE OF SCHIZOPHRENIA-ASSOCIATED EXPORTIN 7 IN THE DEVELOPMENT AND FUNCTION OF CORTICAL NEURONS

**Speaker:** Emilie Turlure (France)

**PS02-26PM-099** DYSREGULATION OF PARVALBUMIN- AND CALRETININ-EXPRESSING NEURONS IN THE LATERAL SEPTUM OF THE DF(16)A-/- MOUSE MODEL OF SCHIZOPHRENIA

**Speaker:** Paula Sierra Diaz (Spain)

**PS02-26PM-100** TREATMENT STRATEGY TARGETING 5-HT6R IN AN INNOVATIVE ANIMAL MODEL OF SCHIZOPHRENIA

**Speaker:** Michel Boulouard (France)

**PS02-26PM-101** IMPAIRED SUBCELLULAR LOCALIZATION OF SYNAPTIC MRNAS UNDERLIES CONNECTIVITY DEFICITS IN SCHIZOPHRENIA

**Speaker:** Alessia Atella (Germany)

**PS02-26PM-102** INCREASED GABAERGIC NEUROGENESIS IN HUMAN CORTICAL ORGANOID WITH SCHIZOPHRENIA-ASSOCIATED SETD1A MUTATIONS

**Speaker:** Hilde Smeenk (Netherlands)

**PS02-26PM-103** HYPERACTIVITY, SOCIAL DEFICITS AND SPATIAL WORKING MEMORY IMPAIRMENT IN A NEW MOUSE MODEL OF 3-HIT SCHIZOPHRENIA

**Speaker:** Imane Mouffok (France)

**PS02-26PM-104** DOPAMINERGIC HYPERACTIVITY AND GOAL-DIRECTED BEHAVIORAL DEFICITS IN A 22Q11.2 GENETIC HIGH RISK MOUSE MODEL OF SCHIZOPHRENIA

**Speaker:** Anastasia Diamantopoulou (Germany)

**PS02-26PM-105** COGNITIVE BEHAVIOURAL DEFICITS IN A KNOCK-IN MOUSE MODEL WITH A HUMAN SCHIZOPHRENIA-ASSOCIATED MUTATION IN THE CACNG2 GENE

**Speaker:** Orsolya Antal (Portugal)

**PS02-26PM-106** CHEMOGENETIC MODULATION OF PARVALBUMIN INTERNEURONS IN THE MEDIAL PREFRONTAL CORTEX: RELEVANCE TO COGNITIVE SCHIZOPHRENIA-LIKE SYMPTOMS IN RATS

**Speaker:** Jan Svoboda (Czech Republic)

**PS02-26PM-107** EFFECTS OF THE POLY I:C MODEL OF SCHIZOPHRENIA ON THALAMIC INHIBITORY CIRCUITS

**Speaker:** Marc Beltran i Martinez (Spain)

**PS02-26PM-108** NLRP1 INFLAMMASOME ACTIVATION IN SCHIZOPHRENIA

**Speaker:** Goran Simic (Croatia)

**PS02-26PM-109** PREDICTION OF ANTIPSYCHOTIC-INDUCED EXTRAPYRAMIDAL SYMPTOMS IN SCHIZOPHRENIA USING MACHINE LEARNING

**Speaker:** Monika Sharma (India)

**PS02-26PM-110** IMPAIRED AND DIMINISHED LONG-RANGE GABAERGIC NEURONS AS THE MAJOR PERTURBATION IN A MICRODELETION MODEL OF HUMAN NEUROPSYCHIATRIC DISORDERS

**Speaker:** Katarina Dragicevic (Denmark)
PS02-26PM-111 - IDENTIFICATION OF BLOOD AND NEURONAL BIOMARKERS FOR DISEASE ONSET AND MEDICATION RESPONSE IN FIRST-EPISEDE PSYCHOSIS PATIENTS

Speaker: Olga Rivero (Spain)

PS02-26PM-112 - INFLAMMATION'S IMPRINT: UNRAVELING THE BIOMARKER LANDSCAPE OF SCHIZOPHRENIA VERSUS ACUTE PSYCHOSIS

Speaker: Andrei Gabriel Zanfir (Romania)

PS02-26PM-113 - RELATIONAL DOPAMINE/METABOLIC CORRELATES OF PSYCHOPATHOLOGY IN SCHIZOPHRENIA

Speaker: Irena Dajic (Austria)

PS02-26PM-114 - EARLY POSTNATAL NMDA RECEPTOR ABLATION DIFFERENTIALLY IMPACTS ON TRANSCALLOSAL AND LONG-RANGE MPFC INPUTS

Speaker: Carlos Alfredo Pretell Annan (Argentina)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 65

PS02-26PM-201 - VALUE GUIDED DECISION MAKING IN THE PREFRONTAL CORTEX

Speaker: Dimitrios Mariatos Metaxas (Austria)

PS02-26PM-202 - ANATOMICAL AND FUNCTION DISSECTION OF ORBITOFRONTAL CORTEX NEURONS CONTRIBUTIONS TO DECISION CONFIDENCE

Speaker: Paul Anderson (Austria)

PS02-26PM-203 - DYNAMICAL ADAPTATION OF NEURONAL ACTIVITY IN THE PREFRONTAL CORTEX DEPENDING ON DIFFERENT MOTIVATIONS BEHIND A CHOICE

Speaker: Hugo Malagon-Vina (Austria)

PS02-26PM-204 - NEURONAL SIGNATURE OF COGNITIVE FLEXIBILITY IN THE PREFRONTAL-DORSAL RAPHE CIRCUIT

Speaker: Claudia Espinoza (Austria)

PS02-26PM-205 - TRAINING A NONSTATIONARY RECURRENT NEURONAL NETWORK FOR INFERRING NEURONAL DYNAMICS DURING FLEXIBILITY IN A VALUE-BASED DECISION-MAKING

Speaker: Cristian Estarellas Martin (Austria)

PS02-26PM-206 - JUXTACELLULAR RECORDING AND LABELING OF OPTOTAGGED ORBITOFRONTAL CORTEX INTERNEURONS IN FREELY-MOVING RATS PERFORMING A DECISION-MAKING TASK

Speaker: Ricardo Martins Merino (Austria)

PS02-26PM-207 - ROLE OF THE ORBITOFRONTAL CORTEX IN DECISION MAKING UNDER RISK

Speaker: Florence Pontais (France)

PS02-26PM-208 - THALAMOCORTICAL CONVERGENCE IN THE SECONDARY MOTOR CORTEX SUPPORTS ADAPTIVE DECISION-MAKING

Speaker: Juan Manuel Dafauce Garcia (France)

PS02-26PM-209 - HIGHER-ORDER THALAMO-MOTOR CORTEX CIRCUIT SUPPORTS BEHAVIORAL FLEXIBILITY BY REINFORCING DECISION-VALUE

Speaker: Margaux Giraudet (France)

PS02-26PM-210 - LONG-TERM DYNAMICS OF AMYGDALO-MOTOR CIRCUIT SUPPORT THE LEARNING OF INCENTIVE-MOTIVATED BEHAVIORS

Speaker: Elisabete Augusto (France)
PS02-26PM-211  IMPACT OF BARREL CORTEX LESIONS AND SENSORY DEPRIVATION ON PERCEPTUAL DECISION-MAKING: INSIGHTS FROM COMPUTERVISION AND TIME SERIES CLUSTERING OF FREELY MOVING BEHAVIORAL STRATEGIES  
Speaker: Léa Peltier (France)

PS02-26PM-212  HIPPOCAMPAL, DORSAL STRIATAL, AND MEDIAL PREFRONTAL CORTICAL COMPUTATIONS DEPEND ON MAZE COMPLEXITY  
Speaker: Ugurcan Mugan (United States)

PS02-26PM-213  NOVEL TWO-STEP DECISION-MAKING TASK FOR BELIEVE-STATE REPRESENTATIONS IN MICE  
Speaker: Sofia Castro e Almeida (Austria)

PS02-26PM-214  PLANNING-RELATED ACTIVITY IN THE PRIMATE PREFRONTAL CORTEX AND STRIATUM DURING A BOARD GAME  
Speaker: Min-Yoon Park (United States)

PS02-26PM-215  A NEURAL SUBSTRATE FOR ENCODING THE PROBABILITY OF SENSORY INPUTS  
Speaker: Tal Dalal (Israel)

PS02-26PM-216  DECISION MAKING IN MICE IN THE INTERMITTENT REGIME OF OLFACTORY STIMULI  
Speaker: Luis Boero (United States)

PS02-26PM-217  INVESTIGATING THE SYNAPTIC DYNAMICS OF ADAPTIVE BEHAVIOR IN THE MOUSE FRONTAL CORTEX  
Speaker: Ioanna Pandi (Greece)

PS02-26PM-218  HOW DOES FRONTAL CORTEX IMPACT ON EXPLORATORY DECISION MAKING IN MONGOLIAN GERBILS? INSIGHTS FROM A PROBABILISTIC FORAGING PARADIGM  
Speaker: Parthiban Saravanakumar (Germany)

PS02-26PM-219  FRONTAL THETA SIGNALS CONTEXTUAL SWITCHES DURING FLEXIBLE HUMAN TACTILE LEARNING  
Speaker: Rohan Rao (United Kingdom)

PS02-26PM-220  DYNAMICAL UPDATE OF EMOTIONAL VALUE-BASED REPRESENTATIONS IN PREFRONTAL NETWORKS  
Speaker: Anass El Azraoui (France)

PS02-26PM-221  DECISION STRATEGY ADAPTATION IS SUPPORTED BY SHIFTS IN DOPAMINERGIC RPE-MEDIATED CONTINGENCY REPRESENTATION  
Speaker: Maxime Come (France)

PS02-26PM-222  INVESTIGATING PREFRONTO-STRIATAL CIRCUIT DYNAMICS DURING FLEXIBLE DECISION-MAKING  
Speaker: Aron Koszeghy (Austria)

PS02-26PM-223  DISTINCT HYPOTHALAMUS-HABENULA CIRCUITS GOVERN RISK PREFERENCE  
Speaker: Dominik Groos (Switzerland)

PS02-26PM-224  NONLINEAR NEURAL CIRCUIT MODEL ACCOUNTS FOR NONHUMAN PRIMATES’ CHOICE BEHAVIOUR AND LIP NEURONAL ACTIVITY IN PERCEPTUAL DECISIONS UNCOUPLED FROM MOTOR ACTIONS  
Speaker: Brendan Lenfesty (United Kingdom)

PS02-26PM-225  DOPAMINERGIC COMPUTATION OF PREFERENCE MEASURES IN PROBABILISTIC DECISION MAKING  
Speaker: Mehrdad Salmasi (United Kingdom)
PS02-26PM-226  EMERGING FRONTAL CORTICAL REPRESENTATIONS DURING REWARD LEARNING  
Speaker: Marko Tvrdic (United Kingdom)

PS02-26PM-227  ORBITOFRONTAL CORTICAL CONTRIBUTIONS TO BEHAVIOURAL STRATEGIES DURING TACTILE REVERSAL LEARNING  
Speaker: Jasper Teutsch (United Kingdom)

PS02-26PM-228  PERSISTENCE OF NEURAL TUNING DYNAMICS IN RAT ORBITOFRONTAL CORTEX ACROSS TWO DECISION-MAKING TASKS  
Speaker: Gregory Knoll (Germany)

PS02-26PM-229  HOW VALUE REPRESENTATIONS ARE DISTRIBUTED ALONG THE PRIMATE BASAL GANGLIA CIRCUITS DURING DECISION-MAKING?  
Speaker: Milesa Simic (France)

PS02-26PM-230  VIP-TO-SST INTERNEURON FEEDBACK LOOP GUIDES CORTICAL REINFORCEMENT LEARNING  
Speaker: Zoltán Szadai (Hungary)

PS02-26PM-231  NEURAL SIGNATURES OF LEARNING AND EXPLOITING SENSORY STATISTICS IN A SOUND CATEGORISATION TASK IN RATS  
Speaker: Elena Menichini (United Kingdom)

PS02-26PM-232  NEURAL DYNAMICS OF CHOICE BEHAVIOR: INFLUENCE OF PRIOR CHOICES ON BASAL GANGLIA-ANTEROLATERAL MOTOR CORTEX (ALM) CIRCUITRY AND OPTOGENETIC MODULATION OF THE INDIRECT PATHWAY  
Speaker: Anya Stetsenko (United States)

PS02-26PM-233  DORSOLATERAL PREFRONTAL CORTEX NEURAL MODULATION DURING HEURISTIC BEHAVIOR IN A TWO LEVELS DECISION MAKING TASK IN MACAQUE MONKEYS  
Speaker: Sébastien Kirchherr (Italy)

PS02-26PM-234  SEARCHING FOR INPUT-OUTPUT CONNECTIVITY STREAMS IN THE VARIOUS SUBDIVISIONS OF MOUSE ORBITOFRONTAL CORTEX  
Speaker: Anushree Tripathi (Sweden)

PS02-26PM-235  FLEXIBLE UPDATING AND USE OF VALUE AND STRUCTURE IN AN ODOUR SEQUENCE TASK  
Speaker: David Orme (United Kingdom)

Poster Sessions  
14:00 - 17:30

Poster Session 02 - Section 10  
PS02-26PM-115  SEX-DEPENDENT DIFFERENCES OF SHORT-TERM AEROBIC ENDURANCE EXERCISE ON SYSTEMIC LPS-INDUCED INFLAMMATION AND MICROGLIAL ACTIVATION IN YOUNG C57BL/6J MICE  
Speaker: Joana Augusto (Ireland)

PS02-26PM-116  A SEXUAL DIMORPHIC MICROGLIA RESPONSE MODULATES VISUAL CORTEX NETWORK ACTIVITY AFTER KETAMINE-ANESTHESIA.  
Speaker: Alessandro Venturino (Austria)

PS02-26PM-117  EXERCISE AND RISPERIDONE INTERVENTION IMPROVING NEUROPLASTICITY IN JUVENILE FEMALE RATS  
Speaker: Weijie Yi (Australia)
PS02-26PM-118 - PATERNAL EXPOSURE TO VOLUNTARY EXERCISE OR CORTICOSTERONE MODIFIES THE SPERM LONG NONCODING RNA PROFILE, AND THEIR MICROINJECTION ALTERS ADULT BEHAVIOURAL ENDOPHENOTYPES

Speaker: Lucas Hoffmann (Australia)

PS02-26PM-119 - SEX-DEPENDENT EFFECTS OF VOLUNTARY PHYSICAL EXERCISE ON OBJECT RECOGNITION MEMORY RESTORATION AFTER TRAUMATIC BRAIN INJURY IN MIDDLE-AGED RATS

Speaker: David Costa (Spain)

PS02-26PM-120 - SEX-BASED DIFFERENCES IN A MOUSE MODEL OF EXPERIMENTAL COLITIS HOUSED IN ENVIRONMENTAL ENRICHMENT

Speaker: Giulia Petracco (Austria)

PS02-26PM-121 - STRONGER AUDITORY STEADY-STATE RESPONSES IN MALE MICE

Speaker: Urte Jasinskyte (Lithuania)

PS02-26PM-122 - STRESS VULNERABILITY CONFERRED BY CX3CR1-DEFICIENCY IS SEXUALLY DIMORPHIC AND RESPONDS TO PHYSICAL EXERCISE IN MICE

Speaker: Inès Tran (Germany)

PS02-26PM-123 - SEX-RELATED IMPAIRMENT OF SYNAPTIC PLASTICITY IN THE HIPPOCAMPUS OF HYPERGRAVITY-EXPOSED MICE: NEW INSIGHTS FOR SPACE COGNITION

Speaker: Mathilde Wullen (France)

PS02-26PM-124 - CHANGES OF NLRP3 INFLAMMASOME REGULATION IN THE FRONTAL CORTEX INDUCED BY VOLUNTARY WHEEL RUNNING IN OVARIECTOMIZED FEMALE ADULT MICE

Speaker: Konstancja Grabowska (Poland)

PS02-26PM-125 - NON-INVASIVE SENSORY STIMULATION MITIGATES STRESS-INDUCED NEUROIMMUNE RESPONSES IN A SEX- AND FREQUENCY-SPECIFIC MANNER

Speaker: Tina Franklin (United States)

PS02-26PM-126 - INVESTIGATING THE IMPACT OF LONG-TERM ENDURANCE EXERCISE ON COGNITIVE FUNCTION AND NEUROINFLAMMATION IN MALE AND FEMALE C57BL/6J MICE

Speaker: Zsuzsanna Barad (Ireland)

PS02-26PM-127 - ENVIRONMENTAL ENRICHMENT EFFECTS ON HIPPOCAMPAL MICROGLIA AND ADULT NEUROGENESIS

Speaker: Jorge Valero (Spain)

PS02-26PM-128 - INVESTIGATING THE EFFECTS OF CHRONIC AEROBIC EXERCISE ON COGNITIVE DEFICITS AND INFLAMMATORY MARKERS IN THE SUB-CHRONIC PHENCYCLIDINE MOUSE MODEL FOR SCHIZOPHRENIA RESEARCH

Speaker: Katie Landreth (United Kingdom)

PS02-26PM-129 - DORSAL HIPPOCAMPAL CA3-CA1 LONG-TERM PLASTICITY AND THE EFFECT OF AEROBIC EXERCISE IN ANAESTHETISED AND AWAKE SUB-CHRONIC PHENCYCLIDINE RAT MODEL FOR SCHIZOPHRENIA

Speaker: Ningyuan Sun (United Kingdom)
PS02-26PM-390 - ACUTE, ULTRA-LOW DOSE DELTA-9-THC AMELIORATES AGE-RELATED COGNITIVE IMPAIRMENTS IN MICE

Speaker: Meitar Grad (Israel)

PS02-26PM-391 - THE IMPACT OF THC ON NEUROGENESIS AND STRESS RESPONSE: AN IN VITRO INVESTIGATION IN ASTROCYTES

Speaker: Tehila Cohen (Israel)

PS02-26PM-392 - DELTA9-TETRAHYDROCANNABINOL AND CANNABIDIOL MODULATE HIPPOCAMPAL GLUTAMATE DYNAMICS IN AN ANIMAL MODEL OF ALZHEIMER’S DISEASE

Speaker: Nuria Sánchez Fernández (Spain)

PS02-26PM-393 - THE EFFECT OF PHYTOCANNABINOIDS ON NEURONAL HUMAN KV7 CHANNELS AND THEIR UNDERLYING MECHANISMS

Speaker: Michael Pökl (Sweden)

PS02-26PM-394 - CANNABIDIOL MODULATED COMPENSATION OF RADIATION INDUCED ALTERATIONS IN HIPPOCAMPAL SYNAPTIC PLASTICITY AND NEURONAL FUNCTION

Speaker: Markus Ballmann (Germany)

PS02-26PM-395 - NEUROTOXICITY OF CUMYL-PINACA SYNTHETIC CANNABINOID: INVOLVEMENT OF MULTIPLE CANNABINOID RECEPTORS

Speaker: Damijana Mojca Jurič (Slovenia)

PS02-26PM-396 - TARGETING THE DYSFUNCTIONAL ENDOCANNABINOID SYSTEM IN GULF WAR ILLNESS

Speaker: Kwang-Mook Jung (United States)

PS02-26PM-397 - BRAIN-WIDE EFFECTS OF CANNABINOIDS, MEASURED BY FUNCTIONAL ULTRASOUND IMAGING, SHOW STRONG CORRELATION WITH CB1R ACTIVATION AND BEHAVIOR IN AWAKE MICE

Speaker: Samuel Le Meur-Diebolt (France)

PS02-26PM-398 - DNA METHYLATION PATTERN CHANGES AFTER EXPOSURE TO DELTA-9-TETRAHYDROCANNABINOL (THC) IN HUMAN PERIPHERAL BLOOD MONONUCLEAR CELLS

Speaker: Kerda Pulk (Estonia)

PS02-26PM-399 - SEVERAL PHYTOCANNABINOIDS INDUCE SEDATION IN RATS

Speaker: Ieva Pocevičiute (Lithuania)

PS02-26PM-400 - CANNABIDIOL PREVENTION OF COGNITIVE DEFICITS IN A RAT MODEL FOR ALZHEIMER’S DISEASE IS ASSOCIATED WITH NEUROINFLAMMATION

Speaker: Roni Shira Toledano (Israel)

PS02-26PM-401 - MODULATION OF AGEING MICE MICROGLIA FUNCTIONS DURING NEUROINFLAMMATION USING SYNTHETIC CANNABINOIDS

Speaker: Akshay Kumar Vijaya (Lithuania)

PS02-26PM-402 - STRUCTURE-BASED DISCOVERY OF CANNABINOID ANALOGS WITH REDUCED ADVERSE EFFECTS

Speaker: Yu-Ying Liao (China)

PS02-26PM-403 - EXPRESSION OF THE ENDOCANNABINOID SYSTEM IN THE VISUAL CORTEX: IMPLICATIONS FOR CANNABINOID RESEARCH

Speaker: Catarina Micaelo Fernandes (Canada)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 81
PS02-26PM-065  ROLE OF NUCLEUS INCERTUS IN SHAPING INTERPEDUNCULAR NUCLEUS ACTIVITY - NEW NEURONAL MECHANISM UNDERLYING NOVELTY PREFERENCE IN RATS

Speaker: Patryk Sambak (Poland)

PS02-26PM-066  NGF-SENSITIVE INTERPEDUNCULAR NUCLEUS (IPN) NEURONS IN CIRCUITS SHAPING SOCIAL BEHAVIOUR: ANATOMICAL AND FUNCTIONAL STUDIES OF THE NUCLEUS INCERTUS-IPN-VENTRAL HIPPOCAMPUS AXIS

Speaker: Sylwia Drabik (Poland)

PS02-26PM-067  MATERNAL SEPARATION MODIFIES THE STRESS SENSITIVITY, ELECTROPHYSIOLOGY AND MORPHOLOGY OF RAT NUCLEUS INCERTUS NEURONS

Speaker: Anna Gugula (Poland)

PS02-26PM-068  UNRAVELLING THE COMPLEXITY OF STRESS AND REWARD PROCESSING: THE INNERVATION OF MIDBRAIN NUCLEI BY THE NUCLEUS INCERTUS - ANATOMICAL, ELECTROPHYSIOLOGICAL AND BEHAVIOURAL STUDIES IN RATS

Speaker: Joanna Roszkowska (Poland)

PS02-26PM-069  UNRAVELING THE COMPLEXITY OF STRESS AND REWARD PROCESSING: NUCLEUS INCERTUS RESPONSES TO NOXIOUS STIMULUS - ELECTROPHYSIOLOGICAL, ANATOMICAL AND IMMEDIATE EARLY GENE EXPRESSION STUDIES

Speaker: Olga Mierniczek (Poland)

PS02-26PM-070  PSYCHOSOCIAL AND PHYSICAL STRESS MODULATE NORADRENERGIC SIGNALING IN THE VENTRAL SEGMENTAL AREA-NUCLEUS ACCUMBENS CIRCUIT

Speaker: Zuzanna Sulich (Poland)

PS02-26PM-071  STIMULI-EVOKED NORADRENERGIC ACTIVITY IN THE VTA DRIVES PHASIC DOPAMINE RELEASE IN THE NUCLEUS ACCUMBENS - PRELIMINARY RESULTS

Speaker: Aleksandra Kaczmarska (Poland)

PS02-26PM-072  NEUROMODULATORY ROLE OF RELAXIN-3/RXFP3 SIGNALING IN STRESS- AND ANXIETY-RELATED CIRCUITS: INSIGHTS FROM THE RAT VENTRAL DENTATE GYRUS

Speaker: Gabriela Stopka (Poland)

PS02-26PM-073  UNVEILING A NOVEL NEUROPEPTIDE INTERPLAY: OPPOSING ACTIONS OF OXYTOCIN AND RELAXIN-3 ON VENTRAL HIPPOCAMPAL DENTATE GYRUS NEURONAL ACTIVITY - RAT AND HUMAN STUDIES

Speaker: Aleksandra Trenk (Poland)

PS02-26PM-074  NEUROCHEMISTRY AND FUNCTIONAL CONNECTIVITY OF THE NUCLEUS INCERTUS-VENTRAL HIPPOCAMPAL PATHWAY: POSSIBLE INVOLVEMENT IN ANXIETY CONTROL IN RATS AND HUMANS

Speaker: Kinga Przybylska (Poland)

PS02-26PM-075  EXPLORING DYNAMIC INTERACTION OF OXYTOCIN AND RELAXIN-3 IN MODULATING VENTRAL CA3 NEURONAL ACTIVITY IN RATS - INSIGHTS FROM MOLECULAR AND NEUROPHYSIOLOGICAL STUDIES

Speaker: Aleksandra Nogaj (Poland)

PS02-26PM-076  EFFECT OF ACUTE AND CHRONIC ACTIVATION OF RELAXIN-3 RECEPTOR (RXFP3) ON CONTEXTUAL FEAR ACQUISITION AND EXTINCTION IN THE RAT RETROSPLENIAL CORTEX

Speaker: Mónica Navarro Sánchez (Spain)
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THE BRAIN OF APOE DEFICIENT MICE

Speaker: Selcen Abidin (Turkey)

PS02-26PM-322 - NEW INSIGHTS INTO PHYSIOLOGY OF AGED-RELATED COGNITIVE DISORDERS: THE DNA REPAIR PROTEIN ATR

Speaker: Sabrina Briguglio (Italy)

PS02-26PM-323 - KCC2 PHARMACOLOGICAL TARGETING AS A NOVEL THERAPEUTIC STRATEGY TO RESCUE COGNITIVE DECLINE OF AGING

Speaker: Alessandra Cucinelli (Italy)

PS02-26PM-324 - IMPROVING GLUTAMATE METABOLISM TO SIMULTANEOUSLY ADDRESS ENERGETIC FAILURE AND CELL DYSFUNCTIONS IN ALZHEIMER’S DISEASE

Speaker: Tiziano Serfilippi (Italy)

PS02-26PM-325 - UNCONVENTIONAL INTRACELLULAR SIGNALING PATHWAY UNDERLYING CHOLINERGIC MUSCARINIC RECEPTOR-INDUCED AXONAL ACTION POTENTIAL THRESHOLD PLASTICITY IN HIPPOCAMPAL NEURONS

Speaker: Haojie Sun (United Kingdom)

PS02-26PM-326 - APOE CHRISTCHURCH: ALTERNATIVE MECHANISMS OF PROTECTION

Speaker: Paula Perez (United States)

PS02-26PM-327 - BACE1 DEPENDENT EFFECTS OF IL-6 ON CORTICAL CIRCUITS

Speaker: Buket Ucar Franke (Austria)

PS02-26PM-328 - THE INHIBITOR OF BROMODOMAIN AND EXTRATERMINAL DOMAIN (BET) PROTEINS, OTX-015, MITIGATES THE HIPPOCAMPAL AMYLOID-B LOAD IN MICE SUBJECTED TO PRENATAL STRESS

Speaker: Grzegorz Czapski (Poland)

PS02-26PM-329 - PROTEIN LEVELS AND POST-TRANSLATIONAL MODIFICATIONS OF INHIBITORY SYNAPSE PROTEINS IN THE MAMMALIAN BRAIN ARE REGULATED BY THE PLANT DERIVED ARTEMISININS.

Speaker: Eva Kiss (Romania)

PS02-26PM-330 - AMYLOID-B PRODUCTION AND FUNCTION ARE NEEDED FOR CYCLIC NUCLEOTIDES-MEDIATED ENHANCEMENT OF SYNAPTIC PLASTICITY AND MEMORY

Speaker: Valeria Vacanti (Italy)

PS02-26PM-331 - MICROGLIA MEDIATE ΑΒ-INDUCED HOMEOSTATIC SYNAPTIC PLASTICITY

Speaker: Christos Galanis (Germany)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 33

PS02-26PM-332 - ASTROGLIAL CONTROL OF PREFRONTAL DOPAMINE TONE SHAPE BEHAVIOR.

Speaker: Juliette Royer (France)

PS02-26PM-333 - SHUTTLE OF DOPAMINE THROUGH ASTROGLIAL NETWORKS REGULATES PREFRONTAL NEUROTRANSMISSION

Speaker: Xia Li (France)

PS02-26PM-334 - LOCAL RELEASE OF MONOAMINES IN THE CEREBELLAR CORTEX.

Speaker: Sambre Mach (France)
PS02-26PM-335  AUTOMATED DETECTION AND ANALYSIS OF SPONTANEOUS NEUROTRANSMITTER RELEASES FROM NEURONS AND ASTROCYTES  
**Speaker:** Wenli Niu (France)

PS02-26PM-336  ASTROCYTIC CONTROL OF DOPAMINE CONTRIBUTES TO ADDICTION AND REWARD  
**Speaker:** Olga Chaikovska (France)

PS02-26PM-337  THE ROLE OF ASTROCYTIC METABOTROPIC GLUTAMATE RECEPTOR 5 IN MOOD AND COGNITION  
**Speaker:** João Viana (Portugal)

PS02-26PM-338  ASTROCYTIC FOXO1 REGULATES HIPPOCAMPAL SPINOGENESIS AND SYNAPTIC PLASTICITY AND ENHANCES FEAR MEMORY  
**Speaker:** Daniela Sofia Abreu (Portugal)

PS02-26PM-339  REGIONAL ROLES OF ASTROCYTIC FOXO1 IN THE MODULATION OF BEHAVIOR  
**Speaker:** Alexandra Veiga (Portugal)

PS02-26PM-340  THE ROLE OF ASTROCYTIC METABOTROPIC GLUTAMATE RECEPTOR 5 IN SOCIAL BEHAVIOR  
**Speaker:** Duarte Dias (Portugal)

PS02-26PM-341  ASSESSING HISTOLOGICAL PROCESSING OF MOUSE BRAIN TISSUE FOR THE RECONSTRUCTION OF TRIDIMENSIONAL ASTROCYTE STRUCTURE  
**Speaker:** Sara Barsanti (Portugal)

PS02-26PM-342  ASTROCYTE CALCIUM SIGNALING INVOLVEMENT IN HIPPOCAMPUS-PREFRONTAL CORTEX  
**Speaker:** João Machado (Portugal)

PS02-26PM-343  UNRAVELING THE NEUROGENIC NICHE SYMPHONY: HIPPOCAMPAL ASTROCYTES MITIGATE MICROGLIAL REACTIVITY TO INFLAMMATION  
**Speaker:** Marta Vilademunt Alcaide (Switzerland)

PS02-26PM-344  THE ANALYSIS FOR THE OXT-DA INTERACTION CAUSING SOCIAL RECOGNITION DEFICIT IN SYNTAXIN1A KO  
**Speaker:** Tomonori Fujiwara (Japan)

PS02-26PM-345  LOW-INTENSITY REPETITIVE PULSED ULTRASOUND STIMULATION SUPPRESSES NEURAL ACTIVITY VIA EFFECTS ON ASTROCYTES  
**Speaker:** Tatsuya Mishima (Japan)

PS02-26PM-346  ROLE OF ASTROCYTES IN VISUAL SYNAPTIC TRANSMISSION AND PLASTICITY: IMPLICATIONS IN NEURODEVELOPMENTAL DISORDERS  
**Speaker:** Valentin Ritou (France)

PS02-26PM-347  THE ROLE OF ASTROGLIAL HOMEOSTATIC FUNCTIONING AND ASTROGLIA-NEURON INTERACTIONS IN NETWORK HYPEREXCITABILITY  
**Speaker:** Ahmed Jamali (Norway)

PS02-26PM-348  GLIAL CELLS UNDERGO RAPID CHANGES FOLLOWING ACUTE CHEMOCUTANEOUS MANIPULATION OF A SUBPOPULATION OF LAYER 5 PROJECTION NEURONS  
**Speaker:** Auguste Vadisiste (United Kingdom)

PS02-26PM-349  EPIGENETIC MODULATION OF ASTROCYTE REACTIVITY TO PREVENT NEURODEGENERATION  
**Speaker:** Andrea Villoria-González (Austria)
PS02-26PM-350  ADENOSINE TRIGGERS ASTROCYTE REACTIVITY TO DRIVE THE PATHOGENESIS OF SEPSIS-ASSOCIATED ENCEPHALOPATHY
Speaker: Qilin Guo (Germany)

PS02-26PM-351  LIGHT-DEPENDENT CAMP MODULATION IN ASTROCYTES TRIGGERS SYNAPTIC POTENTIATION, HEMODYNAMIC RESPONSES, AND BEHAVIOURAL CHANGES IN MICE: ROLE IN HUNTINGTON’S DISEASE
Speaker: Laia Sitjà Roqueta (Spain)

PS02-26PM-352  ASTROCYTIC CB1 RECEPTOR EFFECT UPON SYNAPTIC PLASTICITY IN THE MEDIAL PREFRONTAL CORTEX IS MODULATED BY ADENOSINE RECEPTORS
Speaker: Joana Gonçalves-Ribeiro (Portugal)

PS02-26PM-353  ALTERATION OF NEURON-ASTROCYTE INTERPLAY IN THE EARLY PHASE OF ALZHEIMER’S DISEASE
Speaker: Apolline Pierre (France)

PS02-26PM-354  SYNAPTIC SENTINELS: UNVEILING THE ROLE OF GLIAL CELLS IN ALZHEIMER’S PATHOGENESIS
Speaker: Akshay Kapadia (Netherlands)

PS02-26PM-355  ASTROCYTES PROVIDE THE TEMPORAL DYNAMIC REQUIRED FOR THETA DRIVEN MEMORY FORMATION IN THE HIPPOCAMPUS
Speaker: Silas Larsen (Denmark)

PS02-26PM-356  RESCUE OF ASTROCYTE ACTIVITY BY THE CALCIUM SENSOR STIM1 RESTORES LONG-TERM SYNAPTIC PLASTICITY IN AN ALZHEIMER’S DISEASE MOUSE MODEL
Speaker: Annamaria Lia (Italy)

PS02-26PM-357  STRUCTURAL REMODELING OF NEURAL CIRCUITS VIA ENGINEERED NEURO-GLIAL INTERACTIONS
Speaker: Shinheun Kim (Korea, Republic of)

PS02-26PM-358  THE PARADOXAL ROLE OF ADENOSINE A2A RECEPTOR IN THE CONTROL OF SYNAPSE STABILIZATION AND ELIMINATION
Speaker: Sabine Lévi (France)

PS02-26PM-359  LAVANDULA ANGSTIFOLIA OR ASTROCYTES ALLEVIATE NICOTINE PLUS HIGH GLUCOSE-INDUCED INTRACELLULAR CA²⁺ ELEVATION IN NEURONS AND MICROGLIA
Speaker: Geun Hee Seol (Korea, Republic of)

PS02-26PM-360  METABOLIC CROSS-TALK BETWEEN ASTROCYTES AND NEURONS: IMPLICATIONS FOR ALZHEIMER’S DISEASE
Speaker: Alessandra Preziuso (Italy)

PS02-26PM-361  DYSREGULATION OF ASTROCYTIC ACTIVITY MEDIATES GLYMPHATIC DYSFUNCTION AND COGNITIVE IMPAIRMENT IN ALZHEIMER’S DISEASE
Speaker: Wei-Jye Lin (China)

PS02-26PM-362  DEVELOPMENTAL ALTERATION OF ASTROCYTIC CA²⁺ SIGNALING MEDIATED BY METABOTROPIC GLUTAMATE RECEPTORS IN THE OLFACTORY BULB
Speaker: Fatemeh Mohammadpour (Germany)

PS02-26PM-363  ASTROCYTE NORADRENALINE A-1A RECEPTOR ACTIVATION INDUCES CHANGES TO INHIBITORY SYNAPTIC TRANSMISSION IN THE HIPPOCAMPUS AND REDUCES THE FREQUENCY OF PHARMACORESISTANT SPONTANEOUS SEIZURES
Speaker: Marcus Dyer (Belgium)
PS02-26PM-364 - PURINERGIC CALCIUM SIGNALING IN ASTROCYTES OF THE MOUSE MEDIAL PREFRONTAL CORTEX
Speaker: Jennifer Bostel (Germany)

PS02-26PM-365 - DECIPHERING THE ASTROCYTIC CONTRIBUTION TO LEARNING AND RELEARNING
Speaker: Pietro Verzelli (Germany)

PS02-26PM-366 - INTRACELLULAR CA^{2+} SIGNAL IN HIPPOCAMPAL ASTROCYTES FROM WT AND A7KO MICE ALONG AGING.
Speaker: Micaela Zonta (Italy)

PS02-26PM-367 - ASTROCYTES ACT AS DETECTORS OF SENSORY INPUT AND CALCIUM DEPENDENT REGULATORS OF EXPERIENCE DEPENDENT PLASTICITY IN CORTICAL NETWORKS
Speaker: Rheinallt Parri (United Kingdom)

PS02-26PM-368 - NOVEL PATHWAYS TRANSLATING ASTROCYTE-DERIVED SIGNALLING INTO CELL FATE SPECIFICATION OF NEURAL PROGENITOR CELLS: RELEVANCE IN NEURODEVELOPMENT AND NEURODEGENERATION.
Speaker: Mariagrazia Grilli (Italy)

Poster Sessions
14:00 - 17:30

Poster Session 02 - Section 95

PS02-26PM-269 - SPATIO-TEMPORAL DYNAMICS OF STRIATAL ASTROCYTE NEUROGENIC ACTIVATION AFTER INJURY REVEAL WIDESPREAD POTENTIAL BEYOND KNOWN NICHES.
Speaker: Marco Fogli (Italy)

PS02-26PM-270 - ASTROCYTE-GENERATED NEURONS FUNCTIONALLY INTEGRATE INTO THE LESIONED STRIATUM
Speaker: Giulia Nato (Italy)

PS02-26PM-271 - LESION INDUCED NEUROBLASTS IN THE STRIATUM ARE LGE-CLASS INTERNEURONS AND ARE NOT FATED TOWARDS ADULT STRIATAL NEURON CELL TYPES
Speaker: Federico Luzzati (Italy)

PS02-26PM-272 - CHARACTERIZATION OF ADULT NEUROGENESIS IN ACOMYS CAHIRINUS BY LINEAGE TRACING ANALYSIS
Speaker: Inês Araújo (Portugal)

PS02-26PM-273 - DENTATE GRANULE CELL NEUROGENESIS IN ADULT MICE FOLLOWING DENERVATION IN THE ENTORHINAL CORTEX LESION MODEL
Speaker: Fran Božić (Croatia)

PS02-26PM-274 - ARE THE MATURATION RATES OF ADULT-BORN HIPPOCAMPAL AND CORTICAL NEURONS DIFFERENT?
Speaker: Bruno Benedetti (Austria)

PS02-26PM-275 - ADULT HIPPOCAMPAL NEUROGENESIS, THE POST-MORTEM DELAY, AND PROLONGED ALDEHYDE FIXATION: THE ENEMIES WITHIN
Speaker: Marta Gallardo Caballero (Spain)

PS02-26PM-276 - PREGNANCY-RESPONSIVE POOLS OF ADULT NEURAL STEM CELLS FOR TRANSIENT NEUROGENESIS IN MOTHERS
Speaker: Zayna Chaker (France)

PS02-26PM-277 - IMMUNOHISTOCHEMICAL CHARACTERIZATION OF THE DEVELOPING NAKED MOLE RAT BRAIN

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Scientific programme

Speaker: Niamh Carr (Germany)
PS02-26PM-278  STUDYING THE EFFECT OF FOSFOMYCIN ON HIPPOCAMPAL NEUROGENESIS IN ADULT RATS

Speaker: Wassim Abou-Kheir (Lebanon)
PS02-26PM-279  IDENTIFICATION OF NEURAL PROGENITOR CELL-LIKE IN LATERAL VENTRICLE OF MOUSE EARLY EMBRYO

Speaker: Suk Hyung Kim (Korea, Republic of)
PS02-26PM-280  NON-DIVIDING “IMMATURE” NEURONS IN SUBCORTICAL BRAIN REGIONS OF MAMMALS DISPLAY PHYLOGENETIC VARIATION WITH CLEAR PREVALENCE IN PRIMATES

Speaker: Marco Ghibaudi (Italy)
PS02-26PM-281  NEUROBLAST CHAINS IN THE JUVENILE SWINE VENTRICULAR-SUBVENTRICULAR ZONE ARE SPATIALLY ORGANIZED INTO DISTINCT CELLULAR LAYERS AND MIGRATE TOWARDS THE OLFACTORY BULB.

Speaker: Lucía Inés Torrijos Saiz (Spain)
PS02-26PM-282  VASCULAR DEVELOPMENT OF FETAL AND POSTNATAL NEOCORTEX OF THE PIG, THE EUROPEAN WILD BOAR SUS SCROFA.

Speaker: Eric Sobierajski (Germany)
PS02-26PM-283  THE ROLE OF TENASCIN C IN THE BIOMOLECULAR AND CELLULAR COMPOSITION OF ADULT SUBGRANULAR ZONE

Speaker: Milena Tucić (Serbia)
PS02-26PM-284  THE CONTROL OF STEM CELL QUIESCENCE IN EARLY POSTNATAL DENTATE GYRUS IS ESSENTIAL FOR ESTABLISHING LONG-LASTING ADULT HIPPOCAMPAL NEUROGENESIS

Speaker: Paula Tirado Melendro (Spain)
PS02-26PM-285  ADULT NEUROGENESIS IN THE DROSOPHILA OLFAC TORY SYSTEM

Speaker: Ismael Fernández-Hernández (Germany)
PS02-26PM-286  INVESTIGATING THE EFFECT OF MEROPENEM ON NEUROGENESIS IN ADULT RATS

Speaker: Maram Chaaban (Lebanon)
PS02-26PM-287  POSSIBLE ROLE OF NKCC1 IN THE PROLIFERATION OF HIPPOCAMPAL NEURAL STEM CELLS DURING ALZHEIMER’S DISEASE.

Speaker: Silke Keiner (Germany)

Scientific Symposia (S)
15:45 - 17:15

S09 - All-optical techniques for measuring and stimulating neuronal networks during naturalistic behavior
Chair: Gergely Szalay (Institute of Experimental Medicine, Hungary)
Chair: Anna Devor (Boston University, United States)

Introduction 15:45 - 15:47

In vivo 2P imaging of activity during embryonic development to study cortical circuits in neocortex 15:47 - 16:05

Speaker: Botond Roska (Institute of Molecular and Clinical Ophthalmology Basel (IOB), Switzerland)

Q&A 16:05 - 16:09

Hippocampal network dynamics identified in health and disease 16:09 - 16:27

Speaker: Attila Losonczy (Losonczy Lab, Zuckerman Institute, Columbia University, United States)
Scientific programme

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Imaging neuronal networks underlying hemodynamic signals across scales and measurement modalities

*Speaker:* Anna Devor (Boston University, United States)

Competition of cortical assemblies during on-demand visual learning in immersive virtual reality

*Speaker:* Balázs Rózsa (Institute of Experimental Medicine & BrainVisionCenter, Hungary)

Scientific Symposia (S)

**S10** - Neural mechanisms underlying spatial navigation and spatial memory across species

*Chair:* Lukas Kunz (University Hospital Bonn, Germany)

Introduction

*Speaker:* Kate Jeffery (University of Glasgow, United Kingdom)

Spatial representation in bat entorhinal cortex: from 3D grid cells to coding of position by action

*Speaker:* Gily Ginosar (Weizmann Institute of Science, Israel)

Using food-caching birds to study the neuroscience of episodic memory

*Speaker:* Dmitriy Aronov (Columbia University, United States)

Single-neuron representations of space in the human medial temporal lobe

*Speaker:* Lukas Kunz (University Hospital Bonn, Germany)

Scientific Symposia (S)

**S11** - Dynamic coupling of neural signals - causative or epiphenomenal?

*Chair:* Andreas Karl Engel (Dept. of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Germany)

*Causal role(s) of intrinsic coupling modes*

*Speaker:* Andreas Karl Engel (Dept. of Neurophysiology and Pathophysiology, University Medical Center Hamburg-Eppendorf, Germany)

Neural rhythms in the primate attention network predict visual detection behavior

*Speaker:* Sabine Kastner (Princeton University, United States)
Scientific programme

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Q&A 16:27 - 16:31

Causal contribution of neuron-to-neuron functional connectivity to perception and decision making 16:31 - 16:49

Speaker: Stefano Panzeri (University Medical Center Hamburg-Eppendorf, Germany)

Q&A 16:49 - 16:53

Rhythms for cognition: dynamic functional connectivity is causative! 16:53 - 17:11

Speaker: Pascal Fries (Max Planck Society, Germany)

Q&A 17:11 - 17:15

Scientific Symposia (S)

15:45 - 17:15

S12 - Finesse in motion: sensorimotor control in creatures great and small

Chair: Jonathan Whitlock (Kavli Institute for Systems Neuroscience, Norwegian University of Science and Technology, Norway)

Chair: Bing Brunton (University of Washington, Seattle, United States)

Introduction 15:45 - 15:47

Sensorimotor delays constrain robust locomotion in a 3D kinematic model of fly walking 15:47 - 16:05

Speaker: Bing Brunton (University of Washington, Seattle, United States)

Q&A 16:05 - 16:09

Sensorimotor circuits for dexterous movements in mice 16:09 - 16:27

Speaker: Eiman Azim (Salk Institute for Biological Studies, United States)

Q&A 16:27 - 16:31

Cortical integration of body posture and the vibrissae in freely exploring rats 16:31 - 16:49

Speaker: Jonathan Whitlock (Kavli Institute for Systems Neuroscience, Norwegian University of Science and Technology, Norway)

Q&A 16:49 - 16:53

Planning under uncertainty uncovers a functional gradient in frontal cortex 16:53 - 17:11

Speaker: Juan Gallego (Imperial College London, United Kingdom)

Q&A 17:11 - 17:15

Scientific Symposia (S)

15:45 - 17:15

S13 - State-dependent changes in the brain and behavior

Chair: Anna Levina (University of Tübingen, Germany)

Chair: Viola Priesemann (Max-Planck-Institute for Dynamics and Self-Organization, Germany)

Introduction 15:45 - 15:47

How plasticity shapes dynamical states for computation 15:47 - 16:05

Speaker: Claudia Clopath (Imperial College London, United Kingdom)

Q&A 16:05 - 16:09

Neural mechanisms that generate persistent behavioral states in C. elegans 16:09 - 16:27

Speaker: Steven Flavell (Massachusetts Institute of Technology, United States)
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<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker/Chair</th>
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<tr>
<td>15:45</td>
<td><strong>Scientific Symposia (S)</strong></td>
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<td>15:45</td>
<td><strong>S14 - Nanobodies as novel therapeutic agents for brain diseases</strong></td>
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<td>15:45</td>
<td>Nanobodies as sensors and modulators of opioid receptor activity</td>
<td>Miriam Stoeber (University of Geneva, Faculty of Medicine, Switzerland)</td>
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<td>15:45</td>
<td>A2A receptor-targeting nanobodies to relieve autistic-like behavior in mice</td>
<td>Julie Le Merrer (iBrain U1253, Université de Tours, Inserm, CNRS, France)</td>
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<td>15:45</td>
<td>A mGlu2 receptor nanobody rescues behavioral deficits in pre-clinical models of schizophrenia</td>
<td>Philippe Rondard (Institut de Génomique Fonctionelle, Université de Montpellier, CNRS, Inserm, France)</td>
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<td>15:45</td>
<td>Glucocorticoid regulation of GABA signaling in the central brain</td>
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<td>15:45</td>
<td><strong>S15 - Neuronal ensembles and engrams regulating alcohol- and drug-seeking</strong></td>
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<td>15:45</td>
<td>Role of the epigenetic enzyme EZH2 in compulsive alcohol intake</td>
<td>Estelle Barbier (Linköping University, Sweden)</td>
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<td>15:45</td>
<td>Transcriptomics of cocaine relapse ensembles identified by CaMPARI or Fos-mRFP in rat mPFC</td>
<td>Bruce Hope (National Institute on Drug Abuse, NIH, United States)</td>
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<td>15:45</td>
<td>Glucocorticoid regulation of GABA signaling in the central brain</td>
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amygdala in alcohol use disorder

*Speaker:* Sophia Khom (University of Vienna, Austria)

Q&A 16:49 - 16:53

Neuronal ensembles regulating opioid-motivated approach and avoidance behavior

*Speaker:* Hermina Nedelec (The Scripps Research Institute, United States)

Q&A 17:11 - 17:15

**Scientific Symposia (S)**
15:45 - 17:15

**S16 - Mitochondria: Key Players in Neuronal Function and Physiopathology of Neurological Disease**

*Chair:* Silvia De Marchis (Department of Life Sciences and Systems Biology & Neuroscience Institute Cavalieri Ottolenghi - University of Turin, Italy)

*Chair:* Michèle Studer (Institute of Biology Valrose, iBV Centre de Biochimie Univ. Côte d’Azur (UCA) CNRS 7277-Inserm, France)

**Introduction** 15:45 - 15:47

**Role of mitochondrial dynamics in new neuron synaptic plasticity** 15:47 - 16:05

*Speaker:* Matteo Bergami (University Hospital Cologne, Germany)

Q&A 16:05 - 16:09

**Nr2f1 and Mitochondrial Shaping in the physiopathology of the neurodevelopmental disorder BBSOAS** 16:09 - 16:27

*Speaker:* Sara Bonzano (University of Turin, Italy)

Q&A 16:27 - 16:31

**Mitochondrial stress activates neuron-specific transcriptional reprogramming and regulates neuronal function in Drosophila** 16:31 - 16:49

*Speaker:* Joseph Bateman (King’s College London, United Kingdom)

Q&A 16:49 - 16:53

**CHCHD10-related mitochondrial dysfunction in neuronal death: from gene to therapeutic approaches** 16:53 - 17:11

*Speaker:* Veronique Paquis-Flucklinger (IRCAN, UMR 7284/INSERM U1081/UCA, Nice Côte d’Azur University, France)

Q&A 17:11 - 17:15

**Award Ceremony (AC)**
17:15 - 17:30

**AC01 - Peter Seeburg Integrative Neuroscience Prize Ceremony**

**Plenary Lecture (PL)**
17:30 - 18:30

**PL03 - Plenary Lecture, Kay Tye (US)**

**Neural mechanisms of social homeostasis** 17:30 - 18:30

*Speaker:* Kay Tye (Howard Hughes Medical Institute, The Salk Institute, La Jolla, CA, USA, United States)

**Networking Events (NE)**
18:45 - 20:15

**NE07 - The 10-Year anniversary of the FENS-Kavli Network (FKNE): a decade of changing neuroscience**

**Event Description** 18:45 - 18:45
Networking Events (NE)  
18:45 - 20:15  

**NE08 - Collaboration Call - Infrastructure and community for preclinical systematic reviews in neuroscience**

Event Description  
18:45 - 18:45

Preliminary Programme  
18:45 - 18:45

Speakers  
18:45 - 18:45

Speaker: Sarah McCann (Germany)  
Speaker: Ralf Watzlawick (Germany)  
Speaker: Adam Ferguson (United States)

Networking Events (NE)  
18:45 - 20:15  

**NE09 - Meet EBRAINS Research Infrastructure: the digital state-of-the-art ecosystem for neuroscience**

Event Description  
18:45 - 18:45

Preliminary Programme  
18:45 - 18:45

Speakers  
18:45 - 18:45

Speaker: Philippe Vernier (France)  
Speaker: Wouter Klijn (Germany)  
Speaker: Maja Amedjkouh Puchades (Norway)  
Speaker: Judith Katrein (Austria)

Networking Events (NE)  
18:45 - 20:15  

**NE10 - Wellcome/FENS Forum: Bridging the gap - a mental health networking event**

Event Description  
18:45 - 18:45
Thursday, 27 June 2024

**Plenary Lecture (PL)**
08:30 - 09:30

**PL04 - Plenary Lecture, Malin Parmar (SE)**
08:30 - 08:30

Developing stem cell therapy for Parkinson's Disease: the interplay of translational and experimental studies

*Speaker*: Malin Parmar (Lund University, Sweden)

**Poster Sessions**
09:30 - 13:00

**Poster Session 03 - Section 59**
Posters

- **PS03-27AM-570** NEURONAL SIGNATURE OF SPATIAL MEMORY IN THE HIPPOCAMPUS OF HOMING PIGEONS
  *Speaker*: Marie Ziegler (Germany)

- **PS03-27AM-571** FUNCTIONAL MRI OF SLEEPING PIGEONS
  *Speaker*: Mehdi Behroozi (Germany)

- **PS03-27AM-572** A WINDOW INTO THE AWAKE AVIAN BRAIN: RESTING-STATE NETWORK CONNECTIVITY IN PIGEONS
  *Speaker*: Alaleh Sadraee (Germany)

- **PS03-27AM-573** ASSESSING NEOPHILIA AND NEOPHOBIA IN PIGEONS
  *Speaker*: Mary Flaim (Germany)

- **PS03-27AM-574** FROM PATCH TO PATCH: A 3D POSE TRACKING STUDY OF PIGEON FORAGING BEHAVIOR
  *Speaker*: Guillermo Hidalgo Gadea (Germany)

- **PS03-27AM-575** ACHIEVING CELL-TYPE SPECIFIC TRANSDUCTION WITH ADENOVIRAL VECTORS IN PIGEONS (COLUMBA LIVIA)
  *Speaker*: Kevin Haselhuhn (Germany)

- **PS03-27AM-576** FIBER DENSITY ANALYSIS OF THE CATECHOLAMINERGIC PROJECTIONS IN THE JAPANESE QUAIL
  *Speaker*: Sinem Gençtürk (Turkey)

- **PS03-27AM-577** PIGEONPOSE: AN INTEGRATED PIPELINE FOR MARKERLESS 3D TRACKING OF PIGEON BEHAVIOR
  *Speaker*: Noemi Rook (Germany)

- **PS03-27AM-578** HIPPOCAMPAL CODING: A STUDY ON SPATIAL COGNITION IN PIGEONS
  *Speaker*: Masahiro Inda (Germany)

- **PS03-27AM-579** A BEHAVIORAL STUDY TO INVESTIGATE FLASH SUPPRESSION IN PIGEONS
  *Speaker*: Gianmarco Maldarelli (Germany)

- **PS03-27AM-580** THE FUNCTIONAL PROPERTIES OF THREE FOREBRAIN STAGES OF THE PIGEON TECTOFUGAL SYSTEM
  *Speaker*: Celil Semih Sevincik (Germany)

- **PS03-27AM-581** ENACTED COGNITION - PIGEONS’ PECKING BEHAVIOR IS PREDICTIVE OF THEIR UPCOMING CHOICE
  *Speaker*: Robert Willma (Germany)

- **PS03-27AM-582** SINGLE CELL CORRELATES OF MULTITASKING IN HIGHER ASSOCIATIVE AREAS OF THE PIGEON BRAIN
  *Speaker*: John Tuff (Germany)
PS03-27AM-583  DISSOCIATIONS BETWEEN CHOICE, EFFORT, AND PROFITABILITY IN PIGEONS
Speaker: Patrick Anselme (Germany)

PS03-27AM-584  NEURAL REPRESENTATION OF CONSPECIFICS IN THE PIGEON’S VISUAL STREAM
Speaker: Sara Silva (Germany)

PS03-27AM-585  BEHAVIORAL MECHANISMS OF COGNITIVE CONTROL IN JACKDAWS (CORVUS MONEDULA): INVESTIGATING ATTENTION AND WORKING MEMORY
Speaker: Farina Lingstädt (Germany)

PS03-27AM-586  STIMULUS CONTIGUITY DETERMINES CONTEXT IN APPETITIVE EXTINCTION LEARNING.
Speaker: Juan Medina Peschken (Germany)

PS03-27AM-587  ANALYZING VOCALIZATION BEHAVIOR OF JACKDAWS (CORVUS MONEDULA) USING CROWTONE, A SUITE OF MODERN TECHNIQUES INCLUDING DEEP NEURAL NETWORKS.
Speaker: Lutz Wehrland (Germany)

PS03-27AM-588  DECODING VISUAL PROCESSING IN PIGEON PALLIUM
Speaker: Wei Lin Seah (Germany)

PS03-27AM-589  HOME VECTOR DEGRADES OVER SHORT TIMESCALES DURING PATH INTEGRATION IN THE FIDDLER CRAB, LEPTUCA PUGILATOR
Speaker: Ruma Chatterji (United States)

PS03-27AM-590  USING MINECRAFT TO INVESTIGATE THE NEUROBIOLOGICAL MECHANISMS OF HUMAN HUNTING BEHAVIOUR
Speaker: Emre Yavuz (United Kingdom)

PS03-27AM-591  MORPHOLOGICAL AND VOLUMETRIC ANALYSES OF THE BRAIN OF TWO PINNIPED SPECIES – DO THEY SHOW PARALLELS WITH CETACEAN BRAINS?
Speaker: Nina Patzke (Germany)

PS03-27AM-592  TOWARDS THE NEURAL BASIS OF THE MAGNETIC SENSE IN SUBTERRANEAN MOLE-RATS: BEHAVIOR AND RECORDINGS
Speaker: Pascal Malkemper (Germany)

PS03-27AM-593  THE INVOLVEMENT OF THE DOPAMINERGIC SYSTEM IN TUMBLING BEHAVIOR OF PIGEONS (COLUMBA LIVIA)
Speaker: Buse Pınar Cankurtaran (Turkey)

PS03-27AM-594  NEURAL REPRESENTATION OF COLOR IN THE PIGEON BRAIN
Speaker: Simon Nimpf (Germany)

PS03-27AM-595  A MINIMAL MAGNETOSENSORY CIRCUIT IN THE PIGEON BRAIN
Speaker: Spencer Balay (Germany)

Poster Sessions
09:30 - 13:00
Poster Session 03 - Section 97
PS03-27AM-047  NEUROLIGIN-2 DIFFERENTIALLY REGULATES INNATE AND CONDITIONED DEFENSIVE BEHAVIORS THROUGH DISTINCT AMYGDALA CIRCUITS
Speaker: Diego Pascual Cuadrado (Germany)

PS03-27AM-048  NEUROANATOMICAL CHARACTERISATION OF THE CELL ADHESION MOLECULE IGSF9B REVEALS HETEROGENEOUS SYNAPTIC LOCALIZATION ACROSS DIFFERENT REGIONS OF THE
MOUSE BRAIN

**Speaker:** Federico Rotondo (Germany)

**PS03-27AM-049** IMPAIRED EXCITATORY AND INHIBITORY SYNAPTIC PLASTICITY IN THE NLGN3-R451C MOUSE MODEL OF AUTISM SPECTRUM DISORDER

**Speaker:** MARTINA BRUNO (Italy)

**PS03-27AM-050** THE ROLE OF TCF7L2 TRANSCRIPTION FACTOR IN THE FUNCTION OF THALAMOCORTICAL CIRCUITS

**Speaker:** Katarzyna Hryniewiecka (Poland)

**PS03-27AM-051** HETEROZYGOSITY FOR NEURODEVELOPMENTAL DISORDER-ASSOCIATED Trio VARIANTS LEAD TO DISTINCT DEFICITS IN NEURONAL DEVELOPMENT AND FUNCTION.

**Speaker:** Yevheniia Ishchenko (United States)

**PS03-27AM-052** DEFICIT OF PARVALBUMIN-POSITIVE INTERNEURONS AND OVERFUNCTION OF SOMATOSTATIN-POSITIVE INTERNEURONS ARE INVOLVED IN THE HIPPOCAMPUS-DEPENDENT COGNITIVE IMPAIRMENT OF THE TS65DN MOUSE MODEL OF DOWN SYNDROME

**Speaker:** Giulia Colombo (Italy)

**PS03-27AM-053** GENETIC BACKGROUND DETERMINES SYNAPTIC PHENOTYPES IN ARID1B HAPLOINSUFFICIENT MICE

**Speaker:** Hyosang Kim (Korea, Republic of)

**PS03-27AM-054** RABPHILIN3A: FROM NMDA RECEPTOR SYNAPTIC RETENTION TO NEURODEVELOPMENTAL DISORDERS

**Speaker:** Marta Barzasi (Italy)

**PS03-27AM-055** NEUROBEACHIN MEDIATES ACTIVITY-DEPENDENT CHANGES AT GABAERGIC SYNAPSES

**Speaker:** Felix Lützenkirchen (Germany)

**PS03-27AM-056** DEFICIENCY OF THE HISTONE LYSINE DEMETHYLASE KDM5B ALTERS HISTONE METHYLATION AND GENE EXPRESSION IN THE DEVELOPING BRAIN AND CAUSES AUTISM-LIKE PHENOTYPES VIA INCREASED NMDAR SIGNALLING

**Speaker:** M. Albert Basson (United Kingdom)

**PS03-27AM-057** ROLE OF B3 INTEGRIN IN CORTICAL SYNAPTIC TRANSMISSION: RELEVANCE FOR EPILEPSY AND AUTISM

**Speaker:** Jessica Muià (Italy)

**PS03-27AM-058** THE ROLE OF NEUREXIN-1 ALPHA IN INHIBITORY SYNAPTIC FUNCTION AND CORTICAL EXCITATION-INHIBITION BALANCE

**Speaker:** Martyna Panasiku (United Kingdom)

**PS03-27AM-059** UPREGULATION OF NEGR1 CONVERGES INTO CORE IMPAIRED PROCESSES IN AUTISM SPECTRUM DISORDERS

**Speaker:** Mariam Marie Chellali (Italy)

**PS03-27AM-060** COMPARATIVE ELECTROPHYSIOLOGICAL ANALYSIS OF AV AND B3 INTEGRIN KNOCK-OUT MICE

**Speaker:** Riccardo Ruggeri (Italy)

**PS03-27AM-061** DECREASED SYNAPTIC GABAERGIC INHIBITION IN THE DENTATE GYRUS OF A MOUSE MODEL OF THE NEURODEVELOPMENTAL DISORDER BBsoas

**Speaker:** Eleonora Dallorto (Italy)

**PS03-27AM-062** DELVING INTO SYNAPTIC ACTIVITY IN AUTISM: NITRIC OXIDE PATHWAY AND GLUTAMATE/GABA RATIO

**Speaker:** Valeria Lorena Cabedo Navarro (Spain)
PS03-27AM-063  CEREBELLAR BDNF SIGNALING DOWNREGULATION AND AUTISTIC-LIKE TRAITS: INSIGHTS FROM A CHOLESTEROL STORAGE DISORDER MOUSE MODEL  
Speaker: Greta Massa (Italy)

PS03-27AM-064  PARVALBUMIN INTERNEURONS ARE RELATED WITH AUTISTIC-LIKE BEHAVIOURS AND ALTERED CORTICAL EXCITABILITY IN PVTRE/PDEH19 CKO MICE  
Speaker: Sara Riccardi (Italy)

PS03-27AM-065  SYNAPSIN TRIPLE KNOCKOUT MICE DISPLAY SOCIAL AND COGNITIVE DEFICITS COUPLED TO CORTICAL GLUTAMATERGIC DYSFUNCTION  
Speaker: Noemi Nicosia (Italy)

PS03-27AM-066  IMPAIRED FLEXIBILITY DURING SOCIAL LEARNING IN NLGN3-R451C ASD MODEL  
Speaker: Suin Lim (United States)

PS03-27AM-067  SORTING NEXIN 27 NEURONAL SILENCING IMPAIRS COGNITIVE FUNCTION AND INCREASES COCAINE SENSITIVITY  
Speaker: Gisela Armada (Portugal)

PS03-27AM-068  BEHAVIORAL REGRESSION IN SYN II KO MICE: FROM LATENT SYNAPTOPATHY TO OVERT DYSFUNCTIONS IN MULTISENSORY SOCIAL PROCESSING  
Speaker: Lorenzo Ciano (Italy)

PS03-27AM-069  CHEMOGENETIC ELEVATION OF HIPPOCAMPAL EXCITABILITY UNMASKS LATENT ASD RISKS IN NON-AUTISTIC MICE DIFFERING IN HIPPOCAMPAL AMBRA1 EXPRESSION AND/OR SEX  
Speaker: Margherita De Introna (Italy)

PS03-27AM-070  RECTIFYING INTERNEURON DEVELOPMENTAL TRAJECTORY PREVENTS THE CORE SYMPTOMS OF AUTISM SPECTRUM DISORDER IN MICE  
Speaker: Shaam Al Abed (Australia)

PS03-27AM-071  ALTERED EXCITATORY/INHIBITORY BALANCE IN THE PREFRONTAL CORTEX OF THE IB2 KO MOUSE MODEL OF AUTISM: FROM NEURONAL EXCITABILITY TO CEREBELLAR MODULATION IN VIVO  
Speaker: Eleonora Pali (Italy)

PS03-27AM-072  GRIK1 EXPRESSION AT OLM INTERNEURONS IN THE HIPPOCAMPUS AND MEMORY DEFICITS IN DOWN SYNDROME  
Speaker: Beatriz Fernández-Arroyo (Spain)

Poster Sessions  
09:30 - 13:00  

Poster Session 03 - Section 103  

PS03-27AM-251  INTERROGATING CDKL5 DEFICIENCY DISORDER USING HUMAN IPSCS-DERIVED CEREBRAL ORGANOIDs  
Speaker: Yao Zhu (Hong Kong)

PS03-27AM-252  FUNCTIONAL DISSECTION OF THE CORTICOHIPPOCAMPAL CIRCUIT UNDERLYING NEURONAL ENSEMBLE DYNAMICS IN SPATIAL LEARNING AND MEMORY  
Speaker: Haoyu Xu (Hong Kong)

PS03-27AM-253  HUMAN PLURIPOTENT STEM CELL-DERIVED ECTOMESenchymAL PROMote MORE ROBUST FUNCTIONAL RECOVERY THAN UMBILICAL CORD-DERIVED MESENCHYMAL STROMAL CELLS AFTER HYPOXIC-ISCHAEMIC BRAIN DAMAGE  
Speaker: Beatrix Fernández-Arroyo (Spain)
Speaker: Qingwen Deng (Hong Kong)

PS03-27AM-254  HUMAN PLURIPOTENT STEM CELL-DERIVED ECTOMESENCHYMAL CELLS PROMOTE NEUROGENESIS AND NEURITE OUTGROWTH IN RATS WITH HYPOXIC-ISCHEMIC BRAIN INJURY THROUGH THE ERK/CREB SIGNALING PATHWAY

Speaker: Jiawei Huang (Hong Kong)

PS03-27AM-255  INVESTIGATING THE ROLES OF EXCITATORY AND INHIBITORY MECHANISMS IN BINOCULAR MATCHING DURING DEVELOPMENT

Speaker: Hei Matthew Yip (Hong Kong)

PS03-27AM-256  HUMAN NEURODISORDERS

Speaker: Claudia Dell'Amico (Italy)

PS03-27AM-257  CORTICAL AND SPINAL ORGANOIDS TO BUILD THE CORTICOSPINAL TRACT

Speaker: Alessio Zanelli (Italy)

PS03-27AM-258  UNCOVERING SCHIZOPHRENIA THROUGH PATIENT IPSC-DERIVED THALAMIC NEURONS

Speaker: Marco Onorati (Italy)

PS03-27AM-259  TOWARD A COMPREHENSIVE IN VITRO MODEL OF THE HUMAN VISUAL SYSTEM: THREE-DIMENSIONAL ASSEMBLOIDS INTEGRATING RETINAL AND BRAIN ORGANOIDS

Speaker: Ahmad Salti (Austria)

PS03-27AM-260  DECODING RETINITIS PIGMENTOSA: UNVEILING PRPF31 MUTATION EFFECTS ON HUMAN IPSC-DERIVED RETINAL ORGANOIDS IN VITRO MODELS

Speaker: Alessandro Bellapianta (Austria)

PS03-27AM-261  EXPLORING THE IMPACT OF CHEMICAL AND ELECTRICAL STIMULATION ON HUMAN-IPSCS-DERIVED NEURAL NETWORKS COUPLED TO HIGH DENSITY ARRAYS

Speaker: Giulia Parodi (Italy)

PS03-27AM-262  TIME AND EFFECT OF DRUGS DIFFUSION IN NEURONAL NETWORKS DERIVED FROM HUMAN INDUCED PLURIPOTENT STEM CELLS

Speaker: Linda Collo (Italy)

PS03-27AM-263  OPTIMIZING ELECTRICAL STIMULATION PARAMETERS FOR HUMAN-DERIVED NEURONAL NETWORKS: AN INVESTIGATION INTO THE RELIABILITY OF EVOKED RESPONSES

Speaker: Giorgia Zanini (Italy)

PS03-27AM-264  BRAIN IMPLANTATION OF 3D CONSTRUCTS OF THE CEREBRAL CORTEX GENERATED VIA MICROFLUIDIC PRINTING

Speaker: Luana Campos Soares (United Kingdom)

PS03-27AM-265  GENERATION OF COMBINOIDS TO STUDY PARKINSON’S DISEASE IN A 3D IN VITRO AND IN VIVO SYSTEM

Speaker: Serena Viventi (Australia)

PS03-27AM-266  GENERATION OF PATIENT-DERIVED CORTICAL AND SPINAL ORGANOIDS: A PROMISING MODEL FOR STUDYING AMYOTROPHIC LATERAL SCLEROSIS (ALS).

Speaker: Georgia Eleftheriou (Australia)

PS03-27AM-267  INVESTIGATING PARKINSON’S DISEASE USING PATIENT-DERIVED IPSCS TRANSPLANTED IN A HUMAN-MOUSE CHIMERA MODEL
Speaker: Stefano Frausin (Australia)

PS03-27AM-268  PLASTICITY IN IPSC DERIVED 2D CORTICAL NEURONAL NETWORKS.

Speaker: David Jenkins (United Kingdom)

PS03-27AM-269  DIGITAL LIGHT PROCESSING OF 3D STRUCTURES FOR IMPROVED CONNECTIVITY OF HIPSC DERIVED NEURONS

Speaker: Dominic Mosses (United Kingdom)

PS03-27AM-270  INNOVATIVE MODELS FOR AMYOTROPHIC LATERAL SCLEROSIS RESEARCH: DERMAL FIBROBLASTS AND DIRECT CELL REPROGRAMMING

Speaker: Lucía Gallego (Spain)

PS03-27AM-271  REACTIVE GLIA IN CULTURE BOOSTS NEUROSPHERE FORMATION BY CO-CULTURED NON-REACTIVE GLIA

Speaker: Víctor Álvaro (Spain)

PS03-27AM-272  UNRAVELING THE IMPACT OF ARCHITECTURAL COMPLEXITY ON CORTICAL-HIPPOCAMPAL CIRCUIT DYNAMICS WITH BRAIN-ON-A-CHIP MODELS

Speaker: Martina Brofiga (Italy)

PS03-27AM-273  AMYOTROPHIC LATERAL SCLEROSIS AND THE CENTRAL NERVOUS SYSTEM: THE EFFECT OF THE DISEASE ON CORTICAL ELECTROPHYSIOLOGICAL ACTIVITY

Speaker: Ilaria Donati della Lunga (Italy)

PS03-27AM-274  POLYMERIC NANOPARTICLES FOR TARGETED CANCER THERAPY

Speaker: Letizia Cerutti (Italy)

PS03-27AM-275  AUTOMATED HIGH-THROUGHPUT GENERATION OF HUMAN NEURAL ORGANOIDS

Speaker: Merve Heinzer-Avar (United States)

PS03-27AM-276  EMERGENCE OF CORPORA AMYLACEA IN THE AGING HUMAN BRAIN AND IN ALZHEIMER’S DISEASE

Speaker: Daniel Heinzer-Avar (United States)

PS03-27AM-277  MICROSTRUCTURAL CHARACTERIZATION OF BRAIN ORGANOIDS

Speaker: Federico Tozzi (Italy)

PS03-27AM-278  A “BREATHING” BRAIN MODEL: METABOLIC MEASUREMENTS IN WHOLE-BRAIN ORGANOIDS

Speaker: Sonia Cerchio (Italy)

PS03-27AM-279  EXPLOITING DIGITOIDs FOR MIMICKING THE SLEEP-WAKE STATES IN VITRO

Speaker: Rachele Fabbri (Italy)

PS03-27AM-280  NAP: ADVANCED CELLULAR MODELS FOR STUDYING INDIVIDUAL SLEEP DYNAMICS

Speaker: Chiara Magliaro (Italy)

PS03-27AM-281  CHARACTERIZATION OF DENDRITIC SPINE MORPHOLOGY THROUGH A SEGMENTATION-CLUSTERIZATION APPROACH

Speaker: Ester Bruno (Italy)

PS03-27AM-282  TOWARDS A FULLY HUMANIZED IPSC-DERIVED NEURAL NETWORK FOR TRANSLATABLE COGNITIVE DRUG SCREENING

Speaker: Larissa Breuer (Germany)

PS03-27AM-283  HUMAN IPSC-DERIVED NEUROGENIN 2 (NGN2) CORTICAL NEURONS DEVELOP FUNCTIONAL CONNECTIVITY AND SMALL-WORLD NETWORK TOPOLOGY IN VITRO
| PS03-27AM-284 | **MULTIFACTORIAL APPROACH IS NEEDED TO UNRAVEL THE MATURATION PHASES OF HUMAN NEURONS DERIVED FROM INDUCED PLURIPOTENT STEM CELLS** |
| Speaker: Susanna Mierau (United States) |

| PS03-27AM-285 | **UNRAVELLING MICROGLIA-SPECIFIC CONTRIBUTIONS TO NEURONAL NETWORK ACTIVITY: ENGINEERING A HUMAN STEM CELL-DERIVED TRI-CULTURE ON MICROELECTRODE ARRAYS** |
| Speaker: Maissa Ben mahmoud (Hungary) |

| PS03-27AM-286 | **IT TAKES TWO - OR THREE: COMPARING HUMAN PLURIPOTENT STEM CELL DERIVED GLIA-NEURON CO-CULTURES TO NEURON MONOCULTURE UNDER BASAL AND INJURY CONDITIONS** |
| Speaker: Annika Mordelt (Netherlands) |

| PS03-27AM-287 | **DECODING NEURONAL IDENTITY MAINTENANCE AND PROGENITOR PLASTICITY IN EXTENDED BRAIN ORGANOID CULTURES** |
| Speaker: Irene Faravelli (United States) |

| PS03-27AM-288 | **A NEUROFILAMENT-L REPORTER CELL LINE FOR THE QUANTIFICATION OF EARLY NEURONAL DIFFERENTIATION: A BIOASSAY FOR NEUROTROPHIC ACTIVITIES** |
| Speaker: Lisa Seidl (Austria) |

| PS03-27AM-289 | **TRANSCRIPTOMIC CHARACTERIZATION OF MATURING NEURONS FROM HUMAN NEURAL STEM CELLS ACROSS DEVELOPMENTAL TIME POINTS AND THEIR APPLICATION IN DEVELOPMENTAL NEUROTOXICITY SCREENING** |
| Speaker: Kimia Hosseini (Sweden) |

| PS03-27AM-290 | **COMPREHENSIVE FUNCTIONAL PROFILING OF HUMAN BRAIN ORGANOID SYSTEMS** |
| Speaker: Aurore Ribera (France) |

| PS03-27AM-291 | **DEVELOPMENT OF A MICROFLUIDIC DEVICE TO MIMIC THE BLOOD-BRAIN BARRIER USING HUMAN IPSC-DIFFERENTIATED CELLS** |
| Speaker: Marcio da Luz (Brazil) |

| PS03-27AM-292 | **MULTIDONOR HUMAN CORTICAL CHIMEROID REVEAL INDIVIDUAL SUSCEPTIBILITY TO NEUROTOXIC TRIGGERS** |
| Speaker: Noelia Antón-Bolaños (United States) |

| PS03-27AM-293 | **INVESTIGATING THE DEVELOPMENT OF THE GABAERGIC SYSTEM USING HUMAN BRAIN ORGANOID MODELS** |
| Speaker: Chloe Hall (Germany) |

| PS03-27AM-294 | **IN VITRO MODELLING OF IMMUNE EFFECTOR CELL ASSOCIATED NEUROTOXICITY SYNDROME (ICANS) RESULTING FROM CAR T CELL THERAPY TREATING HAEMATOLOGICAL CANCER** |
| Speaker: Aisling McGarry (United Kingdom) |

| PS03-27AM-295 | **CHARACTERIZATION OF A NEW HUMAN CO-CULTURE MODEL OF ENDOTHELIAL CELLS, PERICYTES AND BRAIN ORGANOID IN A MICROFLUIDIC DEVICE** |
| Speaker: Anna Kocsis (Hungary) |

| PS03-27AM-296 | **SH-SY5Y CELL DIFFERENTIATION TO DOPAMINERGIC NEURON-LINE CELLS USING RETINOIC ACID** |
| Speaker: Simas Janutenas (Finland) |

| PS03-27AM-297 | **PHYSIOLOGICAL MEASUREMENTS OF ACTIVITY AND MICROTUBULE HEALTH IN HUMAN IPSC-DERIVED NEURONS USING FLUORESCENCE AND SECOND HARMONIC MICROSCOPY**
Scientific programme

**Speaker**: Natalia Garcia Perez (Belgium)

**PS03-27AM-298**

**IN VITRO ANALYSIS OF DRUG-INDUCED NEURON DEGENERATION BY MORPHOLOGICAL DEEP LEARNING ON A NOVEL MICROPHYSIOLOGICAL SYSTEM**

**Speaker**: Ikuro Suzuki (Japan)

**PS03-27AM-299**

**FUNCTIONAL CHARACTERIZATION OF HUMAN INDUCED PLURIPOTENT STEM CELL DERIVED SYMPATHETIC NEURONS**

**Speaker**: Oskari Kulta (Finland)

**PS03-27AM-300**

**FUNCTIONAL 3D IN VITRO COCULTURE MODEL FOR ASSESSING HUMAN NEURO-GLIOMA INTERACTIONS**

**Speaker**: Nanna Förster (Finland)

**PS03-27AM-301**

**MODELLING CHEMOTHERAPY-INDUCED PERIPHERAL NEUROPATHY ON-A-CHIP**

**Speaker**: Nienke Wevers (Netherlands)

**PS03-27AM-302**

**FUNCTIONAL CHARACTERIZATION OF HEALTHY AND ALZHEIMER'S DISEASE-RELATED 3D NEUROSPHERES FORMED USING HUMAN IPSC-DERIVED GLUTAMATERGIC NEURONS, GABAERGIC NEURONS, AND ASTROCYTES.**

**Speaker**: Georgy Pyatakov (United States)

**PS03-27AM-303**

**CHIMERIC IN VITRO MODEL TO STUDY HUMAN MICROGLIA**

**Speaker**: Vasiliki Panagiotakopoulou (Germany)

**PS03-27AM-304**

**CHARACTERISATION OF MAGI-FAMILY SYNAPTIC SCAFFOLDING PROTEINS IN HUMAN IPSC DERIVED NEURONS**

**Speaker**: Maximilian Borgmeyer (Germany)

**PS03-27AM-305**

**DEVELOPMENT OF ALGINATE- AND HYALURONIC ACID-BASED HYDROGEL AS COATING FOR CULTURING NEURONS**

**Speaker**: Doris Lau (Germany)

**PS03-27AM-306**

**NEURONAL PRESERVATION AND GLIAL CELL CHANGES IN HUMAN BRAIN ORGANOTYPIC SLICE CULTURES**

**Speaker**: Estilla Tóth (Hungary)

**PS03-27AM-307**

**ELECTROPHYSIOLOGICAL PROPERTIES AND ACTIVITY-DEPENDENT DIFFERENTIATION OF HUMAN INDUCED NEURONS**

**Speaker**: Attila Szücs (Hungary)

**PS03-27AM-308**

**LABEL-FREE FUNCTIONAL ANALYSIS FOR THE CHARACTERIZATION OF IPSC-DERIVED NEURAL ORGANOID DEVELOPMENT AND MATURATION**

**Speaker**: Timm Schlegel (United States)

**PS03-27AM-309**

**CHARACTERIZING HUMAN DERIVED NEURONAL NETWORK USING HIGH-DENSITY MEAS AND PROTEOMICS: IN-VITRO MODEL FOR NEURODEVELOPMENTAL DISEASE.**

**Speaker**: Lorenzo Muzzi (Italy)

**PS03-27AM-310**

**TOWARDS NOVEL IN VITRO MODELS OF MULTIPLE SCLEROSIS: DEVELOPMENT OF HUMANIZED HIPPOCAMPAL MOUSE SLICES**

**Speaker**: Sara Rimoldi (Germany)

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**Poster Sessions**

09:30 - 13:00  
**Poster Session 03 - Section 12**

**PS03-27AM-342**

**DISCOVERY OF DUAL INHIBITORS FOR THE TREATMENT OF ALZHEIMER'S DISEASE**

**Speaker**: Aina Bellver Sanchis (Spain)
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<td>Marta Ribalta Vilella (Spain)</td>
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<td>BEHAVIORAL, ELECTROPHYSIOLOGICAL AND ENZYMATIC CHARACTERIZATION OF NEW PRECLINICAL RODENT MODEL EXPOSED TO DIFFERENT SUB-LETHAL DOSES OF SOMAN</td>
<td>Rosalie BEL (France)</td>
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<td>LIPOPHENOL COMPOUNDS AS NEW HYBRIDS TOOLS AGAINST OXIDATIVE AND CARBONYL STRESS IN ALZHEIMER’S DISEASE.</td>
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<td>CHARACTERIZATION OF THE BIOLOGICAL EFFECT OF NEW MOLECULES AS POTENTIAL THERAPEUTIC AGENTS FOR ALZHEIMER'S DISEASE</td>
<td>Patricia Llanes Fernández (Panama)</td>
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<td>DESIGN AND DEVELOPMENT OF NANOLIPOSOMES BASED ON SOY LECITHIN FOR THE DELIVERY OF MOLECULES TO THE CNS AS STRATEGY FOR THE TREATMENT OF NEURODEGENERATIVE DISEASES</td>
<td>Alvaro Barrera-Ocampo (Colombia)</td>
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<td>PROTECTIVE EFFECT OF SOME NATURAL ANTIOXIDANTS ON OLFACTORY ENSHEATHING CELLS EXPOSED TO AMYLOID-B TOXICITY: A POTENTIAL THERAPEUTIC ROLE IN PRESERVING NEURODEGENERATIVE DISEASES</td>
<td>Rosalia Maria Pellitteri (Italy)</td>
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<td>Jelena Penjišević (Serbia)</td>
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<td>Divya Divya (India)</td>
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POTENTIAL MULTI-TARGET DIRECTED LIGANDS IN THE THERAPY OF ALZHEIMER'S DISEASE

Speaker: Martin Horak (Czech Republic)

PS03-27AM-357 PHARMACOKINETIC AND SAFETY OF A NOVEL PLEIOTROPIC COMPOUND IN C57BL/6J MICE WITH POTENTIAL THERAPEUTIC INTEREST IN ALZHEIMER'S DISEASE

Speaker: Caroline Lahogue (France)

PS03-27AM-358 IMPROVING NEUROPROTECTION AGAINST A NERVE AGENT-EXPOSURE WITH THE ASSOCIATION OF TWO OXIMES.

Speaker: Alexandre Champault (France)

PS03-27AM-359 EFFECT OF QUERCETIN MODIFICATION WITH 6,7-DIMETHOXY-TETRAHYDROISOQUINOLINE ON CHOLINERGIC ENZYMES ACTIVITY AND ITS LIPOPHELIKITY

Speaker: Marija Vučkovski (Serbia)

PS03-27AM-360 THERAPEUTIC POTENTIAL OF NEUROSTEROIDS DHEA AND DHEAS IN MOUSE MODELS OF ALZHEIMER’S DISEASE

Speaker: Barbara Vuić (Croatia)

PS03-27AM-361 PROMNESIC, ANXIOLYTIC, AND ANTIOXIDANT EFFECTS OF MANSORIN A AND MANSONONE G IN THE OKADAIC ACID-INDUCED ZEBRAFISH MODEL OF ALZHEIMER’S DISEASE

Speaker: Iasmina Honceriu (Romania)

PS03-27AM-362 THE ABILITY OF ELLAGIC ACID LOADED IN NANOVESICLES TO RESCUE THE AB-INDUCED LTP IMPAIRMENT

Speaker: Nunzia Maisto (Italy)

PS03-27AM-363 NORDRENERGIC A2 RECEPTOR: A PROMISING CENTRAL TARGET FOR UROLITHINS

Speaker: Veronica Torre (Italy)

PS03-27AM-364 PHYSIOLOGICAL EVALUATION OF A NEW RILUZOLE-DERIVED COMPOUND AS NEUROPROTECTIVE AGENT

Speaker: Jessica Cazzola (Italy)

PS03-27AM-365 PROTECTIVE EFFECT OF GROWTH HORMONE-RELEASEING HORMONE (GHRH) AGONIST MR-409 IN ALZHEIMER’S DISEASE

Speaker: Giulia Morello (Italy)

PS03-27AM-366 GENIPOSIDE, A NATURAL EXTRACT FROM THE FRUIT OF GARDENIA JASMINOIDES, EXHIBITS A NEUROPROTECTIVE EFFECT ON AN IN VITRO TAUOPATHY MODEL FOR ALZHEIMER’S DISEASE.

Speaker: Inas Birekdar (Egypt)

PS03-27AM-367 APPLICATION OF DEHYDROEPANDROSTERONE AS A NEUROPROTECTIVE AGENT FOR THE THERAPY OF ALZHEIMER’S DISEASE IN A MOUSE MODEL

Speaker: Kvak Erika Eliza (Hungary)

PS03-27AM-368 OPTIMIZING SERUM-FREE NEURONAL DIFFERENTIATION OF SH-SY5Y CELLS: IMPLICATIONS FOR ALZHEIMER’S DISEASE THERAPY

Speaker: Ihor Kozlov (Czech Republic)

PS03-27AM-369 TERPENES AND ALZHEIMER’S DISEASE: AN IN VITRO STUDY

Speaker: Sveva Dallere (Italy)

PS03-27AM-370 HIGH DOSE FISH OIL SUPPLEMENTATION DECREASES AMYLOID BETA ACCUMULATION IN RETINAL BLOOD VEVELELS IN 3XFAD MICE

Speaker: Irena Jovanovic Macura (Serbia)
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<td>Rafaël DE SA (Germany)</td>
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<td>THE IMMEDIATE EFFECT OF LUMBAR TRANSCUTANEOUS SPINAL CORD STIMULATION IN PATIENTS WITH MULTIPLE SCLEROSIS: PRELIMINARY RESULTS OF A SHAM-CONTROLLED STUDY</td>
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<td><strong>DIFFERENT SOMATOSENSORY BRAIN ACTIVITY AFTER HIGH AND LOW FREQUENCY RTMS IN NON-HUMAN PRIMATE MODEL OF CENTRAL POST-STROKE PAIN</strong></td>
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Speaker: Emmet McNickle (United Kingdom)

**PS03-27AM-568** - 40 HZ VISUAL AND AUDITORY ENTRAINMENT INCREASES EEG ALPHA ACTIVITY AND IMPROVES COGNITIVE FUNCTIONS OF MIDDLE-AGED HEALTHY CONTROLS

Speaker: Bahar Güntekin (Turkey)

**PS03-27AM-569** - ELECTROCONVULSIVE THERAPY PROMOTES REINNERVATION OF THE DOPAMINE-DEPLETED STRIATUM IN THE 6-OHDA MODEL OF PARKINSON’S DISEASE

Speaker: Anika Frank (United States)

**Poster Sessions**

09:30 - 13:00

**Poster Session 03 - Section 87**

**PS03-27AM-506** - ANXIETY IN PARKINSON’S DISEASE: BRAINSTEM NEUROMODULATORY MECHANISMS

Speaker: Alexia Lantheaume (Germany)

**PS03-27AM-507** - EXPLORING THE INTERPLAY OF GAIT AND ANXIETY IN A SYNUCLEINOPATHY MODEL OF PARKINSON’S DISEASE

Speaker: Michael Schellenberger (Germany)

**PS03-27AM-508** - FUNCTIONAL, BEHAVIOURAL AND MOLECULAR CHARACTERIZATION OF A PRESHYMPOTOMATIC MODEL OF PARKINSON DISEASE EXPRESSING ASYNUCLEIN IN THE LOCUS COERULEUS

Speaker: Jone Razquin (Spain)

**PS03-27AM-509** - DEPRESSIVE-LIKE PHENOTYPE INDUCED BY AAV-MEDIATED OVEREXPRESSION OF HUMAN A-SYNUCLEIN IN MIDBRAIN DOPAMINERGIC NEURONS

Speaker: Laura Kondrataviciute (Canada)

**PS03-27AM-510** - ALPHA-SYNUCLEIN PATHOLOGY FROM HUMAN-DERIVED LEWY BODY INOCULATIONS IN THE MOUSE OLFACTORY BULB: MODELLING EARLY PARKINSON’S DISEASE.

Speaker: Charmaine Helk-Lim (United Kingdom)

**PS03-27AM-511** - DEVELOPMENT OF A NOVEL VIRAL VECTOR-BASED MODEL OF DEMENTIA WITH LEWY BODIES IN MICE

Speaker: Yaprak Karabalci (United Kingdom)

**PS03-27AM-512** - LESIONS OF THE LATERAL HYPOTHALAMUS-NIGRAL PROJECTION RESULT IN MOTOR DEFICITS IN RATS: IMPLICATIONS FOR PARKINSON’S DISEASE

Speaker: Asena Bingul (Australia)

**PS03-27AM-513** - CELLULAR AND MOLECULAR CHARACTERIZATION OF SEROTONERGIC SYNAPSES IN A MOUSE MODEL OF DEPRESSION AND RAPHÉ SYNUCLEINOPATHY

Speaker: Unai Sarriés-Serrano (Spain)

**PS03-27AM-514** - RATE OF NEUROMELANIN ACCUMULATION IN THE LOCUS COERULEUS IS A CRITICAL FACTOR FOR NEURODEGENERATION

Speaker: Csilla Novák (Germany)

**PS03-27AM-515** - INCREASED FEAR-RELATED BEHAVIORS FOLLOWING ALPHA-SYNUCLEIN PREFORMED FIBRILS INJECTED INTO THE BASOLATERAL AMYGDALA OR STRIATUM IN MICE

Speaker: Thuy Lai (Germany)

**PS03-27AM-516** - DEPRESSIVE AND ANXIOUS PHENOTYPE CORRELATES WITH FUNCTIONAL CHANGES IN THE VENTROMEDIAL PREFRONTAL

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CORTEX - DORSAL RAPHE NUCLEUS CIRCUIT IN FEMALE MICE WITH ALPHA-SYNUCLEINOPATHY

Speaker: María Sancho Alonso (Spain)

PS03-27AM-517 INVESTIGATING CHANGES IN INTERNEURONS AND PERINEURONAL NETS IN A RODENT MODEL OF ALPHA-SYNUCLEINOPATHY

Speaker: Anastasia Dimitriou (United Kingdom)

PS03-27AM-518 EARLY HIPPOCAMPAL HYPEREXCITABILITY AND MITOCHONDRIAL CHANGES IN A TRANSGENIC MOUSE MODEL OF DEMENTIA WITH LEWY BODIES

Speaker: Lauren O’Neill (United Kingdom)

PS03-27AM-519 THE LOCUS COERULEUS NORADRENERGIC NETWORK IN PRODROMAL PHASES OF PARKINSON’S DISEASE.

Speaker: Laura De las Heras-García (Spain)

PS03-27AM-520 EVIDENCE OF PRODROMAL NEURONAL HYPEREXCITABILITY AND NEUROINFLAMMATION IN A RODENT MODEL OF HUMAN ALPHA-SYNUCLEINOPATHY

Speaker: Fiona Lebeau (United Kingdom)

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Poster Session 03 - Section 71

PS03-27AM-521 NEUROPHYSIOLOGY OF PERCEPTUAL CLOSURE ABILITIES IN CHILDREN WITH AUTISM SPECTRUM DISORDER AND NEUROTYPICAL CONTROL CHILDREN

Speaker: Erin Bojanek (United States)

PS03-27AM-522 CHARACTERIZING AGE-RELATED COGNITIVE-MOTOR INTERACTIONS IN INDIVIDUALS WITH AND WITHOUT AUTISM SPECTRUM DISORDER USING MOBILE BRAIN-BODY IMAGING (MOBI)

Speaker: Paige Nicklas (United States)

PS03-27AM-523 INTER-BRAIN SYNCHRONIZATION IN FACE-TO-FACE AND ONLINE GROUP COMMUNICATION

Speaker: Kohei Sakaki (Japan)

PS03-27AM-524 COMPARISON OF LEARNING EFFECTS BETWEEN ON-DEMAND AND FACE TO FACE CLASSES FROM THE VIEWPOINT OF BRAIN ACTIVITY

Speaker: Yugo Okada (Japan)

PS03-27AM-525 NEURONAL ACTIVITIES DURING A VR-BASED ASSESSMENT FOR AUTISM SPECTRUM DISORDER: A PILOT EEG STUDY

Speaker: Chun-Chuan Chen (Taiwan)

PS03-27AM-526 HOW MUCH DATA IS ENOUGH TO RELIABLY MEASURE INDIVIDUAL DIFFERENCES IN COGNITION?

Speaker: Jan Kadlec (Israel)

PS03-27AM-527 NEUROPHYSIOLOGICAL CORRELATES OF COGNITIVE LOAD IN ONLINE LEARNING FOR NEUROTYPICAL AND NEURODIVERGENT STUDENTS

Speaker: Anne-Laure Le Cunff (United Kingdom)

PS03-27AM-528 AUTISTIC TRAITS MEDIATE THE RELATIONSHIP BETWEEN OCCIPITAL GABA AND PERCEPTUAL CHOICE IN A TARGET DETECTION TASK.

Speaker: Nazia Jassim (United Kingdom)
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SPECTRUM CONDITION

Speaker: Flavia Esposito (Sweden)

PS03-27AM-544 BRAIN ACTIVATION PATTERNS IN PATIENTS WITH AUTISM SPECTRUM DISORDER IN PAIN-RELATED PERSPECTIVE-TAKING; RELATIONSHIP WITH INTEROCEPTIVE ACCURACY

Speaker: Jung-Woo Son (Korea, Republic of)

PS03-27AM-545 COGNITIVE AND INTELLIGENCE MEASURES FOR ADHD IDENTIFICATION BY MACHINE LEARNING MODELS

Speaker: Adelia-Solás Martínez-Evora (Spain)

Poster Sessions
09:30 - 13:00

Poster Session 03 - Section 177

PS03-27AM-311 MICROGlia BRAINIZATION: INTRINSIC AND ENVIRONMENTAL CUES CONTROLLING DEVELOPMENTAL MICROGlia MATURATION

Speaker: Joel Maldonado-Teixido (Spain)

PS03-27AM-312 MICROGlia BRAINIZATION: THE SHIFT FROM INITIAL COLONIZATION TO ADULT-LIKE DYNAMICS, MORPHOLOGY AND FUNCTION IN THE POSTNATAL HIPPOCAMPUS AND CEREBELLUM

Speaker: Marta Pereira-Iglesias (Spain)

PS03-27AM-313 LNCRNA NEAT1 MODULATES INFECTION-INDUCED COGNITIVE IMPAIRMENT

Speaker: Hongkuan Fan (United States)

PS03-27AM-314 NEW PLAYERS IN NEURODEVELOPMENT : ROLE OF MENINGEAL MACROPHAGES IN DEVELOPMENTAL NEUROGENESIS

Speaker: Laure Salvon (France)

PS03-27AM-315 MICROGLIAL TREM2 RECEPTOR SIGNALING SHAPES NEURONAL BIOENERGETICS DURING DEVELOPMENT.

Speaker: Erica Tagliatti (Italy)

PS03-27AM-316 ROLE OF TYPE I INTERFERON RECEPTOR IN BRAIN DEVELOPMENT

Speaker: Luisa Demuth (Germany)

PS03-27AM-317 HUMAN MICROGlia DEPENDENT VIRAL-MEDIATED INFLAMMATION IMPAIRS RETINAL ORGANOID DEVELOPMENT

Speaker: Verena Schmied (Austria)

PS03-27AM-318 CDB4+ T CELLS INDUCE INTERFERON-RESPONSIVE OLIGODENDROCYTES AND MICROGlia IN WHITE MATTER AGING

Speaker: Tugberk Kaya (Germany)

PS03-27AM-319 ROLE OF MYELOID CELLS IN THE REGULATION OF CEREBELLUM NEOURODEVELOPMENT

Speaker: Saudina Mateus Gomes (France)

PS03-27AM-320 MICROGlia MODULATE COMPLEX NEURONAL NETWORKS IN ACUTE BRAIN SLICES DESPITE THEIR RAPID, ATP-RELATED PHENOTYPIC TRANSFORMATION

Speaker: Peter Berki (Hungary)

PS03-27AM-321 MICROGlia CONTRIBUTE TO CONNECTIVITY DEFICITS IN DOWN SYNDROME BY DIFFERENTIALLY MODULATING EXCITATORY AND INHIBITORY CIRCUITS

Speaker: Alexia Tiberi (Italy)
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INFLAMMATION IN THE DEVELOPING CORTEX
Speaker: Laura Wolbeck (Denmark)

PS03-27AM-337 UNDERSTANDING THE ROLE OF MICROGLIA IN ‘CHEMOFOG’ TO RESOLVE CHEMOTHERAPY-INDUCED COGNITIVE IMPAIRMENT
Speaker: Agnese Cherubini (Italy)

PS03-27AM-338 REGULATION OF MICROGLIA DEVELOPMENT AND FUNCTION BY PYRAMIDAL CELLS
Speaker: Fong Kuan Wong (United Kingdom)

PS03-27AM-339 UNVEILING THE ROLE OF MICROGLIA IN SYNAPTIC PRUNING IN MULTIPLE SCLEROSIS
Speaker: Catarina Barros (Portugal)

PS03-27AM-340 CYTOARCHITECTURAL AND IMMUNOCYTOCHEMICAL ALTERATIONS IN HIPPOCAMPAL SUBREGIONS OF THE LUPUS MODEL NZB/W F1 MICE
Speaker: Jean-Marie Graïc (Italy)

PS03-27AM-341 MICROGLIA-NEURON INTERACTION: THE ROLE OF CCL21 IN SEPSIS-ASSOCIATED ENCEPHALOPATHY
Speaker: Iohana Bianca Pagnoncelli (Brazil)

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PS03-27AM-412 POLYSOMAL PROFILING OF SPINAL CELLS AFTER PERIPHERAL NERVE INJURY
Speaker: Camilla Beccarini (Switzerland)

PS03-27AM-413 EPIGENETIC MODULATION OF BURN INJURY-INDUCED NOCICEPTION IN MURINE SPINAL CORD
Speaker: Angelika Varga (Hungary)

PS03-27AM-414 UNBIASED WHOLE-BRAIN SCREENS IDENTIFY AN AGRANULAR INSULA TO BASOLATERAL AMYGDALA PROJECTION THAT MEDIATES PAIN HYPERSENSITIVITY
Speaker: May Hui (United States)

PS03-27AM-415 INTERNEURONS IN THE NUCLEUS ACCUMBENS ALTER THEIR ELECTROPHYSIOLOGICAL PROPERTIES IN A MOUSE MODEL OF NEUROPATHIC PAIN
Speaker: Ilaria Sanvido (Austria)

PS03-27AM-416 PASSIVE TRANSFER OF IGG FROM PATIENTS WITH LONG-COVID NEUROLOGICAL SYMPTOMS INDUCES TACTILE ALLODYニア IN MICE
Speaker: Margaux Mignolet (Belgium)

PS03-27AM-417 INTEGRATIVE ANALYSIS OF DESCENDING PAIN MODULATION
Speaker: Xiaoke Chen (United States)

PS03-27AM-418 TOP-DOWN SOMATOSENSORY CONTROL BY SPINALLY PROJECTING S1 NEURONS
Speaker: Simon d’Aquin (Switzerland)

PS03-27AM-419 FEMALE HYPERANDROGENISM INCREASES VULNERABILITY TO PAIN AND DEPRESSION IN A RAT MODEL OF POLYCYSTIC OVARY SYNDROME
Speaker: Chengchun Wu (Taiwan)

PS03-27AM-420 COMBINED ELECTROPHYSIOLOGIC AND TRANSCRIPTOMIC CHARACTERIZATION REVEALS DIFFERENT FUNCTIONAL
POPULATIONS OF GABAERGIC SPINAL NEURONS IN NEUROPATHIC PAIN MOUSE MODEL.

**Speaker:** Yves Le Feuvre (France)

**PS03-27AM-421** NEUROINFLAMMATORY MECHANISMS OF PAIN HYPERSENSITIZATION IN A MOUSE MODEL OF ADHD

**Speaker:** Sarah Bou Sader Nehme (France)

**PS03-27AM-422** OLFACTORY BULBECTOMY ACTIVATES ASTROCYTES WITHIN THE BASOLATERAL AMYGDALA AND ELICITS ALLODYNIA IN MALE RATS

**Speaker:** Julio Cesare Morales Medina (Mexico)

**PS03-27AM-423** C-FOS BRAIN CONNECTOME IN MOUSE WITH CHRONIC CORNEAL PAIN

**Speaker:** Jian Huang (France)

**PS03-27AM-424** ELECTROACUPUNCTURE AT NEUROGENIC INFLAMMATION SPOTS ATTENUATES HEPATIC DAMAGES IN BILE DUCT-LIGATED RATS

**Speaker:** Dohee Kim (Korea, Republic of)

**PS03-27AM-425** ANTERIOR CINGULATE CROSS-HEMISPHERIC PROJECTION TO THE CLAUSRUM DETERMINES PRIORITIZATION IN PAINFUL SENSORY CONFLICT.

**Speaker:** Keisuke Koga (Japan)

**PS03-27AM-426** MUSIC IMPACT ON DOPAMINE DYNAMICS UPON OPIOID-BASED TREATMENT FOR CHRONIC PAIN

**Speaker:** Montse Flores-García (Spain)

**PS03-27AM-427** PROLONGED ENHANCEMENT OF SPINAL CORD NEURON ACTIVITY BY SYNAPTIC INPUT FROM SENSORY NEURONS IN RECONSTRUCTED SENSORY-SPINAL CORD NETWORK IN VITRO

**Speaker:** Yuki Miyahara (Japan)

**PS03-27AM-428** EFFECT OF VOLUNTARY WHEEL RUNNING ON THE ANTERIOR CINGULATE CORTEX IN NEUROPATHIC PAIN MICE.

**Speaker:** Kohei Oyabu (Japan)

**PS03-27AM-429** DOES SPREADING DEPRESSION REWIRE CORTICAL PAIN NETWORKS?

**Speaker:** Bengisu Solgun (Turkey)

**PS03-27AM-430** ANTERIOR CINGULATE CORTEX HYPEREXCITABILITY IN A MOUSE MODEL OF ATTENTION-DEFICIT/HYPERACTIVITY DISORDER AND PAIN COMORBIDITY

**Speaker:** Sandra Sanchez-Sarasua (France)

**PS03-27AM-431** AGE- AND SEX-DEPENDENT PROTEOME DYNAMICS OF NERVE INJURY-INDUCED NEUROPATHIC PAIN IN MICE

**Speaker:** Sabrina Grundtner (Austria)

**PS03-27AM-432** INVOLVEMENT OF THE DOPAMINERGIC SYSTEM IN TWO DISTINCT REGIONS OF THE HIPPOCAMPUS IN THE STRESS-INDUCED ANTINOCICEPTIVE RESPONSES IN THE RATS

**Speaker:** Abbas Haghparsad (Iran)

**PS03-27AM-433** RESTRAINT STRESS-INDUCED ANTINOCICEPTIVE EFFECTS IN THE ACUTE PAIN: INVOLVEMENT OF OREXINERGIC SYSTEM IN THE NUCLEUS ACCUMBENS

**Speaker:** Amir Haghparsad (Iran)

**PS03-27AM-434** STRESS-INDUCED POTENTIATION OF POST-SURGICAL PAIN AND ASSOCIATED ALTERATIONS IN THE ENDOCANNABINOID SYSTEM

**Speaker:** Alba María Diego Martín (Ireland)
PS03-27AM-435  HIPPOCAMPAL FUNCTION IS ALTERED IN A MODEL OF CHRONIC NEUROPATHIC PAIN.
Speaker: Bryony Winters (Australia)

PS03-27AM-436  BRAIN ACTIVATION DURING INFLAMMATORY AND NON-INFLAMMATORY HYPERALGESIA IN A RHEUMATOID ARTHRITIS MOUSE MODEL.
Speaker: Rita Gálosi (Hungary)

PS03-27AM-437  MGLUR5-MEDIATED DEACTIVATION OF MPFC VIA SOMATOSTATIN-POSITIVE INTERNEURON IN THE NEUROPATHIC PAIN MICE.
Speaker: Mirae Jang (Korea, Republic of)

PS03-27AM-438  QUANTITATIVE STUDY OF TOTAL AND NOCICEPTIVE NERVE FIBRES IN THE HUMAN VULVA.
Speaker: Lidia Real Yanes (Spain)

PS03-27AM-439  CORTICO-SUBCORTICAL DYSCONNECTIVITY FOLLOWING OPIOID ADMINISTRATION CORRELATES WITH ANALGESIA IN THE AWAKE MOUSE BRAIN.
Speaker: Zsolt Lenkei (France)

PS03-27AM-440  NEURAL RESPONSE ASSOCIATED WITH THE MODULATION OF TEMPORAL SUMMATION OF SECOND PAIN BY AFFECTIVE TOUCH.
Speaker: Matteo Martini (Italy)

PS03-27AM-441  CONTROL OF RVM TO SPINAL CORD PAIN DESCENDING PATHWAY BY VLPAG-SST NEURONS IN A PHYSIOPATHOLOGICAL CONTEXT.
Speaker: Juliette Viellard (France)

Poster Sessions
09:30 - 13:00

Poster Session 03 - Section 24

PS03-27AM-163  DOPAMINE DEFICIENT MICE SHOW ANERGIA BUT NOT ANHEDONIA ON TESTS OF VIGOR-BASED CHOICE.
Speaker: Andrea Martinez Verdu (Spain)

PS03-27AM-164  AGE EFFECT ON THE WILLINGNESS TO WORK FOR SUCROSE IN MALE RATS: INVOLVEMENT OF THE CEREBRAL DOPAMINE NEUROTROPHIC FACTOR.
Speaker: Régulo Olivares García (Spain)

PS03-27AM-165  TURNING ON AND OFF THE CEREBELLUM IN DRUG-INDUCED MEMORY.
Speaker: Ignasi Melchor Eixea (Spain)

PS03-27AM-166  NORADRENERGIC MODULATION OF RECOGNITION MEMORY IN MALE AND FEMALE MICE.
Speaker: Lorena Roselló-Jiménez (Spain)

PS03-27AM-167  IMPACT OF SOCIAL DISTANCING ON WILLINGNESS TO EXERT EFFORT IN MICE OF BOTH SEXES: STUDIES OF DOPAMINE MANIPULATIONS.
Speaker: Paula Matas Navarro (Spain)

PS03-27AM-168  DYNAMIC REPRESENTATION OF APPETITIVE AND AVERSIVE STIMULI IN NUCLEUS ACCUMBENS SHELL D1- AND D2-MEDIUM SPINY NEURONS.
Speaker: Ana Verónica Domínguez (Portugal)

PS03-27AM-169  DYNAMIC DYNORPHIN RELEASE IN THE VTA DURING
APPETITIVE AND AVERSIVE ASSOCIATIVE LEARNING

**Speaker**: Carina Soares-Cunha (Portugal)

**PS03-27AM-170**: LDT CHOLINERGIC INPUTS TO THE NUCLEUS ACCUMBENS NEURONS FACILITATE COCAINE REINFORCING PROPERTIES

**Speaker**: Barbara Coimbra (Portugal)

**PS03-27AM-171**: DIVERSE REPRESENTATION OF VARIOUS REWARDS IN THE DOPAMINERGIC NEURONS OF THE VENTRAL TEGMENTAL AREA

**Speaker**: Kamil Pradel (Germany)

**PS03-27AM-172**: OPPOSITE CODING OF COMPETING REWARDS BY VTA DOPAMINE NEURONS

**Speaker**: Hanna van den Munkhof (Germany)

**PS03-27AM-173**: CHARACTERIZING THE ROLE OF MOVEMENT IN VENTROMEDIAL STRIATAL DOPAMINE SIGNALS RELATED TO REWARD

**Speaker**: Eugenia Z. Poh (Netherlands)

**PS03-27AM-174**: WAVE-LIKE STRIATAL DOPAMINE PEAKS AND TROUGHS BRACKET SPONTANEOUS MOVEMENT

**Speaker**: Lizz Fellinger (Netherlands)

**PS03-27AM-175**: INVESTIGATING THE ROLE OF NEUROMODULATORS IN MICE DURING ASSOCIATIVE LEARNING WITH A 50% REWARD SCHEDULE

**Speaker**: Réka Kispál (Hungary)

**PS03-27AM-176**: CORRELATIONS IN NEUROMODULATORY CODES DURING DIFFERENT LEARNING PROCESSES

**Speaker**: Bálint Király (Hungary)

**PS03-27AM-177**: DISCRETE POPULATIONS OF MIDBRAIN DOPAMINE NEURONS DIFFERENTLY SIGNAL DECISION-MAKING

**Speaker**: Gabriella Portlock (United Kingdom)

**PS03-27AM-178**: THE GUT-BRAIN VAGAL AXIS GOVERNS MESOLIMBIC NATURAL AND RECREATIONAL REWARD DYNAMICS

**Speaker**: Oriane Onimus (France)

**PS03-27AM-179**: CONTROL OF MOTIVATED REWARD AND AVERSION BEHAVIORS BY THE LATERODORSAL TEGMENTAL AREA

**Speaker**: Lea Royon (France)

**PS03-27AM-180**: THE INFLUENCE OF LATERIALIZED RETINAL STIMULATION ON DOPAMINERGIC NEURON ACTIVITY AND STRIATAL DOPAMINE RELEASE.

**Speaker**: Martyna Marzec (Poland)

**PS03-27AM-181**: DOPAMINE AND OPIOID MODULATION OF HUMAN NEURAL RESPONSES TO SOCIAL AND NON-SOCIAL REWARDS

**Speaker**: Claudia Massaccesi (Austria)

**PS03-27AM-182**: THE VENTRAL MIDBRAIN ENCODES THE STRENGTH OF SUBSEQUENT FORCE GENERATIONS EVEN WITHOUT EXTERNAL REWARDS

**Speaker**: Sho Sugawara (Japan)

**PS03-27AM-183**: ROLE OF DOPAMINERGIC NEURONS IN AVERSE AND APPETITIVE MOTIVATED BEHAVIOUR

**Speaker**: Elsa Karam (France)

**PS03-27AM-184**: STRIATAL DOPAMINE AND ACETYLCHOLINE SIGNAL DISTINCT VARIABLES DURING PERCEPTUAL DECISION-MAKING

**Speaker**: Matthias Fritsche (United Kingdom)
PS03-27AM-185  DIFFERENT DOPAMINERGIC MECHANISM IN THE EXPRESSION OF SIGN-TRACKING PHENOTYPE IN C57BL/6J AND DBA/2J MICE  
**Speaker:** Andrea Sepe (Italy)

PS03-27AM-186  THE ROLE OF THE MU OPIOID RECEPTORS IN THE VENTRAL TEGMENTAL AREA IN THE MODULATION OF PHASIC DOPAMINE RELEASE  
**Speaker:** Jakub Bilnicki (Poland)

PS03-27AM-187  INVESTIGATING THE ROLE OF THE MOUSE OLFACTORY DOPAMINERGIC CELLS IN PROCESSING SEXUAL ODORS  
**Speaker:** Ilaria Ghia (Italy)

PS03-27AM-188  NUCLEUS ACCUMBENS SHELL SUBCIRCUITS REGULATING REWARD AND AVERSION BEHAVIOR  
**Speaker:** Alina-Mariuca Marinescu (Switzerland)

PS03-27AM-189  THE ROLE OF STRIATAL NEUROMODULATORY SIGNALS IN ADAPTIVE LEARNING OF ACTION VALUE  
**Speaker:** Chiara Toschi (United Kingdom)

PS03-27AM-190  DOPAMINE-ACETYLCHOLINE INTERPLAY AND NEURAL ACTIVITY MOTIFS IN THE STRIATUM: INSIGHTS FROM A MOUSE DELAYED-GO REACHING TASK.  
**Speaker:** Teris, Wing Kin Tam (United Kingdom)

PS03-27AM-191  REAL-TIME IMAGING OF DOPAMINE RELEASE AND NEURONAL POPULATIONS DYNAMICS IN THE MOTOR CORTEX OF AWAKE MICE - DECODING OF REWARD-RELATED SIGNALS AND MOVEMENT PARAMETERS  
**Speaker:** Martyna Gorkowska (Poland)

PS03-27AM-192  MOVEMENT-RELATED DOPAMINE SIGNALING IN MOUSE DORSAL STRIATUM IN HEALTH AND PARKINSONISM  
**Speaker:** Guy Yona (United Kingdom)

PS03-27AM-193  MALE RAT SEXUAL BEHAVIOR AND THE ROLE OF THE VENTRAL PALLIDUM  
**Speaker:** Roy Heijkoop (Norway)

**Poster Sessions**  
09:30 - 13:00  
**Poster Session 03 - Section 124**

PS03-27AM-094  CORTICAL CIRCUITS FOR CONTEXT DEPENDENT SENSORY PROCESSING  
**Speaker:** Pol Bech Vilaseca (Switzerland)

PS03-27AM-095  BRAIN-WIDE NEURONAL DYNAMICS UNDERLYING RAPID GOAL-DIRECTED SENSORIMOTOR LEARNING  
**Speaker:** Axel Bisi (Switzerland)

PS03-27AM-096  TARGETED RECOMBINATION IN ACTIVE POPULATIONS TO STUDY SENSORIMOTOR LEARNING  
**Speaker:** Lana Maria Smith (Switzerland)

PS03-27AM-097  FAST PATHWAY-SPECIFIC REORGANIZATION OF BARREL CORTEX UNDERLYING RAPID GOAL-DIRECTED SENSORIMOTOR LEARNING  
**Speaker:** Anthony Renard (Switzerland)

PS03-27AM-098  CONTEXT REPRESENTATION IN MOUSE FRONTAL CORTEX DURING A SHORT-TERM MEMORY TASK  
**Speaker:** parviz ghaderi (Switzerland)
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PS03-27AM-115  BRAINWIDE TRANSFORMATION OF NEURAL SIGNALS UNDERLYING PERCEPTION  -
Speaker: Blake Russell (United Kingdom)

PS03-27AM-116  INFLUENCE OF ENHANCED EARLY SENSORY EXPERIENCE ON FUNCTIONAL CORTICAL NETWORKS AND BEHAVIOUR  -
Speaker: Shabana Khan (United Kingdom)

PS03-27AM-117  DIRECTIONAL AND FLEXIBLE FLOW OF SENSORY INFORMATION ALONG THE CORTICAL HIERARCHY DURING WHISKER BASED DISCRIMINATION.  -
Speaker: Pierre-Marie Garderes (United States)

PS03-27AM-118  A CORTICO-COLLICULAR PATHWAY FOR DEFENSE MODULATION  -
Speaker: Jesus Martin Cortecero (Germany)

PS03-27AM-119  DIRECTIONAL AND FLEXIBLE FLOW OF SENSORY INFORMATION ALONG THE CORTICAL HIERARCHY DURING WHISKER BASED DISCRIMINATION.  -
Speaker: Alisha Ahmed (United States)

PS03-27AM-120  INVESTIGATING THE ROLE OF THE SUBPARAFASCICULAR THALAMIC NUCLEUS IN THE PROCESSING OF SOFT TOUCH SENSATION IN MICE  -
Speaker: Konstantina Ioneskou (Sweden)

PS03-27AM-121  VOLUNTARY CONTROL OF MESOSCALE WAVES IN THE PRIMARY SOMATOSENSORY AND MOTOR CORTICES  -
Speaker: Valérie Ego-Stengel (CNRS & Université Paris-Saclay, France)

Poster Sessions
09:30 - 13:00

Poster Session 03 - Section 91

PS03-27AM-486  LOGIC OF THE SPATIAL AND FUNCTIONAL ORGANIZATION OF THE CORTICO-STRATAL PROJECTIONS ONTO SOMATOSTATIN AND PARVALBUMIN INTERNEURONS IN THE DORSAL STRIATUM OF MICE.  -
Speaker: Juliette Contadini (France)

PS03-27AM-487  WHAT ROLE FOR THE STRIATUM IN MOTOR CONTROL? INSIGHTS FROM UNILATERAL PERTURBATION DURING FORAGING.  -
Speaker: Maud Schaffhauser (France)

PS03-27AM-488  SPARSE AND UNIQUE FUNCTIONAL INNERVATION OF BARREL CORTEX ONTO SINGLE PROJECTION NEURONS IN DORSAL STRIATUM AND ITS PLASTICITY AFTER SENSORIMOTOR LEARNING  -
Speaker: Kenza Amroune (France)

PS03-27AM-489  SINGLE NEURON ACTIVITY EVOLUTION IN GOAL DIRECTED LEARNING DURING AN OPERANT TASK: DIFFERENCES BETWEEN DIRECT AND INDIRECT STRIATAL PROJECTION NEURONS  -
Speaker: Sandra Fauli Perpiñá (Belgium)

PS03-27AM-490  THE RESPECTIVE ACTIVATION AND SILENCING OF STRIATAL DIRECT AND INDIRECT PATHWAY NEURONS SUPPORT BEHAVIOR ENCODING  -
Speaker: Christophe Varin (Belgium)

PS03-27AM-491  UNEXPECTED CONTRIBUTION OF STRIATAL PROJECTION NEURONS CO-EXPRESSING DOPAMINE D1 AND D2 RECEPTOR IN BALANCING MOTOR CONTROL  -
Speaker: Pilar Martínez Olondo (Belgium)
PS03-27AM-492 - A STRIATAL ROLE IN SENSORY-DRIVEN LEARNING BEHAVIORS
Speaker: Shriya Palchaudhuri (United States)

PS03-27AM-493 - CELL-TYPE SPECIFIC AUDITORY RESPONSES IN THE TAIL OF THE STRIATUM SHAPED BY FEEDFORWARD INHIBITION
Speaker: Mélanie Druart (United States)

PS03-27AM-494 - DISSECTION OF INTER-AREA INTERACTIONS OF MOTOR CIRCUITS
Speaker: Enida Gjoni (United States)

PS03-27AM-495 - EXPRESSION PROFILING OF THE LEARNING STRIATUM
Speaker: Christiane Schreiweis (France)

PS03-27AM-496 - MICRO-CIRCUITRY AND OUTPUT CONNECTIVITY OF THE STRIOSOME NETWORK
Speaker: Martha Milade Torres Nupan (Belgium)

PS03-27AM-497 - BASAL GANGLIA PATHWAYS FOR REGULATING MOTOR SKILL VARIABILITY
Speaker: Steffen Wolff (United States)

PS03-27AM-498 - EXTERNAL INPUTS PREFERENTIALLY DRIVE NEURONS IN THE STRIATAL MATRIX BUT NOT STRIOSOME
Speaker: Guo-Fang Tseng (Taiwan)

PS03-27AM-499 - SIGNAL INTEGRATION AND COMPETITION IN A BIOPHYSICAL MODEL OF THE SUBSTANTIA NIGRA PARS RETICULATA
Speaker: William Scott Thompson (Sweden)

PS03-27AM-500 - A NOVEL VIEW ON BASAL GANGLIA PATHWAYS: INSIGHTS FROM SYNAPTIC RESOLUTION CONNECTOMICS IN SONGBIRDS
Speaker: Alexandra Rother (Germany)

PS03-27AM-501 - THALAMIC INTERACTION OF BASAL GANGLIA AND CEREBELLAR CIRCUITS DURING MOTOR LEARNING
Speaker: Richard Roth (United States)

PS03-27AM-502 - LAMINAR DISTRIBUTION PATTERN AND SIZE OF CROSSED CORTICOSTRIATAL NEURONS IN MACAQUES
Speaker: Gemma Ballestrazzi (Italy)

PS03-27AM-503 - MOVEMENT INITIATION REVEALS A HYPERACTIVE DIRECT PATHWAY IN A MOUSE MODEL OF DYSTONIA
Speaker: Filipa França de Barros (Portugal)

PS03-27AM-504 - COGNITIVE AND MOTOR REGULATION BY THE NOVEL PTHLH INTERNEURON POPULATION IN THE MOUSE STRIATUM
Speaker: Monica Diez Salguero (Spain)

PS03-27AM-505 - NEURONAL TAXONOMY OF THE HUMAN DORSAL STRIATUM BY SINGLE NUCLEI TRANSCRIPTOMICS.
Speaker: Ana B. Muñoz-Manchado (Spain)

Poster Sessions
09:30 - 13:00

Poster Session 03 - Section 30
PS03-27AM-442 - IN-VIVO CO-REGISTERING OF FUNCTIONAL CALCIUM ACTIVITY WITH NINE OTHER VIRALLY EXPRESSED FLUOROPHORES THROUGH AN IMPLANTED GRIN LENS
Speaker: Nicolai Urban (United States)

PS03-27AM-443 - FUNCTIONAL CALCIUM IMAGING OF NINE NEURONAL POPULATIONS IN A FREELY MOVING SOCIAL TASK

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*Speaker:* Zsolt Mezriczky (Hungary)

**PS03-27AM-459**
LONGITUDINAL TRACKING OF HIPPOCAMPAL ACTIVITY WITH THE INSPLORER ENDOSCOPE IN FREELY MOVING MICE

*Speaker:* Attila Kaszas (France)

**PS03-27AM-460**
THREE-PHOTON INFRARED STIMULATION OF ENDOGENOUS NEURORECEPTORS IN VIVO

*Speaker:* Rosalba Sortino (Spain)

**PS03-27AM-461**
MAPPING OF NEURONAL POPULATIONS WITH LIGHT-SHEET FLUORESCENCE MICROSCOPY

*Speaker:* Giacomo Mazzamuto (Italy)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 03**

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**Poster Session 03 - Section 54**

**PS03-27AM-219**
TARGETING M-CURRENT: A NEW PRECISION MEDICINE APPROACH IN DRAVET SYNDROME

*Speaker:* Stefano Iavarone (Germany)

**PS03-27AM-220**
THE REGULATORY IMPACT OF THE BRG1 ATPASE OF SWI/SNF CHROMATIN REMODELING COMPLEX ON SEIZURE DEVELOPMENT

*Speaker:* Roberto Pagano (Poland)

**PS03-27AM-221**
DEVELOPMENT OF AN INNOVATIVE RADIOTHERAPY USING SYNCHROTRON-GENERATED X-RAY TO TREAT FOCAL EPILEPSY IN A MOUSE MODEL

*Speaker:* Loan Samalens (France)

**PS03-27AM-222**
A NOVEL UBQUITIN LIGASE ADAPTOR PTPRN SUPPRESSES SEIZURE SUSCEPTIBILITY THROUGH ENDOCYTOSIS OF NaV1.2 SODIUM CHANNELS

*Speaker:* Zhuo Huang (China)

**PS03-27AM-223**
INVESTIGATION OF N-ACETYL SPERMIN MECHANISM OF ACTION IN AN EX VIVO MODEL OF HUMAN BRAIN NEOCORTEX AND ITS USE AS A POTENTIAL ANTI-SEIZURE MEDICATION COMPOUND.

*Speaker:* Alice Podestà (Germany)

**PS03-27AM-224**
BEHAVIORAL AND NEUROTRANSMITTER CHANGES ON ANTI-EPILEPTIC DRUGS TREATMENT IN THE ZEBRAFISH PENTYLENETETRAZOL-INDUCED SEIZURE MODEL

*Speaker:* Kazuo Okanari (Japan)

**PS03-27AM-225**
CHEMOGENETIC MODULATION OF CX3CR1+ MICROGLIA IN THE INTRAHIPPOCAMPAL KAINIC ACID MOUSE MODEL OF DRUG-RESISTANT TEMPORAL LOBE EPILEPSY

*Speaker:* Jo Bossuyt (Belgium)

**PS03-27AM-226**
EFFECTS OF NEUROPEPTIDE S RECEPTOR SIGNALING ON EPILEPTIFORM ACTIVITY IN THE PIRIFORM CORTEX OF MICE

*Speaker:* ismail Abidin (Turkey)

**PS03-27AM-227**
A3 ADENOSINE RECEPTOR ACTIONS OF A NOMINALLY A1 RECEPTOR SELECTIVE AGONIST
Scientific programme
14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Speaker: Anwesha Ghosh (Portugal)
PS03-27AM-228 EMBEDDED SYSTEM FOR RESPONSIVE OPTOGENETIC CONTROL OF SPONTANEOUS SEIZURES IN TEMPORAL LOBE EPILEPSY

Speaker: Sofie Lasure (Belgium)
PS03-27AM-229 BDNF RESCUES ABSENCE SEIZURES AND THEIR COMORBID MEMORY DEFICITS

Speaker: Tatiana Morais (United Kingdom)
PS03-27AM-230 SELECTIVE NKCC1 INHIBITORS FOR THE TREATMENT OF BRAIN DISORDERS WITH DEFECTIVE CHLORIDE HOMEOSTASIS

Speaker: Annalisa Savardi (Italy)
PS03-27AM-231 RNA-BASED STRATEGIES TO RESCUE INHIBITION AS POTENTIAL TREATMENT FOR GABRA1-DEPENDENT EPILEPSY

Speaker: Sara Nencini (Italy)
PS03-27AM-232 IDENTIFICATION OF KAINIC ACID-MEDIATED CONCENTRATION-DEPENDENT RESPONSES ON HUMAN CORtical NEURONAL NETWORKS IN VITRO

Speaker: Lotta Isosaari (Finland)
PS03-27AM-233 NOVEL RAT MODEL OF DRAVET SYNDROME REVEALS FENFLURAMINE’S ANTIEPILEPTIC MECHANISM

Speaker: Hong Wang (China)
PS03-27AM-234 STIRIPENTOL HAS A DIRECT PHARMACODYNAMIC PROTECTIVE EFFECT AGAINST SEIZURES AND DEATH IN A MOUSE MODEL OF SUDEP

Speaker: Emmanuelle Simon O’Brien (France)
PS03-27AM-235 EXPLORING CHEMOCONVULSANT INDUCED NON-CODING RNA DYNAMICS IN RAT PRIMARY CORtical CELL CULTURES

Speaker: Meheli Banerjee (Finland)
PS03-27AM-236 A PH-SENSITIVE CLOSED-LOOP NANOMACHINE TO CONTROL HYPEREXCITABILITY AT THE SINGLE NEURON LEVEL

Speaker: Caterina Michetti (Italy)
PS03-27AM-237 PHARMACOLOGICAL CHARACTERIZATION OF A NOVEL KV7 POTASSIUM CHANNELS ACTIVATOR IDENTIFIED THROUGH A DRUG REPURPOSING STRATEGY

Speaker: Giusy Carleo (Italy)
PS03-27AM-238 CNS-TARGETED ANTIOXIDANT GENE THERAPY FOR TREATING EPILEPSY

Speaker: Tawfeeq Shekh-Ahmad (Israel)
PS03-27AM-239 TARGETING DYSREGULATED LONG NON-CODING RNA EXPRESSION AS NEW THERAPEUTIC STRATEGY IN TEMPORAL LOBE EPILEPSY

Speaker: Theresa Auer (Ireland)
PS03-27AM-240 PHOTOPHARMACOLOGY IN THE SPOTLIGHT: SPATIALLY SELECTIVE ADENOSINERGIC MODULATION OF HIPPOCAMPAL EXCITABILITY IN THE PURSUIT OF THERAPEUTIC INNOVATION IN TEMPORAL LOBE EPILEPSY

Speaker: Marijke Vergaelen (Belgium)
PS03-27AM-241 IN SILICO IDENTIFICATION, SYNTHESIS AND IN VITRO PHARMACOLOGICAL CHARACTERIZATION OF POTENT AND SELECTIVE BLOCKERS OF THE EPILEPSY-ASSOCIATED KCNT1 POTASSIUM CHANNEL

Speaker: Lidia Carotenuto (Italy)
A GENE THERAPY APPROACH FOR FOCAL EPILEPSY BASED ON GABA\(_A\) RECEPTOR OVEREXPRESSION

Speaker: Barbara Bettegazzi (Italy)

THE EFFECT OF TRPM2 INHIBITION ON 4-AP-INDUCED SEIZURE IN MOUSE BRAIN SLICE AND 4-AP-INDUCED NEURONAL DAMAGE IN HT-22 MOUSE HIPPOCAMPAL NEURONAL CELL LINE

Speaker: Ahmet Taskiran (Turkey)

CHARACTERIZATION OF THE PATHOPHYSIOLOGICAL MECHANISMS OF KCNQ2- DEVELOPMENTAL AND EPILEPTIC ENCEPHALOPATHY (KCNQ2-DEE) IN THE K\(_V7.2^{THR274MET/+}\) MOUSE MODEL

Speaker: Shaimaa Haiba (Germany)

ROLE OF KV7 CHANNELS IN RENIN ANGIOTENSIN SYSTEM (RAS)-INDUCED DISRUPTION OF THE BLOOD-BRAIN BARRIER

Speaker: Camilla Celentano (Italy)

GDNF SIGNALLING PATHWAYS IN ABSENCE SEIZURES.

Speaker: Klaudia Wojtal (Netherlands)

ANTISEIZURE EFFECTS OF LILII BULBUS ON PENTYLENETETRAZOL KINDLING-INDUCED SEIZURES IN MICE: INVOLVEMENT OF REELIN, NETRIN-1, AND SEMAPHORIN

Speaker: HEERA PARK (Korea, Republic of)

DREADD-BASED MANIPULATION OF HIPPOCAMPAL ASTROCYTE GQ SIGNALLING IN A CHRONIC MOUSE MODEL OF MEDIAL TEMPORAL LOBE EPILEPSY.

Speaker: Dimitri De Bundel (Belgium)

ASTROCYTE-BASED INTERLEUKIN-2 GENE THERAPY IN TEMPORAL LOBE EPILEPSY

Speaker: Evelien Hendrix (Belgium)

BOOSTING AS THERAPEUTIC APPROACH A HOMEOSTATIC RESPONSE PLAYED BY CHOLECYSTOKININ (CCK)-POSITIVE BASKET GABAERGIC NEURONS IN SCN1A\(^{+/−}\) DRAVET SYNDROME MICE.

Speaker: Evgeniia Rusina (France)

HIPPOCAMPAL ACTIVATION INDUCED BY VOLUNTARY APNEA IN RATS

Speaker: Simon Désiré GUEDANG NYAYI (Cameroon)

EFFECTS OF OVER ACTIVATION OF MTOR IN THE INFANT AMYGDALA ON ITS FUNCTIONALITY AT ADOLESCENCE IN RATS

Speaker: Auriane Gerbelot-Barrillon (France)

ARE THERE SPECIFIC FREEDIVING SKILLS? A COMPARATIVE STUDY OF TRAINING IN VOLUNTARY APNEA IN SPRAGUE DAWLEY AND LONG EVANS RATS

Speaker: Laetitia Chambrun (France)

THE STEROID SULFATASE INHIBITOR STX64 IMPROVES MICE COGNITIVE DEFICIENCIES ASSOCIATED TO AGING

Speaker: Juan Antonio Fernández Cabrera (Spain)

EFFECT OF DREAM INHIBITION ON AGING AND NEURODEGENERATION
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Speaker: Inés Sánchez (Spain)

PS03-27AM-078 PROTECTIVE EFFECTS OF INTRACRANIAL STIMULATION ON SPATIAL MEMORY AND CHANGES IN MirNA SERUM LEVELS IN A SPORADIC RAT MODEL OF ALZHEIMER DISEASE: A LONGITUDINAL STUDY

Speaker: Andrea Riberas Sánchez (Spain)

PS03-27AM-079 SULFIREXDOXIN 1 AMELIORATES OXIDATIVE STRESS IN HT22 CELLS AND ISCHEMIC DAMAGE IN GERBILS

Speaker: In Koo Hwang (Korea, Republic of)

PS03-27AM-080 CONSEQUENCES OF CHRONIC KIDNEY DISEASE ON NEURODEGENERATIVE PROCESSES IN 5/6NX RAT MODELS.

Speaker: Irene Cortijo (France)

PS03-27AM-081 ACUTE AND CHRONIC TRAMADOL-INDUCED COGNITIVE CHANGES IN MALE SPRAGUE-DAWLEY RATS

Speaker: Marie Heraudeau (France)

PS03-27AM-082 CHANGES IN NEUROTRANSMITTER ACTIVITY IN SEPTO-HIPPOCAMAL NETWORK IN NATURALLY AGED RATS AND A RAT MODEL OF AGING INDUCED BY D-GALACTOSE ADMINISTRATION: RELATIONSHIP WITH MEMORY IMPAIRMENT

Speaker: Ekaterine Kipiani (Georgia)

PS03-27AM-083 INVESTIGATING THE EFFECTS OF GSK-3B INHIBITION ON COGNITIVE DEFICITS IN THE SUB-CHRONIC PHENCYCLIDINE MODEL FOR COGNITIVE IMPAIRMENT ASSOCIATED WITH SCHIZOPHRENIA

Speaker: Huiming Zhu (United Kingdom)

PS03-27AM-084 NEUROPROTECTIVE EFFECTS OF MK801 AGAINST CEREBRAL ISCHEMIA-REPERFUSION INJURY

Speaker: Marie Heraudeau (France)

PS03-27AM-085 DIFFERENTIAL IMPACT OF CALORIE RESTRICTION ON MEMORY AND MTOR SIGNALING IN AGING FEMALE WISTAR RATS

Speaker: Milica Prvulovic (Serbia)

PS03-27AM-086 ATTEMPT TO PHARMACOLOGICALLY INDUCE NEUROVASCULAR UNCOUPLING IN AGED, EXPERIENCED RATS

Speaker: István Gyertyán (Hungary)

PS03-27AM-087 CRANIAL IRRADIATION DIRECTED TO THE RIGHT HEMISPHERE CAUSES COGNITIVE IMPAIRMENT IN ASSOCIATION WITH INCREASED OXIDATIVE STRESS.

Speaker: Georgina Pearson (United Kingdom)

PS03-27AM-088 EVALUATION OF NOVEL OBJECT RECOGNITION TEST RESULTS OF RATS INJECTED WITH INTRACEREBROVENTRICULAR STREPTOZOCIN TO DEVELOP ALZHEIMER’S DISEASE MODELS

Speaker: Berna Özen (Turkey)

PS03-27AM-089 NICOTINAMIDE SUPPLEMENTATION MITIGATES SYNAPTIC PLASTICITY IMPAIRMENT AND COGNITIVE DECLINE AFTER TIBIAL FRACTURE SURGERY IN AGING MICE

Speaker: tatiana guncay (Chile)

PS03-27AM-090 LOU/C/JALL RAT AS A RESILIENCE MODEL IN THE CONTEXT OF SPORADIC ALZHEIMER’S DISEASE INDUCED BY STREPTOZOTOZIN.

Speaker: Lucas Gephine (France)

PS03-27AM-091 DIETARY RESTRICTION DURING ADOLESCENCE IMPROVES THE MEMORY PERFORMANCE OF OLD FEMALE WISTAR RATS IN AN ONSET- AND DURATION-DEPENDENT MANNER
Speaker: Andjela Vukojevic (Serbia)
PS03-27AM-092 NORADRENERGIC AGONISTS AS NEW TREATMENT OPPORTUNITY AGAINST RADIATION-INDUCED COGNITIVE DECLINE

Speaker: Isabeau De Bie (Belgium)
PS03-27AM-093 IMPACTS OF CIPROXIFAN ON THE TISSUE OF THE HIPPOCAMPUS IN RATS WITH CEREBRAL ISCHEMIA-REPERFUSION

Speaker: Bengi Yegin (Turkey)

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09:30 - 13:00

Poster Session 03 - Section 111
PS03-27AM-396 AN ACTIVITY-DEPENDENT LOCAL TRANSPORT REGULATION VIA LOCAL SYNTHESIS OF KINESIN SUPERFAMILY PROTEINS (KIFS) UNDERLYING COGNITIVE FLEXIBILITY
Speaker: Suguru Iwata (Japan)

PS03-27AM-397 KIF5B PLAYS IMPORTANT ROLES IN DENDRITIC SPINE PLASTICITY AND DENDRITIC LOCALIZATION OF PSD95 AND FMRP IN THE MOUSE CORTEX IN VIVO
Speaker: Cora Sau Wan Lai (Hong Kong)

PS03-27AM-398 HETEROGENEOUS AND SPECIFIC SYNAPTIC LOCALIZATION OF DIFFERENT MRNAS IN NEURONAL DENDRITES
Speaker: Kwok On Lai (Hong Kong)

PS03-27AM-399 THE SERINE-THREONINE KINASE NDR2 IMPAIRS SPATIAL MEMORY AND REGULATES AUTOPHAGY AND PROTEIN EXPRESSION IN THE SYNAPSES OF THE AGEING HIPPOCAMPUS
Speaker: Miguel del Angel (Germany)

PS03-27AM-400 NEURONS REPURPOSE THE INTEGRATED STRESS RESPONSE EFFECTOR GADD34 TO ENHANCE PROTEIN SYNTHESIS IN RESPONSE TO NEURONAL ACTIVITY.
Speaker: Mauricio Oliveira (United States)

PS03-27AM-401 VEGFD SIGNALING BALANCES STABILITY AND ACTIVITY-DEPENDENT STRUCTURAL PLASTICITY OF DENDRITES
Speaker: Daniela Mauceri (Germany)

PS03-27AM-402 LOCAL PROTEIN SYNTHESIS IN CORTICAL LAYER 1
Speaker: Teresa Spanò (Germany)

PS03-27AM-403 FILAMIN A MODULATES DENDRITIC BRANCHING VIA INTEGRIN-AKT AXIS AND ACTIN CYTOSKELETON
Speaker: Yunus Emre Demiray (Germany)

PS03-27AM-404 ADAPTIVE DECISION-MAKING REQUIRES RNF10-MEDIATED SYNAPSE-TO-NUCLEUS SIGNALING
Speaker: Diego Scheggia (Italy)

PS03-27AM-405 TOWARDS A MATHEMATICAL MODEL OF MICROTUBULES IN NEURITES
Speaker: Max Schelski (Germany)

PS03-27AM-406 DENDRITIC MITOCHONDRIAL TRANSPORT IN MATURE NEURONS IS IMPORTANT FOR MOTOR SKILL LEARNING.
Speaker: Hae-Na Choi (Germany)

PS03-27AM-407 MODULATION OF GAP43 EXPRESSION THROUGH NDR2 KINASE IN THE AGEING BRAIN

Speaker: Daniela Mauceri (Germany)
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<td><strong>HOW THE MOLECULAR DYNAMICS IN AXONS SHAPE</strong>&lt;br&gt;<strong>PRESYNAPTIC RESPONSE</strong></td>
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**Speaker:** Sara Mahallati (Canada)

**PS03-27AM-133** - HIPPOCAMPAL-THALAMO-CORTICAL COUPLING IN SPATIAL LEARNING AND MEMORY CONSOLIDATION

**Speaker:** Myriam Azzarelli (France)

**PS03-27AM-134** - NETWORK DETERMINANTS OF EPILEPSY MULTIDEN CYCLICITY

**Speaker:** Marco Pompili (France)

**PS03-27AM-135** - IDENTIFYING CRITICAL BRAIN-WIDE INFORMATION FLOWS THROUGH NEURONAL CELL ASSEMBLIES

**Speaker:** Pietro Bozzo (France)

**PS03-27AM-136** - SHARP-WAVE RIPPLES TRANSMIT HIPPOCAMPAL TO NEOCORTICAL INFORMATION. A HUMAN SINGLE-NEURON STUDY.

**Speaker:** Fabian Schwimmbeck (Austria)

**PS03-27AM-137** - HUMAN SINGLE NEURONS LOCK TO THETA PHASES DURING MEMORY ENCODING AND RETRIEVAL

**Speaker:** Tim Guth (Germany)

**PS03-27AM-138** - SLEEP STAGE-DEPENDENT FUNCTIONAL COUPLING BETWEEN PGO WAVES AND HIPPOCAMPAL ENSEMBLES IN MICE

**Speaker:** Tomomi Tsunematsu (Japan)

**PS03-27AM-139** - STATE-DEPENDENT LATERALIZATION OF HIPPOCAMPAL ELECTROPHYSIOLOGICAL ACTIVITY IN URETHANE ANESTHETIZED RATS

**Speaker:** Miriam Nokia (Finland)

**PS03-27AM-140** - WAKEFUL SLOW, OSCILLATORY, TRANSCRANIAL ELECTRICAL STIMULATION (SO-TES) DOES NOT INFLUENCE OVERNIGHT MEMORY CONSOLIDATION, BUT MAY ALTER CHARACTERISTICS OF SUBSEQUENT SLEEP

**Speaker:** Julia Wood (Australia)

**PS03-27AM-141** - RIPPLE EVENTS IN THE PRIMATE VISUAL CORTEX

**Speaker:** Katarina Studenícová (Czech Republic)

**PS03-27AM-142** - GENE EXPRESSIONS RELATED TO HIPPOCAMPAL RIPPLES

**Speaker:** Haruya Yagishita (Japan)

**PS03-27AM-143** - THE IMPACT OF MEMORY CONSOLIDATION ON REM SLEEP ARCHITECTURE IN RODENTS: AN INSIGHT INTO PHASIC AND TONIC SUBSTATES

**Speaker:** Abdelrahman (Abdel) Rayan (Netherlands)

**PS03-27AM-144** - BURSTS OF HIGH FREQUENCY OSCILLATIONS UNDERLIE ENCODING AND RECALL OF SPECIFIC MEMORY ITEMS

**Speaker:** Jan Cimbalník (Czech Republic)

**PS03-27AM-145** - CLOSED-LOOP ACOUSTIC STIMULATION TARGETING MEMORY CONSOLIDATION IN MICE

**Speaker:** Lisa Marshall (Germany)

**PS03-27AM-146** - CAUSAL ROLE OF PFC-M1 COORDINATION DURING SLEEP IN LONG-TERM MOTOR MEMORY CONSOLIDATION

**Speaker:** Jae Kyung Kim (Korea, Republic of)

**PS03-27AM-147** - EMOTIONAL MEMORY REACTIVATION SUPPORTS FLEXIBLE SLEEP STRATEGIES

**Speaker:** Menghan Yu (China)

**PS03-27AM-148** - DRIFTING MEMORIES: SLEEP STAGES PLAY OPPOSITE ROLES IN RESHAPING MEMORY REPRESENTATIONS.
Speaker: Federico Stella (Netherlands)

**PS03-27AM-149**  
HIPPOCAMPAL MYELINATION SPEEDS UP PV+BC INHIBITION AND RIPPLE FREQUENCIES.

Speaker: David Vandael (Netherlands)

**PS03-27AM-150**  
MEMORY GENERALIZATION AND OVERGENERALIZATION IN SLEEP

Speaker: Ella Bar (Israel)

**PS03-27AM-151**  
ALTERED HIPPOCAMPAL SHARP-WAVE RIPPLES PLAYS A ROLE IN IMPAIRED MEMORY CONSOLIDATION IN CHRISTIANSON SYNDROME MOUSE MODEL

Speaker: Jamie Mustian (Canada)

**PS03-27AM-152**  
INTRINSIC BIOPHYSICAL PROPERTIES AND EXTRINSIC SPATIAL EXPERIENCE COLLABORATIVELY PRIME CA1 PYRAMIDAL CELLS TO REPLAY DURING SHARP-WAVE RIPPLES

Speaker: Xiaomin Zhang (Switzerland)

**PS03-27AM-153**  
PREDICTING MEMORY PERFORMANCES IN HUMANS USING CORTICALLY DISTRIBUTED SEEG SIGNALS

Speaker: Ana Reinartz Groba (Norway)

**PS03-27AM-154**  
INHIBITORY PLASTICITY SUPPORTS CONSOLIDATION OF GENERALIZABLE MEMORIES

Speaker: Zhenrui Liao (United States)

**PS03-27AM-155**  
DIVERSITY OF CORTICAL SPINDLES IN RODENTS, A ROLE FOR EXPERIENCE ENCODING?

Speaker: Annie Durand-Marandi (United Kingdom)

**PS03-27AM-156**  
SLEEP SLOW OSCILLATION-SPINDEL COUPLING PRECEDES SPINDEL-ripples COUPLING DURING DEVELOPMENT

Speaker: Julia Fechner (Germany)

**PS03-27AM-157**  
THE ROLE OF SLEEP IN THE ABSTRACTION OF SPATIAL CONTEXT MEMORY IN TODDLERS

Speaker: Lisa-Marie Bastian (Germany)

**PS03-27AM-158**  
EXPLORING CORTICO-hipPOCAMPAL DYNAMICS DURING SHARP-WAVE RIPPLES WITH MONTHS-LONG TRACKING OF NEURONAL ENSEMBLES VIA ULTRA-FLEXIBLE TENTACLE ELECTRODES

Speaker: Peter Gombkoto (Switzerland)

**PS03-27AM-159**  
TWO DISTINCT WAYS TO FORM LONG-TERM OBJECT RECOGNITION MEMORY DURING SLEEP AND WAKEFULNESS

Speaker: Max Harkotte (Germany)

**PS03-27AM-160**  
SOMATO-DENDRITIC DECOUPLING IN THE RETROSPLENIAL CORTEX NEURONS DURING REM SLEEP

Speaker: Micaela Borsa (Switzerland)

**PS03-27AM-161**  
CASCADING MEMORY SEARCH AS A BRIDGE BETWEEN EPISODIC MEMORIES AND SEMANTIC KNOWLEDGE

Speaker: Achiel Fenneman (Austria)

**PS03-27AM-162**  
REPLAY OF LETTER STRINGS BY SINGLE NEURONS IN MEDIAL TEMPORAL LOBE AND AUDITORY CORTEX EEG DURING VERBAL WORKING MEMORY MAINTENANCE

Speaker: Filippo Costa (Switzerland)
PS03-27AM-194 - NEUROCOMPUTATIONAL INVESTIGATION OF HUMAN SCHEMA-BASED LEARNING, DECISION MAKING AND THEIR MODULATORS IN ECOLOGICAL SETTINGS

Speaker: Haiyun Kong (United Kingdom)

PS03-27AM-195 - COMPUTATIONAL MODEL-BASED ANALYSIS OF SPATIAL NAVIGATION STRATEGIES UNDER STRESS AND UNCERTAINTY USING PLACE, DISTANCE AND BORDER CELLS

Speaker: Yanran Qiu (Germany)

PS03-27AM-196 - INVESTIGATING NEUROCOGNITIVE MECHANISMS AND MODULATORY FACTORS OF NEWS-RELATED DECISION MAKING USING MYNEWSSCAN PLATFORM

Speaker: Yiyang Zhang (United Kingdom)

PS03-27AM-197 - EARLY SALIENCE SIGNALS PREDICT ASYMMETRY IN DECISION ACCURACY ACROSS REWARDING AND PUNISHING CONTEXTS

Speaker: Sean Westwood (United Kingdom)

PS03-27AM-198 - SPATIOTEMPORAL DISSOCIATION OF REWARD COMPONENTS IN THE MIDBRAIN: AN EEG-FMRI 7T STUDY

Speaker: Joana Carvalheiro (United Kingdom)

PS03-27AM-199 - COGNITIVE COMPUTATIONAL MODEL REVEALS REPETITION BIAS IN A SEQUENTIAL DECISION-MAKING TASK

Speaker: Eric Legler (Germany)

PS03-27AM-200 - GOAL-DIRECTED MODULATION OF HABITUAL BEHAVIOUR

Speaker: Sascha Frölich (Germany)

PS03-27AM-201 - NEURAL MECHANISMS OF HUMAN FOOD CHOICE: NUTRITIVE AND SENSORY FOOD PROPERTIES SHAPE ECONOMIC DECISIONS FOR ORALLY SAMPLED FOODS

Speaker: Tavish Traut (United Kingdom)

PS03-27AM-202 - PRIMATE AMYGDALA NEURONS SIGNAL ORAL-SENSORY AND NUTRIENT REWARD COMPONENTS DURING VALUE-BASED DECISION-MAKING

Speaker: Fei-Yang Huang (United Kingdom)

PS03-27AM-203 - BEHAVIOURAL AND NEURAL INFLUENCES OF SOCIAL PARTNER’S MOTIVATIONAL TYPE ON FOOD PREFERENCE

Speaker: Tobias Johnson (United Kingdom)

PS03-27AM-204 - DYNAMIC CODES FOR REWARD PROBABILITY AND RISK IN PRIMATE AMYGDALA NEURONS

Speaker: Fabian Grabenhorst (United Kingdom)

PS03-27AM-205 - REWARD EXPECTATION MODULATES NEURONAL DYNAMICS AND NETWORK ORGANIZATION IN PREMOTOR CORTEX

Speaker: Valentina Giuffrida (Italy)

PS03-27AM-206 - THE INTERPLAY BETWEEN LOW AND HIGH LOCAL FIELD POTENTIAL OSCILLATION IN THE PREMOTOR CORTEX OF MONKEY REFLECTS THE DECISION PROCESSED DURING A TRANSITIVE INFERENCE TASK

Speaker: ISABEL BEATRICE MARC (Italy)

PS03-27AM-207 - THE ROLE OF COMT VAL158MET POLYMORPHISM IMPACTS THE PERFORMANCE IN SOLVING TRANSITIVE INFERENCE PROBLEMS

Speaker: Ann Paul (Italy)

PS03-27AM-208 - MODELING THE INTERPLAY OF MOTIVATION AND LEARNING IN MOUSE PERCEPTUAL DECISION-MAKING

Speaker: Giulio Matteucci (Switzerland)
PS03-27AM-209  STRATEGIC DECISION BIAS RELATES TO ALTERED PARietAL EVIDENCE ACCUMULATION AND SCALES WITH TASK-EVOKED, BUT NOT BASELINE, NEUROMODULATOR ACTIVITY  
*Speaker*: Stijn Nuiten (Switzerland)

PS03-27AM-210  SENSE OF AGENCY INCREASES THE NEUROPHYSIOLOGICAL IMPACT OF POSITIVE AND NEGATIVE ACTION OUTCOMES DURING GOAL-DIRECTED ACTION  
*Speaker*: Maren Giersiepen (Germany)

PS03-27AM-211  A NEUROCOMPUTATIONAL APPROACH FOR EFFORT-BASED DECISION-MAKING: COMPARING SELF AND ENVIRONMENTAL MOTIVATION  
*Speaker*: Boryana Todorova (Austria)

PS03-27AM-212  WHERE PERSONALITY, MEMORY AND DECISION-MAKING MEET: A COGNITIVE-BEHAVIORAL NEUROSCIENCE STUDY.  
*Speaker*: Alejandro Sospedra Orellano (Spain)

PS03-27AM-213  ASYMMETRICAL MODULATIONS OF DECISION AND MOVEMENT SPEEDS DURING SELF-PACED FORAGING REVEAL THE DORSAL STRIATUM SELECTIVE CONTRIBUTION TO EFFORT SENSITIVITY  
*Speaker*: Thomas Morvan (France)

PS03-27AM-214  PUPIL DYNAMICS PRECEDING SWITCHES IN TASK ENGAGEMENT  
*Speaker*: Philippa Johnson (Netherlands)

PS03-27AM-215  THE VIGOR OF COSTLY PUNISHMENTS: KINEMATICS INSIGHTS INTO SOCIO-ECONOMIC DECISION-MAKING  
*Speaker*: Oriana Pansardi (Germany)

PS03-27AM-216  DIFFERENT PAVLOVIAN CONDITIONING STYLES INFLUENCE SUBOPTIMAL CHOICES  
*Speaker*: Luigi Degni (Italy)

PS03-27AM-217  PROBING DIFFERENCES IN DECISION PROCESS SETTINGS ACROSS CONTEXTS AND INDIVIDUALS THROUGH JOINT RT-EEG HIERARCHICAL MODELLING  
*Speaker*: John Egan (Ireland)

PS03-27AM-218  DO SOCIAL STIMULI RULE OVERT VISUAL ATTENTION PRIORITIES? AN EYE-TRACKING STUDY  
*Speaker*: Bertrand Beffara (France)

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**Poster Sessions**

**Poster Session 03 - Section 107**

PS03-27AM-025  INDIVIDUAL BEHAVIORAL PROFILING AS A TRANSLATIONAL APPROACH FOR ASSESSING TREATMENT RESPONSIVENESS IN AN ANIMAL MODEL OF PTSD  
*Speaker*: Maja Snippe Strauss (Israel)

PS03-27AM-026  DIETARY RESTRICTION RESCUES ADAPTIVE BEHAVIORS IN PTSD-LIKE RATS  
*Speaker*: Amir Benhos (Israel)

PS03-27AM-027  EXPLORING THE INFLUENCE OF DISTINCT DENTATE GYRUS INTERNEURON SUBTYPES ON COPING BEHAVIOR  
*Speaker*: Adi Tenenhaus Zamir (Israel)

PS03-27AM-028  CARBON MONOXIDE AS POTENT MODULATOR OF PAIN- AND ANXIETY-RELATED BEHAVIOR IN EXPERIMENTAL CHRONIC PELVIC PAIN SYNDROME  
*Speaker*: Nikola Šutulović (Serbia)
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<td>Dusan Mladenovic (Serbia)</td>
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<td>PS03-27AM-030</td>
<td>LINDANE TOXICITY AMELIORATION BY DELTA SLEEP PEPTIDE SUPPLEMENTATION: ADVANCED EEG STUDY</td>
<td>Olivera Stanojlovic (Serbia)</td>
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<td>CORTICOSTERONE AS A PREVENTIVE TREATMENT FOR A PTSD-LIKE ANIMAL MODEL AND ITS IMPACT ON THE NEURAL ACTIVITY OF THE BASOLATERAL AMYGDALA.</td>
<td>Leire Rodriguez Romero (Spain)</td>
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<td>BETA-CARYOPHYLLENE (BCP) AND STRESS RESILIENCE: BEHAVIORAL AND MOLECULAR INSIGHTS IN DEPRESSION-RELATED DISORDERS</td>
<td>Basak Gündüz (Germany)</td>
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<td>Julia Welte (France)</td>
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<td>PS03-27AM-035</td>
<td>DIFFERENTIAL NEURAL OSCILLATION DYNAMICS IN BASOLATERAL AMYGDALA AND MEDIAL PREFRONTAL CORTEX INDUCED BY ALLOPREGNANOLONE AND DIAZEPAM DURING SOCIAL BEHAVIOR</td>
<td>Yosuke Yawata (Japan)</td>
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<td>CHOLECYSTOKININ A RECEPTOR IN THE MEDIAL PREOPTIC AREA GABAERGIC CELLS MODULATE MALE-SPECIFIC ANXIETY-LIKE BEHAVIORS</td>
<td>Yanyi Zhang (China)</td>
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<td>PS03-27AM-037</td>
<td>EFFECT OF ENRICHED ENVIRONMENT AND ARIPIPRAZOLE ON SELECTED BEHAVIORAL OUTCOMES AND NEUROGENIC MARKERS IN ANIMAL MODEL OF PTSD</td>
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<td>INVESTIGATING THE GLUCOSE TRANSPORTER 2 POSITIVE CELLS IN THE MEDIAL PREFRONTAL CORTEX AND THEIR ASSOCIATION WITH POSTTRAUMATIC STRESS DISORDER IN A MICE MODEL</td>
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<td>CENTRALLY LOCATED TRANSIENT RECEPTOR POTENTIAL ANKYRIN 1 ION CHANNEL MAY EXERT DIVERSE IMPACT ON THE SYMPTOMS OF POSTTRAUMATIC STRESS DISORDER IN MICE</td>
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<td>PS03-27AM-041</td>
<td>Saporin-anti-vesicular gaba transporter conjugates as lesioning agents in the rat basolateral amygdala - a potential tool to create a new animal model of pathological anxiety?</td>
<td>Tamara Radukic (Serbia)</td>
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<td>BEHAVIOURAL CONTROL TRAINING PROMOTES</td>
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Antidepressant/Anxiolytic-like Reversal of Chronic Stress-Induced Behavioural Deficits: Endocannabinoidergic and Prolactinergic Mechanisms

Speaker: Francis Bambico (Canada)

PS03-27AM-043 Effects of Alprazolam on Anxiety-Related Behavior in an Invertebrate Model: Advancing Translational Neuroscience

Speaker: Veronica Rivi (Italy)

PS03-27AM-044 Network-Level Disruptions in Vulnerable Individuals Contribute to Enhanced Fear Generalization in a Rodent Model of PTSD

Speaker: Robert Daniel Marothy (Hungary)

PS03-27AM-045 Testosterone Rescues Anxiety Related Blood Brain Barrier Differences in the Nucleus Accumbens

Speaker: Haissa de Castro (Switzerland)

PS03-27AM-046 Acute Stress via Retrograde Endocannabinoid Signaling Disrupts Engram Ensemble Specificity to Generalize Threat Memory in Mice

Speaker: Sylvie Lesuis (University of Amsterdam, Netherlands)

Poster Sessions
09:30 - 13:00

Poster Session 03 - Section 164

PS03-27AM-462 Multisensory Stimulation Improves Target Tracking in Zebrafish During Rheotaxis

Speaker: Sevval Izel Solmaz (Turkey)

PS03-27AM-463 A Fish-In-The-Loop System to Study the Underlying Mechanisms of Active Sensing

Speaker: Emin Yusuf Aydin (Turkey)

PS03-27AM-464 Localization of Weakly Electric Fish Using Electric Field Recordings and ANNs

Speaker: Baris Yuksekaykaya (Turkey)

PS03-27AM-465 Examining Multisensory Integration in Weakly Electric Fish Through Manipulating Sensory Salience

Speaker: Emine Ceren Rutbil (Turkey)

PS03-27AM-466 A Novel Multisensory Stimulation Setup for Refuge Tracking in Weakly Electric Fish

Speaker: Alp Demirel (Turkey)

PS03-27AM-467 Cross-Validation Under Different Sensory Conditions Reveals the Practical Validity of the MVUE Model

Speaker: Fatmagul Ibisoglu (Turkey)

PS03-27AM-468 Embedding Soft Stretchable Sensors for Precise Mechanical Stimulation and Beyond

Speaker: Selin Kumbay Yildiz (Turkey)

PS03-27AM-469 Advancing Mechanotransduction Research: Development and Evaluation of an Affordable Membrane-Based Cell Stretching Device

Speaker: Pervin Rukiye Dincer (Turkey)

PS03-27AM-470 Visuomotor Control in Virtually Swimming Danionella Larvae

Speaker: Leonardo Demarchi (France)
PS03-27AM-471  LOCOMOTOR MATURATION DURING EARLY DEVELOPMENT IN A SMALL VERTEBRATE
Speaker: Monica Coraggioso (France)

PS03-27AM-472  UNTANGLING THE CONNECTIONS BETWEEN THE HEART AND BRAIN IN LARVAL ZEBRAFISH
Speaker: Kristian Herrera (United States)

PS03-27AM-473  SENSORY CHANNELS OF CARDIAC INTERCEPTION
Speaker: Nikolai Hoermann (United States)

PS03-27AM-474  VISUOMOTOR MISMATCH-DRIVEN SHORT TERM BEHAVIORAL ADAPTATION IN LARVAL ZEBRAFISH
Speaker: Amey Shenoy (Germany)

PS03-27AM-475  A BEHAVIORAL SETUP FOR CAPTURING FINE GRAINED COORDINATED 3D MOVEMENTS OF ZEBRAFISH LARVAE
Speaker: Katharina Koetter (Germany)

PS03-27AM-476  SENSORIMOTOR REPRESENTATIONS OF STIMULUS VELOCITY IN LARVAL ZEBRAFISH
Speaker: Ot Prat (Germany)

PS03-27AM-477  DISTINCT AND ASYMMETRIC RESPONSES TO PITCH-TILT AXIS AND ROLL-TILT AXIS VESTIBULAR STIMULATION IN LARVAL ZEBRAFISH
Speaker: Sharbatanu Chatterjee (France)

PS03-27AM-478  THE ROLE OF MOTOR VAGUS NERVE FOR CARDIAC AND GILL VASOCONSTRICITION CONTROL IN LARVAL ZEBRAFISH
Speaker: Aysenur Akbulut (United States)

PS03-27AM-479  CILIA-MEDIATED CEREBROSPINAL FLUID FLOW MODULATES NEURONAL AND ASTROGLIAL ACTIVITY IN THE ZEBRAFISH LARVAL BRAIN.
Speaker: Percival Paul D’Gama (Norway)

PS03-27AM-480  SENSORY SOMATOTOPY OF FLOW STIMULI IN A SENSORY INTEGRATION CENTER IN THE ZEBRAFISH HINDBRAIN
Speaker: Elias Lunsford (France)

PS03-27AM-481  SENSORIMOTOR INTEGRATION IN THE ZEBRAFISH INFERIOR OLIVE DURING MOTOR ADAPTATION
Speaker: Pierce Mullen (United Kingdom)

PS03-27AM-482  CUTTLEFISH COMMUNICATE WITH ARM WAVE SIGNS PERCEIVED BY MECHANORECEPTION IN THE LATERAL LINES.
Speaker: Sophie Cohen Bodenes (France)

PS03-27AM-483  THE IMPACT OF CEREBROSPINAL FLUID FLOW ON THE BRAIN METABOLIC LANDSCAPE AND ANIMAL BEHAVIOR
Speaker: Mert Ege (Norway)

PS03-27AM-484  SILJFISH 3.0: A SOFTWARE TOOL TO MODEL SWIMMING BEHAVIOR AND ITS APPLICATION FOR MODELING SWIMMING SPEED MICROCIRCUITS IN LARVAL ZEBRAFISH
Speaker: Emine Topcu (Canada)

PS03-27AM-485  A CHEMOSENSORY ROLE OF CEREBROSPINAL FLUID (CSF)-CONTACTING NEURONS IN DETECTING AND RESPONDING TO PATHOLOGICAL CHANGES IN CEREBROSPINAL FLUID
Speaker: Feng QUAN (France)
Poster Sessions
09:30 - 13:00

**Poster Session 03 - Section 80**

PS03-27AM-001 - INHIBITORY DETERMINANTS OF MEMORY REACTIVATION IN THE HIPPOCAMPUS
*Speaker:* Andrea Gallardo Molina (Spain)

PS03-27AM-002 - AUTOMATIC CLASSIFICATION OF THE HIPPOCAMPAL NEURONAL DIVERSITY FROM LARGE-SCALE EXTRACELLULAR RECORDINGS
*Speaker:* Pablo Abad Pérez (Spain)

PS03-27AM-003 - REPRESENTATION OF SPATIAL CONTEXT OVER TIME BY INTERNEURONS IN THE DENTATE GYRUS
*Speaker:* Aurore Cazala (Germany)

PS03-27AM-004 - SLOW EMERGENCE OF LONG-TERM STABLE SPATIAL CODES IN THE MOUSE DENTATE GYRUS
*Speaker:* Antje Kilias (Germany)

PS03-27AM-005 - CONTRIBUTION OF MEC LAYER II CELLS TO DG GRANULE CELLS’ SPATIAL ACTIVITY REVEALED BY TRANSGENIC CHEMGENETIC MANIPULATION
*Speaker:* Thibault Cholvin (Germany)

PS03-27AM-006 - MORPHOLOGICAL AND FUNCTIONAL CHARACTERISTICS OF NDNF EXPRESSING INTERNEURONS IN THE MOUSE DENTATE GYRUS
*Speaker:* Federico Torelli (Germany)

PS03-27AM-007 - CELL-TYPE SPECIFIC ACTIONS OF NOGO-A IN CONTROLLING SPATIAL MEMORY FORMATION BY MODULATING NEURONAL EXCITABILITY
*Speaker:* Jan Flechtnert (Germany)

PS03-27AM-008 - NOGO-A REGULATES FEAR MEMORY PROCESSES AND MEMORY ENGRAM FORMATION BY MODULATING NEURONAL EXCITABILITY IN A SEX SPECIFIC MANNER
*Speaker:* Sebastian Stork (Germany)

PS03-27AM-009 - ENVIRONMENTAL ENRICHMENT INCREASES LATERAL INHIBITION IN THE HIPPOCAMPUS
*Speaker:* Stylianos Kouvaros (Switzerland)

PS03-27AM-010 - ENVIRONMENTAL ENRICHMENT PROMOTES SPARSE CODING IN HIPPOCAMPUS VIA INCREASED DENDRITIC INHIBITION
*Speaker:* Ekaterina Verdiyan (Switzerland)

PS03-27AM-011 - INHIBITORY SYNAPTIC REMODELING OF HIPPOCAMPAL ENGRAM NEURONS DURING EPISODIC MEMORY CONSOLIDATION
*Speaker:* Andrin Abegg (Switzerland)

PS03-27AM-012 - NEUROPEPTIDE Y EFFECTS ON HIPPOCAMPAL NETWORK OSCILLATIONS IN VITRO
*Speaker:* Evangelia Pollali (Germany)

PS03-27AM-013 - OPTOGENETICALLY DE-ENERGIZED MITOCHONDRIA OF PARVALBUMIN-POSITIVE INTERNEURONS IMPAIR SPATIAL PROPERTIES WITHIN THE CA1 REGION OF THE HIPPOCAMPUS
*Speaker:* Rina Patel (Germany)

PS03-27AM-014 - IMPACT OF HIPPOCAMPAL PARVALBUMIN INTERNEURONS ON MEMORY IMPAIRMENT IN RAT MODELS OF PARKINSON'S DISEASE
*Speaker:* Ljiljana Radovanovic (Serbia)
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<td><strong>Speaker:</strong> Andrea Misol Ortiz (Spain)</td>
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<td><strong>PS03-27AM-377</strong> - ** Astrocyte Activity Triggers Adaptive Myelin Plasticity and Increased Neuronal Excitability in the Somatosensory Cortex Following Sensory Deprivation.**</td>
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**Speaker:** Thomas Jensen (United Kingdom)

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<td>ASTROCYTES' GRASP ON THE BRAIN</td>
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IDENTITIES, DEVELOPMENT, AND FUNCTIONS
Speaker: Annalisa Buffo (Italy)

Scientific Symposia (S)
09:45 - 11:15

S17 - Internal world models in humans, animals, and artificial intelligence
Chair: Ilka Diester (University of Freiburg, IMBIT // BrainLinks-BrainTools, Germany)
Chair: David Dupret (University of Oxford, United Kingdom)

Introduction
09:45 - 09:47
Inferring internal models of the environment across hippocampal and neocortical circuits
09:47 - 10:05

Speaker: Helen C Barron (University of Oxford, MRC Brain Network Dynamics Unit and the Wellcome Centre for Integrative Neuroimaging, United Kingdom)

Q&A
10:05 - 10:09

Bayesian inference and model-based reinforcement learning
10:09 - 10:27
Speaker: Kenji Doya (Okinawa Institute of Science and Technology Graduate University, Japan)

Q&A
10:27 - 10:31

Deep Learning for Artificial Intelligence
10:31 - 10:49
Speaker: Thomas Brox (University of Freiburg, Germany)

Q&A
10:49 - 10:53

Towards the neural underpinnings of structure learning
10:53 - 11:11
Speaker: Alla Karpova (HHMI/ Janelia research campus, United States)

Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S18 - Microglia-neuron interactions: beyond synaptic pruning
Chair: Corentin Le Magueresse (Institut du Fer à Moulin - INSERM, France)
Chair: Rosa Paolicelli (Department of Biomedical Sciences, University of Lausanne, Switzerland, Switzerland)

Introduction
09:45 - 09:47

Complement controls spine turnover and synapse function through distinct microglial receptors
09:47 - 10:05

Speaker: Corentin Le Magueresse (Institut du Fer à Moulin - INSERM, France)

Q&A
10:05 - 10:09

Microglia govern synapse formation in the normal adult brain through P2Y12 signaling
10:09 - 10:27
Speaker: Laetitia Weinhard (NYU, United States)

Q&A
10:27 - 10:31

Neuronal activity and immune cues modulate microglia-neuron crosstalk at the nodes of Ranvier
10:31 - 10:49
Speaker: Anne Desmazieres (Paris Brain Institute/Institut du Cerveau (ICM), France)

Q&A
10:49 - 10:53

Microglia modulate neuronal and vascular responses via purinergic and inflammatory pathways
10:53 - 11:11
Speaker: Adam Denes (Institute of Experimental Medicine, Hungary)
Q&A  11:11 - 11:15

Scientific Symposia (S)  
09:45 - 11:15

**S19 - Spatial Multiomics: Implications for Understanding the Brain**  
Chair: Ozgun Gokce (Medical Faculty, University of Bonn German Center for Neurodegenerative Diseases (DZNE), Germany)  
Chair: Gonçalo Castelo-Branco (Karolinska Institutet, Sweden)  

**Introduction**  
09:45 - 09:47

**Correlating Spatial Transcriptomics with EM to Study Brain Injury**  
Speaker: Ozgun Gokce (Medical Faculty, University of Bonn German Center for Neurodegenerative Diseases (DZNE), Germany)

**Q&A**  
10:05 - 10:09

**Spatial epigenome-transcriptome co-profiling of mammalian brain**  
Speaker: Gonçalo Castelo-Branco (Karolinska Institutet, Sweden)

**Q&A**  
10:27 - 10:31

**iTracer as a tool for spatial lineage recording in cerebral organoids**  
Speaker: Barbara Treutlein (ETH Zurich, Switzerland)

**A high-resolution transcriptomic and spatial atlas of cell types in the brain**  
Speaker: Bosiljka Tasic (Allen Institute for Brain Science, United States)

**Q&A**  
11:11 - 11:15

Scientific Symposia (S)  
09:45 - 11:15

**S20 - Beyond Relay: the Thalamus in Cognition and Action**  
Chair: Alessio Delogu (Department of Basic and Clinical Neuroscience, Institute of Psychiatry, Psychology and Neuroscience, King's College London, United Kingdom)  
Chair: Francisco Clasca (School of Medicine, Department of Anatomy & Neuroscience; Universidad Autónoma de Madrid, Spain)  

**Introduction**  
09:45 - 09:47

**The input-output logic of the non-sensory thalamus**  
Speaker: Francisco Clasca (School of Medicine, Department of Anatomy & Neuroscience; Universidad Autónoma de Madrid, Spain)

**Q&A**  
10:05 - 10:09

**Inhibition in the non-sensory thalamus is controlled by the frontal cortex via a specialized pathway**  
Speaker: Nora Hadinger (Hungarian Research Network - Institute of Experimental Medicine, Hungary)

**Q&A**  
10:27 - 10:31

**Thalamocortical bases of adaptive behaviors**  
Speaker: Mathieu Wolff (University of Bordeaux/CNRS, France)

**Q&A**  
10:49 - 10:53

**The role of thalamic input in shaping and updating motor plans**  
Speaker: Yifat Prut (The Hebrew University, Israel)
Scientific programme

Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S21 - Mechanistic facets of resilience and vulnerability toward the diversity of challenges
Chair: François Tronche (CNRS, France)
Chair: Elena Martín-García (Laboratory of Neuropharmacology-Neurophar, Department of Medicine and Life Sciences, Universitat Pompeu Fabra (UPF), Spain)

Introduction
09:45 - 09:47

Neurobiological signatures associated with vulnerability to food addiction in mice and humans.
09:47 - 10:05

Speaker: Elena Martín-García (Laboratory of Neuropharmacology-Neurophar, Department of Medicine and Life Sciences, Universitat Pompeu Fabra (UPF), Spain)

Q&A
10:05 - 10:09

The interrelation of lipid and neurotrophin signalling in resilience
10:09 - 10:27

Speaker: Beat Lutz (Leibniz Institute for Resilience Research, Germany)

Q&A
10:27 - 10:31

Endocannabinoids, stress, and vulnerability to develop trauma-related disorders
10:31 - 10:49

Speaker: Maria Morena (Sapienza University of Rome, CERC Santa Lucia Foundation IRCCS, Italy)

Q&A
10:49 - 10:53

Stress signaling and chromatin remodelling pattern social status and resilience to psychopathologies
10:53 - 11:11

Speaker: François Tronche (CNRS, France)

Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S22 - Generalization of neuronal codes across behaviors, contexts and stimuli
Chair: Sandra Reinert (Sainsbury Wellcome Centre, United Kingdom)
Chair: Mario Martin-Fernandez (INSERM, Neurocentre Magendie, France)

Introduction
09:45 - 09:47

Dynamic encoding of behavioral states in amygdala circuits
09:47 - 10:05

Speaker: Andreas Lüthi (Friedrich Miescher Institute for Biomedical Research, Switzerland)

Q&A
10:05 - 10:09

Population codes across cortex: Generalization and specialization in inhibitory microcircuits
10:09 - 10:27

Speaker: Caroline A. Runyan (University of Pittsburgh, United States)

Q&A
10:27 - 10:31

Prefrontal cortex neuronal mechanisms allowing for general and specific danger representations
10:31 - 10:49

Speaker: Mario Martin-Fernandez (INSERM, Neurocentre Magendie, France)

Q&A
10:49 - 10:53

Neuronal representations of learned rules for visual categorization in mouse prefrontal cortex
10:53 - 11:11

Speaker: Sandra Reinert (Sainsbury Wellcome Centre, United Kingdom)
Scientific Symposia (S)  
09:45 - 11:15  

**S23 - The Multifaceted Nature of Cell Communication in Nervous System Development, from Afar and Up Close**  
Chair: Julien Ferent (INSERM - Institut du Fer à Moulin, France)  
Chair: Silvia Cappello (Department for Physiological Genomics Biomedical Center - BMC LMU Muenchen, Med. Faculty, Germany)  

**Introduction**  
09:45 - 09:47  

*Crosstalk between the CSF and embryonic stem cell niche*  
*Speaker: Ryann Fame (Stanford University, United States)*  
09:47 - 10:05  

*Q&A*  
10:05 - 10:09  

*Pleotropic functions of morphogens in the development of the nervous system*  
*Speaker: Julien Ferent (INSERM - Institut du Fer à Moulin, France)*  
10:09 - 10:27  

*Q&A*  
10:27 - 10:31  

*How the extracellular matrix shapes the developing human cortex.*  
*Speaker: Katie Long (King’s College London, United Kingdom)*  
10:31 - 10:49  

*Q&A*  
10:49 - 10:53  

*Regulation of cortex folding by controlling neuron migration via differential adhesion*  
*Speaker: Klein Ruediger (Max-Planck Institute for Biological Intelligence, Germany)*  
10:53 - 11:11  

*Q&A*  
11:11 - 11:15  

Scientific Symposia (S)  
09:45 - 11:15  

**S24 - Recent advances in intellectual disabilities and neurodevelopmental disorders**  
Chair: Ludovic Tricoire (Sorbonne universite CNRS , IBPS Neuroscience Paris Seine, France)  

**Introduction**  
09:45 - 09:47  

*The role of autophagy in neurodevelopmental disorders*  
*Speaker: Nael Nadif Kasri (Radboud University Medical Centre, Netherlands)*  
09:47 - 10:05  

*Q&A*  
10:05 - 10:09  

*Excessive proteostasis contributes to pathology in Fragile X Syndrome*  
*Speaker: Susana R. Louros (University of Edinburgh, United Kingdom)*  
10:09 - 10:27  

*Q&A*  
10:27 - 10:31  

*Stargazin in the etiology of neurodevelopmental disorders*  
*Speaker: Ângela Inácio (University of Coimbra, CNC-Center for Neuroscience and Cell Biology & IIIUC-Institute for Interdisciplinary Research, Portugal)*  
10:31 - 10:49  

*Q&A*  
10:49 - 10:53  

*Molecular Mechanisms of Synaptic Dysfunction in the Angelman Syndrome*  
*Speaker: Matteo Fossati (INSTITUTE OF NEUROSCIENCE - CNR & HUMANITAS RESEARCH HOSPITAL, Italy)*  
10:53 - 11:11  

*Q&A*  
11:11 - 11:15
Scientific programme

Poster Sessions with authors in attendance
11:30 - 13:00

PSA03 - Poster Authors in Attendance

Special Interest Events (SiE)
12:00 - 13:00

SiE06 - Advocacy for responsible use of animals in neuroscience as long as needed

Event Description
12:00 - 12:00

Speakers
12:00 - 12:00

Special Interest Events (SiE)
12:00 - 12:45

SiE07 - Application of AI and VR to mental illness

Event Description
12:00 - 12:00

Preliminary Programme
12:00 - 12:00

Speakers
12:00 - 12:00

Special Interest Events (SiE)
12:00 - 12:45

SiE08 - Beyond academia: a multiverse of career paths for neuroscientists

Event Description
12:00 - 12:00

Speakers
12:00 - 12:00

Speaker: Marijn Maartens (Netherlands)
Speaker: Tamara Gerbert (Austria)
Speaker: Emily Vereker (Ireland)

Special Interest Events (SiE)
12:00 - 13:00

SiE09 - Science Sustainability Across Borders

Event Description
12:00 - 12:00

Preliminary Programme
12:00 - 12:00

Special Interest Events (SiE)
12:00 - 13:00

SiE010 - ALBA-IBRO EDI Allyship Training Workshop

Event Description
12:00 - 12:00

Special Lecture (SL)
13:30 - 14:15

SL04 - Host Society Special Lecture, Lisa Feldman Barrett (US)

Introduction
13:30 - 13:30

Allostasis as the brain’s most basic function, evidence in adults, and the implications for social development in young children
13:30 - 13:30

Speaker: Lisa Feldman Barrett (Northeastern University and Massachusetts General Hospital, United States)
Special Lecture (SL)
13:30 - 14:15

SL05 - Boehringer Ingelheim / FENS Research Award Lecture

Introduction
13:30 - 13:30

Awardee Presentation
13:30 - 13:30

Speaker: Maria Llorens-Martín (Spanish National Research Council (CSIC), Spain)

Awardee Presentation
13:30 - 13:30

Speaker: Michael Yartsev (Department of Neuroscience and Bioengineering, University of California, Berkeley, United States)

Other
13:30 - 14:00

Industry slot

Poster Sessions
14:00 - 17:30

Poster Session 04 - Section 60

PS04-27PM-001 ASSOCIATION BETWEEN A PREVIOUSLY REMEMBERED CONTEXT AND AN AVERSIVE EXPERIENCE IS ACCOMPANIED BY REPEATED ACTIVATIONS OF THE SAME CONTEXT ENGRAM NEURONS THROUGHOUT THE BRAIN
Speaker: Olga Ivashkina (Russian Federation)

PS04-27PM-002 BEARMIND: A PIPELINE FOR BATCH EXAMINATION & ANALYSIS OF RAW MINISCOPIC NEURAL DATA
Speaker: Vladimir Sotskov (France)

PS04-27PM-003 THE EFFECTS OF ASSOCIATIVE LEARNING ON NEURONAL ACTIVITY AND FUNCTIONAL CONNECTIONS IN THE MOUSE BRAIN RESTING STATE NETWORKS
Speaker: Ksenia Toropova (Russian Federation)

PS04-27PM-004 FAST GRADIENT-FREE ACTIVATION MAXIMIZATION FOR NEURONS IN SPIKING NEURAL NETWORKS
Speaker: Nikita Pospelov (Russian Federation)

PS04-27PM-005 LINKS BETWEEN NOVELTY, C-FOS EXPRESSION AND HIPPOCAMPAL CALCIUM ACTIVITY IN MICE
Speaker: Olga Rogozhnikova (Russian Federation)

PS04-27PM-006 COGNITIVELY SPECIALIZED NEURONS IN SOCIAL TRANSMISSION OF FOOD PREFERENCE IN MICE
Speaker: Viktor Plusnin (Russian Federation)

PS04-27PM-007 SELF-DEGRADATION OF MEMORY IN ALZHEIMER'S DISEASE: EXPERIMENTAL TESTING OF THE HYPOTHESIS AND SEARCH FOR METHODS OF NEUROPROTECTION
Speaker: Konstantin Anokhin (Russian Federation)

PS04-27PM-008 ENGRAM SPECIFIC SYNAPTIC POTENTIATION IS IMPORTANT FOR FEAR MEMORY FORMATION AND EXPRESSION IN VIVO
Speaker: Matteo Saderi (Canada)

PS04-27PM-009 THE ROLE OF LOCAL AND LONG-RANGE MPFC CONNECTIONS IN THE CONSOLIDATION OF MEMORIES
Speaker: Ali Golbabaei (Canada)

PS04-27PM-010 TEMPORAL DYNAMICS OF NEURONAL EXCITABILITY IN THE LATERAL AMYGDALA MEDIATES ALLOCATION TO AN ENGRAM SUPPORTING CONDITIONED FEAR MEMORY

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<td>EXERCISE ACCELERATES PLACE CELL REPRESENTATIONAL DRIFT</td>
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<td>Mitchell de Snoo (Canada)</td>
<td>CRISPR-BASED EPIGENETIC EDITING OF ENGRAM CELLS IN FEAR MEMORIES</td>
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<td>Davide Martino Coda (Switzerland)</td>
<td>WHAT IS LONG-TERM MEMORY? INVESTIGATING THE NEURONAL STRUCTURES AND MOLECULAR MECHANISMS OF MEMORY STORAGE IN ENGRAM CELLS.</td>
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<td>A NEURAL CIRCUIT CONNECTS AVERSIVE MEMORY GENERALIZATION TO DEPRESSION-LIKE BEHAVIORS</td>
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<td>MEMORY ACROSS GENERATIONS: DISSECTING CONTEXTUAL MEMORY ENSEMBLES OF YOUNG AND AGED MICE</td>
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PS04-27PM-042  POTENTIAL ROLE FOR MICRORNA REGULATION IN THE TUNING OF ENGRAM RECRUITMENT DURING FEAR MEMORY CONSOLIDATION
Speaker: Prakruti Nanda (Switzerland)

PS04-27PM-043  SO EXCITED TO SEE YOU! VISUAL OBJECT-IN-PLACE LEARNING INCREASES NEURONAL EXCITABILITY IN LATERAL ENTORHINAL CORTEX ENGRAM CELLS
Speaker: Paul Banks (United Kingdom)

Poster Sessions with authors in attendance
14:00 - 15:30

Poster Session 04 - Section 93
PS04-27PM-454  A NEW TRANSGENIC MOUSE MODEL FOR FUNCTIONAL TRACING OF CIRCULATION VIA ALBUMIN-TAGGED FLUORESCENT PROBES
Speaker: Marta Vittani (Denmark)

PS04-27PM-455  CHRONIC VISUALIZATION OF MICROCIRCULATION IN MICE USING VIRAL VECTORS EXPRESSING FLUORESCENT PROTEIN-FUSED ALBUMIN
Speaker: Xiaowen Wang (Denmark)

PS04-27PM-456  A NEW FAMILY OF MULTICOLOR GENETICALLY ENCODED INDICATORS FOR FAST, SENSITIVE, AND SELECTIVE IN VIVO IMAGING OF NOREPINEPHRINE
Speaker: Zacharoula Kagiampaki-Baimpaki (Switzerland)

PS04-27PM-457  SDARKEN - NEW DEVELOPMENTS OF A GENETICALLY ENCODED SEROTONIN SENSOR
Speaker: Martin Kubitschke (Germany)

PS04-27PM-458  IMPROVED DUAL-COLOR GRAB SENSORS FOR MONITORING DOPAMINERGIC ACTIVITY IN VIVO
Speaker: Yizhou Zhuo (China)

PS04-27PM-459  A SUITE OF NOVEL PROBES AND METHODS FOR MONITORING SIGNALING PATHWAYS
Speaker: Kiryl Piatkevitch (China)

PS04-27PM-460  A NEW GENERATION OF RED SHIFTED GENETICALLY ENCODED CALCIUM INDICATORS WITH MSCARLET3
Speaker: Ryan Fink (Germany)

PS04-27PM-461  NEW GENERATION OF GENETICALLY ENCODED DOPAMINE SENSORS FOR IMAGING BRAIN-WIDE DOPAMINE RELEASE
Speaker: Julie Chouinard (United States)

PS04-27PM-462  BRAIN-WIDE IN VIVO DOPAMINE DYNAMICS REVEALED WITH NEXT GENERATION DLIGHTS
Speaker: Jacob Roshgadol (United States)

PS04-27PM-463  GENETICALLY ENCODED IGLUSNFR2 VARIANTS FOR IMAGING GABA RELEASE AT A SINGLE SYNAPSE LEVEL IN VITRO AND IN VIVO
Speaker: Olga Kopach (United Kingdom)

PS04-27PM-464  OPTICAL IMAGING OF CEREBROSPINAL FLUID VIA AAV-MEDIATED SECRETORY FLUORESCENT PROTEIN
Speaker: Masaki Nagao (Denmark)
PS04-27PM-465 AAV-COMPATIBLE OPTOGENETIC TOOLS FOR ACTIVATING ENDOGENOUS CALCIUM CHANNELS IN VIVO
Speaker: Hyoin Lee (Korea, Republic of)

PS04-27PM-466 ENGINEERING CAPSID-VARIANT AAVS FOR SELECTIVE GENE DELIVERY TO DENTATE GYRUS GRANULE CELLS IN THE HIPPOCAMPUS.
Speaker: Severine Deforges (France)

PS04-27PM-467 A BISTABLE INHIBITORY OPTOGENPCR FOR MULTIPLEXED OPTOGENETIC CONTROL OF NEURAL CIRCUITS
Speaker: Jonas Wietek (Germany)

PS04-27PM-468 IMAGING INTRACELLULAR CHLORIDE CHANGES USING THE FRET-BASED SUPERCLOMELEON SENSOR
Speaker: Lotte Herstel (Netherlands)

PS04-27PM-469 SCREENING AAV DELIVERY ROUTES, CAPSIDS AND PROMOTERS FOR CORTEX-WIDE FUNCTIONAL AND LONG-TERM STABLE ACCESS TO BRAIN FUNCTION IN LARGE-BRAIN SPECIES
Speaker: Fanni Somogyi (Hungary)

PS04-27PM-470 A NOVEL FLUORESCENT SENSOR REVEALS EVOKED CHLORIDE TRANSIENTS IN VIVO
Speaker: Giacomo Pasquini (Italy)

PS04-27PM-471 DEVELOPMENT OF A GENETICALLY-ENCODED SENSOR FOR PROBING ENDOGENOUS NOCICEPTIN OPIOID PEPTIDE RELEASE
Speaker: Xuehan Zhou (Switzerland)

PS04-27PM-472 CELL-SPECIFIC SIMULTANEOUS OPTOGENETIC STIMULATION AND INHIBITION UTILIZING DUAL-COLOR STRIPED ORGANIC LEDS
Speaker: Jens Weber (Germany)

PS04-27PM-473 BRAIN BIOLUMINOLYSIS OF A G PROTEIN-COUPLED RECEPTOR PHOTODRUG
Speaker: Glòria Salort Flaquer (Spain)

PS04-27PM-474 IN VIVO OPTICAL INTERROGATION OF NEURONAL RESPONSES TO GENETIC, CELL TYPE-SPECIFIC SILENCING
Speaker: Sidney Cambridge (Germany)

PS04-27PM-475 OPTOSENS-FMRI OF THE NIGROSTRIATAL PATHWAY
Speaker: Christina Grimm (Switzerland)

PS04-27PM-476 FUNCTIONAL GENE DELIVERY USING A NOVEL BLOOD-BRAIN-BARRIER-CROSSING AAV CAPSID IN RATS
Speaker: Irmak Toksoz (United Kingdom)

PS04-27PM-477 TARGETING NOREPINEPHRINE NEURONS OF THE LOCUS COERULEUS: A COMPARISON OF MODEL SYSTEMS AND STRATEGIES
Speaker: Lena Susann Eschholz (Germany)

PS04-27PM-478 K-BIPOLES: THE NEXT GENERATION OF BIDIRECTIONAL OPTOGENETIC ACTUATORS
Speaker: Niklas Meyer (Germany)

PS04-27PM-479 INLOV: OPTOGENETICS FOR LIGHT-CONTROLLED INSULIN SIGNALING MODULATES NEURONAL PLASTICITY AND CEREBELLAR DRIVEN BEHAVIOR
Speaker: Ida Siveke (Germany)
Poster Session 04

PS04-27PM-120
NEURAL DYNAMICS DURING A VISUAL ATTENTION AND PERCEPTION TASK IN THE SUPERIOR COLLICULUS

Speaker: Florian Schmidt (Austria)

PS04-27PM-121
A THALAMIC ACTION CUE HUB COORDINATES EARLY VISUAL PROCESSING AND PERCEPTION

Speaker: Anton Sumser (Austria)

PS04-27PM-122
EXPLORING VISUAL ADAPTATION IN VIVO: THE EFFECT OF LUMINANCE ON RECEPTIVE FIELD PROPERTIES

Speaker: Divyansh Gupta (Austria)

PS04-27PM-123
DYNAMIC AND STATE-DEPENDENT SWITCHING OF BEHAVIOUR IN RESPONSE TO COMPETING VISUAL STIMULI IN DROSOPHILA

Speaker: Roshan Kumar Satapathy (Austria)

PS04-27PM-124
A LARGE-SCALE FUNCTIONAL APPROACH TO DEFINE RETINAL CIRCUIT (MISS)WIRING

Speaker: Eleonora Quiroli (Austria)

PS04-27PM-125
DEFINING THE BEHAVIORAL REPERTOIRE INSTRUCTED BY THE FLY’S ‘COCKPIT’

Speaker: Saliha Ece Sonmez (Austria)

PS04-27PM-126
THE ROLE OF SEROTONIN IN ESCAPE RESPONSES AND LEARNED ADAPTATION TO THE LOOMING STIMULUS

Speaker: Dafna Ljubotina (Austria)

PS04-27PM-127
DEFINING THE SYNAPSE-SPECIFIC LANDSCAPE OF CELL ADHESION MOLECULES IN THE FLY VISUAL SYSTEM

Speaker: Tomas Masson (Austria)

PS04-27PM-128
THE INFLUENCE OF LOCOMOTION ON VISUAL TUNING OF NEURONS IN THE SUPERFICIAL SUPERIOR COLLICULUS OF MICE

Speaker: Liad Baruchin (United Kingdom)

PS04-27PM-129
LOCOMOTION MODULATES VISUAL ADAPTATION IN THE MOUSE SUPERIOR COLICULUS

Speaker: Maria Florencia Gonzalez Fleitas (United Kingdom)

PS04-27PM-130
CONTRAST-INvariant ORIENTATION SELECTIVITY IN A SYNTHETIC BIOLOGY MODEL OF THE EARLY VISUAL PATHWAY

Speaker: Julian Vogel (Germany)

PS04-27PM-131
STRATEGIC POSITIONING OF VISUAL CORTICAL ORIENTATION COLUMNS.

Speaker: Luis Peters (Germany)

PS04-27PM-132
STATISTICAL ENSEMBLE ANALYSIS: A COMPREHENSIVE INVESTIGATION OF PATTERN EQUIVALENCE IN ORIENTATION PREFERENCE MAPS

Speaker: Michael Sternbach (Germany)

PS04-27PM-133
INSTABILITY OF ORIENTATION CODING IN MOUSE PRIMARY VISUAL CORTEX DURING A VISUAL ODDBALL TASK

Speaker: Jeroen van Daatselaar (Netherlands)
PS04-27PM-134 VISUAL ATTENTION MODULATES SIMPLE-COMPLEX NEURONAL PAIRS’ INTERACTIONS IN V1
Speaker: Zhiyan Zheng (China)

PS04-27PM-135 VISUAL CORTEX INSTRUCTS LEARNING DURING ADAPTIVE DECISION-MAKING
Speaker: Sara Mederos (United Kingdom)

PS04-27PM-136 HIERARCHY OF PREDICTION ERRORS SHAPES CONTEXT-DEPENDENT SENSORY REPRESENTATIONS
Speaker: Matthias Tsai (Switzerland)

PS04-27PM-137 EYE-OPENING WITNESSES AN AROUSAL STATE INFLUENCE SHIFT ON THE DYNAMIC OF SPONTANEOUS AND SENSORY-EVOKED NETWORK ACTIVITY IN V1
Speaker: Manal Salmi (United States)

PS04-27PM-138 TEMPORAL INTEGRATION OF AUDIO-VISUAL STIMULI IN THE MOUSE SUPERIOR COLLICULUS.
Speaker: Gaia Bianchini (United Kingdom)

PS04-27PM-139 DUAL ENCODING OF MOTION CUES IN FELINE PRIMARY VISUAL CORTEX
Speaker: Hamish Meffin (Australia)

PS04-27PM-140 DIVERSE NEURONAL RESPONSES TO VISUAL PRECISION IN CAT CORTICAL AREA 21A: UNRAVELING THE COMPLEXITY OF ORIENTATION PROCESSING
Speaker: Nelson Cortes (Canada)

PS04-27PM-141 BINOCULAR CONFLICT IN MOUSE VISUAL CORTEX
Speaker: Mathis Bassler (Netherlands)

PS04-27PM-142 NEURAL ENCODING OF SENSORY “SURPRISE” IN THE MOUSE CORTEX
Speaker: Diego Benusiglio (Italy)

PS04-27PM-143 INTRINSIC TRAVELING WAVES IN EXTRASTRIATE CORTEX IMPROVE TARGET DETECTION BY INCREASING TARGET-EVOKED AND SUPPRESSING NON-TARGET POPULATION ACTIVITY.
Speaker: Zachary Davis (United States)

PS04-27PM-144 MECHANISMS CONTROLLING REPRESENTATIONAL DRIFT IN MOUSE VISUAL CORTEX
Speaker: Uwe Lewin (Germany)

PS04-27PM-145 PREDICTION ERRORS ELICIT FASTER AND MORE ACCURATE BEHAVIOURAL RESPONSES
Speaker: Reuben Rideaux (Australia)

PS04-27PM-146 OCULAR DOMINANCE COLUMNS IN MOUSE VISUAL CORTEX
Speaker: Pieter Goltstein (Germany)

PS04-27PM-147 SENSORY SURPRISE SIGNALS IN THE VISUAL CORTEX OF THE ANESTHETIZED MOUSE
Speaker: Adriana Nagy-Dabacan (Romania)

PS04-27PM-148 PERCEPTUAL FILLING-IN REFLECTS RESPONSE PROPERTIES OF EARLY VISUAL CORTEX
Speaker: Anna Razafindrahaha (Netherlands)

PS04-27PM-149 WHOLE-BRAIN MRI AND SINGLE-CELL NEURAL RESOURCES UNDERLYING SENSORY-DRIVEN TEMPORAL EXPECTATION IN MICE
Speaker: Tim Adrian Wendlandt (Germany)
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<td>Jason Jung (Australia)</td>
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PS04-27PM-349  PREDIABETES AND TYPE 2 DIABETES AFFECT TAU PHOSPHORYLATION PATTERNS IN MURINE MODELS OF ALZHEIMER´S DISEASE
Speaker: MARIA VARGAS SORIA (Spain)

PS04-27PM-350  STRUCTURAL AND FUNCTIONAL ALTERATIONS IN THE RETINA OF A MODEL OF ALZHEIMER´S DISEASE AND TYPE 2 DIABETES
Speaker: Angel del Marco (Spain)

PS04-27PM-351  TYPE ONE DIABETES MODIFIES TAU PHOSPHORYLATION PATTERNS AND WORSENS COGNITIVE IMPAIRMENT IN THE APP/PS1 MOUSE MODEL OF ALZHEIMER´S DISEASE
Speaker: Miriam Corraliza-Gomez (Spain)

PS04-27PM-352  EARLY ENRICHED ENVIRONMENT EXPOSURE IMPROVES NEURONAL PATHOLOGY AND BEHAVIORAL IMPAIRMENT AFTER A GERMINAL MATRIX-INTRAVENTRICULAR HEMORRHAGE
Speaker: Isabel Atienza-Navarro (Spain)

PS04-27PM-353  PROTECTIVE EFFECT OF MELATONIN ON DIABETIC-INDUCED ALTERATIONS IN THE EXPRESSION OF NMDA RECEPTOR SUBUNITS AND CAMKII MRNA IN THE PREFRONTAL CORTEX
Speaker: Donn Chatrupamai (Thailand)

PS04-27PM-354  EFFECT OF MELATONIN ON THE AUTOPHAGY IN THE PREFRONTAL CORTEX OF STREPTOZOTOCIN-INDUCED TYPE 1 DIABETIC RATS
Speaker: phichamon lerthphitchaphong (Thailand)

PS04-27PM-355  MELATONIN RESCUES THE AGE-INDUCED ALTERATION IN RHYTHMIC CLOCK GENE AND CLOCK-CONTROLLED GENE EXPRESSION IN RAT HIPPOCAMPUS
Speaker: Ratchadaporn Pramong (Thailand)

PS04-27PM-356  A COMPARISON OF THE BRAIN PARAMETERS FROM ALZHEIMER´S AND NON-ALZHEIMER´S DEMENTIA IN THAIS: A PILOT STUDY
Speaker: Pariwat Wisetwongsa (Thailand)

PS04-27PM-357  NEW INSIGHTS INTO THE NEUROPROTECTIVE EFFECTS OF ANTI-DIABETIC DRUGS USING A MOUSE MODEL OF PRION DISEASE
Speaker: Dmytro Shepilov (United Kingdom)

PS04-27PM-358  SGLT2 AND DPP4 INHIBITORS IMPROVE ALZHEIMER´S DISEASE-LIKE PATHOLOGY AND COGNITIVE FUNCTION THROUGH DISTINCT MECHANISMS IN A T2D-AD MOUSE MODEL
Speaker: A Young Sim (Korea, Republic of)

PS04-27PM-359  CONTINUED TREATMENT OF D-PINITOL AMELIORATES COGNITIVE SPATIAL FLEXIBILITY OF ALZHEIMER´S DISEASE 5XFAD TRANSGENIC MICE
Speaker: Dina Medina-Vera (Spain)

PS04-27PM-360  NON-CANONICAL ANTI-INFLAMMATORY EFFECTS OF SITAGLIPTIN, A DRUG FOR TYPE 2 DIABETES, IN MICROGLIA
Speaker: António Francisco Ambrósio (Portugal)

PS04-27PM-361  ANTIOXIDANT EFFECT OF COMBINED ADMINISTRATION OF METFORMIN AND PROPIONATE IN A RAT MODEL OF TYPE 2 DIABETES MELLITUS
Speaker: Yuliia Osadchu (Ukraine)

PS04-27PM-362  EFFECT OF MELATONIN ON BLOOD-BRAIN BARRIER
DISRUPTION IN THE HIPPOCAMPUS OF TYPE 1 DIABETIC RATS
Speaker: Sunantha Yang-en (Thailand)
PS04-27PM-363 METFORMIN ADMINISTRATION MITIGATES EARLY LIFE STRESS-INDUCED DISRUPTIONS IN HIPPOCAMPAL NEUROGENESIS
Speaker: Ekin Baysal (Turkey)
PS04-27PM-365 SUBCHRONIC ADMINISTRATION OF THE ANTIDIABETIC DRUG METFORMIN MITIGATES COGNITIVE IMPAIRMENTS IN A MOUSE MODEL OF TYPE 2 DIABETES MELLITUS
Speaker: Edoardo Pisa (Italy)
PS04-27PM-366 RETINAL AND BEHAVIORAL CHARACTERIZATION OF A STREPTOZOTOCIN-INDUCED DIABETES TYPE 2 MODEL IN THE SEARCH OF EARLY SYMPTOMS OF ALZHEIMER’S DISEASE
Speaker: Georg Ladurner (Austria)
PS04-27PM-367 IS DYSFUNCTIONAL NEURONAL DIFFERENTIATION THE LINK BETWEEN DIET AND NEURODEGENERATION?
Speaker: Imogen Targett (United Kingdom)
PS04-27PM-368 MEMORY-ENHANCING ACTIVITIES OF THE AQUEOUS EXTRACT OF SCLEROCARYA BIRREA, NAUCLEA LATIFOLIA AND PIPER LONGUM MIXTURE ON DIABETES-INDUCED COGNITIVE DYSFUNCTION
Speaker: Jean Philippe Djientcheu Tientcheu (Cameroon)
PS04-27PM-369 CAFFEIC ACID ATTENUATES NEUROINFLAMMATION AND COGNITIVE IMPAIRMENT IN STREPTOZOTOCIN-INDUCED DIABETIC RATS: PIVOTAL ROLE OF THE CHOLINERGIC AND PURINERGIC SIGNALING PATHWAYS
Speaker: Maria Rosa Schetinger (Brazil)
PS04-27PM-370 INVESTIGATING THE THERAPEUTIC POTENTIAL OF METFORMIN IN AMELIORATING TAU PATHOLOGY IN A CELLULAR MODEL OF ALZHEIMER’S DISEASE
Speaker: Srinithya Paruchuri (United Kingdom)
PS04-27PM-371 INSULIN ACTION ON THE PARAMETERS OF GLUTAMATERGIC PAIRED-PULSE PLASTICITY IN CULTURED HIPPOCAMPAL NEURONS UNDER HYPOINSULINEMIA
Speaker: Maria Shypshyna (Ukraine)
PS04-27PM-372 A PRECLINICAL STUDY TO EXPLORE THE GLYCOTOXIC IMPACT OF METHYLGLYOXAL ON BRAIN AND GUT HEALTH: IMPLICATIONS FOR ALZHEIMER’S DISEASE
Publisher: Giulia Abar (Italy)

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PS04-27PM-480 IMPACT OF VISUAL EXPERIENCE MANIPULATION ON NEURONAL CIRCUIT ACTIVITY AND BEHAVIOR IN ZEBRAFISH LARVAE
Speaker: Marica Albanesi (Italy)
PS04-27PM-481 INVESTIGATING THE IMPACT OF OPHN1 ON Olfactory Behaviour and Neuronal Network Dynamics.
Speaker: Antonio di Socio (Italy)
PS04-27PM-482 FEAR-DEPENDENT BRAIN STATE CHANGES IN PERCEPTION AND SENSORY REPRESENTATION IN LARVAE ZEBRAFISH
Speaker: Conrad Lee (Australia)
PS04-27PM-483 VISUAL LOOM FEATURES DRIVE SHIFTS IN BEHAVIORAL
**CHOICES AND INTERNAL STATES IN LARVAL ZEBRAFISH**

**Speaker:** Leandro Scholz (Australia)

**PS04-27PM-484** DISSECTION OF A NEURONAL INTEGRATOR CIRCUIT THROUGH CORRELATED LIGHT AND ELECTRON MICROSCOPY IN LARVAL ZEBRAFISH. PART 2: CORRELATING FUNCTIONAL ANALYSES AND ULTRASTRUCTURE ACROSS DIFFERENT ANIMALS. 

**Speaker:** Gregor Schuhknecht (United States)

**PS04-27PM-485** MOLECULAR, FUNCTIONAL, AND BEHAVIORAL ANALYSIS OF NEUROMODULATORY NETWORKS IN THE ZEBRAFISH TELENCEPHALON

**Speaker:** Lukas Anneser (Switzerland)

**PS04-27PM-486** A POPULATION CODE FOR SPATIAL REPRESENTATION IN THE LARVAL ZEBRAFISH TELENCEPHALON

**Speaker:** Chuyu Yang (Germany)

**PS04-27PM-487** BRAIN-WIDE CIRCUITRY UNDERLYING ALTERED AUDITORY HABITUATION IN ZEBRAFISH MODELS OF AUTISM.

**Speaker:** Maya Wilde (Australia)

**PS04-27PM-488** THE ROLE OF GABAERGIC NEURONS IN EXPERIENCE DEPENDENT ALTERATIONS OF SENSORY REPRESENTATIONS IN ZEBRAFISH FOREBRAIN

**Speaker:** Emiliano Jimenez Marquez (Norway)

**PS04-27PM-489** PROBING NEURAL CIRCUIT MOTIFS IN ZEBRAFISH USING HOLOGRAPHIC OPTOGENETICS

**Speaker:** Rahul Trivedi (Germany)

**PS04-27PM-490** THALAMOCORTICAL-LIKE CIRCUITS TRANSFORM AND INTEGRATE SENSORY INFORMATION IN THE ZEBRAFISH FOREBRAIN.

**Speaker:** Anh-Tuan Trinh (Norway)

**PS04-27PM-491** NEURAL REPRESENTATION OF FOOD PRESENCE - AND ABSENCE - IN LARVAL ZEBRAFISH 

**Speaker:** Lílian de Sardenberg Schmid (Germany)

**PS04-27PM-492** STATE-DEPENDENT VISUAL PROCESSING OF DARK FLASH STIMULI IN THE LARVAL ZEBRAFISH

**Speaker:** Charles Heller (Germany)

**PS04-27PM-493** SEQUENTIAL NEUROGENESIS IN ZEBRAFISH HABENUA GIVES RISE TO DISTINCT FUNCTIONAL MICROCIRCUITS

**Speaker:** Francisca Hinrichsen (Norway)

**PS04-27PM-494** NEURAL SUBSTRATES FOR VISUAL ORIENTATION

**Speaker:** Sabine Renninger (Portugal)

**PS04-27PM-495** INTERINDIVIDUAL VARIABILITY OF NEURONAL CONNECTIVITY AND FUNCTION IN ZEBRAFISH OLFATORY BULB

**Speaker:** Ruth Eneida Montano Crespo (Switzerland)

**PS04-27PM-496** IMMEDIATE EARLY GENE IMAGING IN THE LIZARD ANOLIS CAROLINENSIS.

**Speaker:** Niels Röhrdanz (Germany)

**PS04-27PM-497** COMPARATIVE ANALYSIS OF THE MOLECULAR, SPATIAL, AND FUNCTIONAL DOMAINS OF VERTEBRATE HABENUA

**Speaker:** Yağnur Çiftci (Turkey)

**PS04-27PM-498** SINGLE-CELL VOLUMETRIC TRANSCRIPTOMIC ATLAS OF THE ADULT ZEBRAFISH FOREBRAIN REVEALS TELEOST HOMOLOGUES OF CORTICAL AND SUBCORTICAL STRUCTURES
FROM TERRESTRIAL VERTEBRATES
Speaker: Bjørn André Bredesen-Aa (Norway)

PS04-27PM-499 INVESTIGATING BEHAVIOURAL AND NEURAL ALTERATIONS IN ZEBRAFISH SEIZURE AND EPILEPSY MODELS
Speaker: Duygu Naz Kutlu (Turkey)

PS04-27PM-500 DECODING TRANSCRIPTIONAL REGULATION IN RESPONSE TO SUNLIGHT IN VERTEBRATES: CIRCADIAN CLOCKS AND BEYOND
Speaker: Alessandra Boiti (Germany)

PS04-27PM-501 BEYOND INDIVIDUALS: COMPARING SPONTANEOUS WHOLE-BRAIN DYNAMICS ACROSS ZEBRAFISH LARVAE
Speaker: Mattéo Dommanget-Kott (France)

PS04-27PM-502 EXPLORING GENE-ENVIRONMENT INTERACTION IN STRESS-RESPONSE BEHAVIOUR IN CANINE AND FISH MODELS
Speaker: Eniko Kubinyi (Hungary)

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PS04-27PM-373 ATYPICAL ASTROCYTES IN THE AGING BRAIN: AN UNDERSERVED PHENOTYPE WHERE DOWNREGULATED MEMBRANE PROTEINS DISRUPT GLIAL REGULATED HOMEOSTATIC CAPACITIES
Speaker: Mary Sommer (United States)

PS04-27PM-374 ASTROCYTES IN THE HUMAN PRINCIPAL OLIVARY NUCLEUS- MORPHOLOGICAL CHANGES DURING AGING
Speaker: Dragana Radošević (Serbia)

PS04-27PM-375 MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF CORTICAL PROTOPLASMIC ASTROCYTES DURING EARLY EXPERIMENTAL DEMYELINATION
Speaker: Ilias Roufagalas (Greece)

PS04-27PM-376 ROLE OF THE NEDDYLATION PROCESS IN BRAIN AGEING
Speaker: Veronica Moncho (Spain)

PS04-27PM-377 PRESENCE AND CHARACTERIZATION OF NEO-EPITOPES IN MOUSE BRAIN
Speaker: Clara Romera Niño (Spain)

PS04-27PM-378 THE NOVEL ASTROCYTIC MARKER CETN2 EXPRESSION IN ALZHEIMER’S DISEASE
Speaker: Maria Teresa Dell’Anno (Italy)

PS04-27PM-379 THE PGB1 LOCUS CONTROLS POLYGLUCOSAN AGGREGATION IN AGED MOUSE HIPPOCAMPAL ASTROCYTES WITHOUT IMPACTING COGNITIVE FUNCTION
Speaker: Dow Michael Glikman (Austria)

PS04-27PM-380 ALTERED METABOLISM IN THE AGED CORPUS CALLOSUM COULD BE RELATED TO THE LOSS OF MYELIN AND AXONS
Speaker: Gonzalo Mayorga (Chile)

PS04-27PM-381 PROTEIN AGGREGATES LINK TO MICROGLIAL AGING
Speaker: Tingting Pan (China)

PS04-27PM-382 AGING IMPAIRS MITOCHONDRIAL METABOLISM AND CAUSES ATROPHY OF HUMAN CORTICAL ASTROCYTES
Speaker: Alexander Popov (China)
**PS04-27PM-383**  
**DISSECTING THE ROLE OF AUTOPHAGY TO ELUCIDATE THE DIFFERENTIAL RESPONSE OF OLIGODENDROCYTES AND ASTROCYTES TO HYPOXIC INJURY IN VITRO**  
*Speaker: Sagar Tyagi (India)*

**PS04-27PM-384**  
**MULTIPARAMETRIC ANALYSIS OF METABOLIC AND OXIDATIVE STRESS ON LIPIDS AND PROTEINS IN MICROARRAY PRINTED ASTROCYTIC AND NEURONAL LIPID RAFT MEMBRANES**  
*Speaker: Gabriel Barreda Gómez (Spain)*

**PS04-27PM-385**  
**THE ROLE OF ENDOGENOUS RETROVIRUSES IN BRAIN AGING AND NEUROINFLAMMATION**  
*Speaker: Abdullah ÖZDEMİR (Turkey)*

**PS04-27PM-386**  
**EXPLORING THE POTENTIAL ROLE OF ATYPICAL ASTROCYTES IN THE EARLY STAGES OF ALZHEIMER’S DISEASE IN THE APPNL-gf MOUSE MODEL**  
*Speaker: Panorea Tirja (United States)*

**PS04-27PM-387**  
**EVALUATING THE EFFECT OF ASTROCYTE-DERIVED CHOLESTEROL ON OLIGODENDROGLIAL MATURATION IN AN IN VITRO MODEL OF HYPOXIC BRAIN INJURY**  
*Speaker: Vadanya Shrivastava (India)*

**PS04-27PM-388**  
**DISSECTING THE IMPACT OF PRENATAL INFLAMMATION ON ASTROCYTES AND PENTRAXIN 3**  
*Speaker: Giuliana Fossati (Italy)*

**PS04-27PM-389**  
**ALTERED CELL MEMBRANE GANGLIOSIDE COMPOSITION AFFECTS ENZYME ACTIVITY, EXPRESSION AND SUBMEMBRANE LOCALIZATION OF Na⁺,K⁺-ATPASE IN MOUSE BRAIN**  
*Speaker: Kristina Mlinac Jerković (Croatia)*

**PS04-27PM-390**  
**EXAMINING THE EFFECTS OF GALECTIN-3 ON NEURONS AND GLIA**  
*Speaker: Jun Ong (United Kingdom)*

**PS04-27PM-391**  
**EXPLORING THE IMPACT OF PARTIAL REPROGRAMMING ON ASTROCYTE BIOLOGY AND ITS IMPLICATIONS FOR BRAIN HOMEOSTASIS AND AGING**  
*Speaker: Pablo Rodríguez Cumbreras (Spain)*

**PS04-27PM-392**  
**SORC2 PROTECTS ASTROCYTES FROM AMYLOID BETA (AB) - INDUCED STRESS BY MODULATING P75 NTR SIGNALING**  
*Speaker: Tomasz Obrębski (Poland)*

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**Poster Session 04 - Section 109**

**PS04-27PM-393**  
**BDNF/TRKB SIGNALLING, IN COOPERATION WITH MUSCARINIC SIGNALLING, RETROGRADELY REGULATES PKA PATHWAY TO PHOSPHORYLATE SNAP-25 AND SYNAPSIN-1 AT THE NMJ.**  
*Speaker: Aleksandra Polishchuk (Spain)*

**PS04-27PM-394**  
**PRESYNAPTIC ACTIVITY AND MUSCLE CONTRACTION REGULATE THE CHOLINERGIC PROTEINS INVOLVED IN THE ACHE CYCLE THROUGH THE ACTION OF MUSCARINIC RECEPTORS IN THE SKELETAL MUSCLE**  
*Speaker: Meryem Jami El Hirchi (Spain)*

**PS04-27PM-395**  
**PROTEIN-LIPID BINDING PROPERTIES IMPLICATE PICCOLINO IN SYNAPTIC VESICLE TETHERING AT PHOTORECEPTOR RIBBON SYNPASES**  
*Speaker: Michalina Gadomska (Germany)*
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<td><strong>THE CA(^{2+}) SENSORS OF SYNCHRONOUS AND ASYNCHRONOUS RELEASE AT HIPPOCAMPAL MOSSY FIBER SYNAPSES</strong></td>
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<td><strong>MOLECULAR INSIGHTS IN THE BIOGENESIS AND TRANSPORT OF PRESYNAPTIC TRANSPORT VESICLES</strong></td>
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<td>JIWOO SHIN (Korea, Republic of)</td>
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<td><strong>UPREGULATION OF STATMIN-2 INDUCES MICROTUBULE DEPENDENT SYNAPTIC MODIFICATIONS DURING THE REWIRING OF NEURONAL CONNECTIVITY.</strong></td>
<td>Pablo Martinez San Segundo (Spain)</td>
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<td><strong>SYNAPTIC VESICLE PROTEIN RECYCLING IN COUPLED EXO-ENDOCYTOSIS IN MAMMALIAN PRESYNAPSES.</strong></td>
<td>Vivek Belapurkar (France)</td>
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<td><strong>LOSS OF THE PRESYNAPTIC SCAFFOLD PICCOLO REDUCES CA(^{2+}) SENSITIVITY OF GLUTAMATE RELEASE AND SHORT-TERM PLASTICITY IN SMALL BRAIN SYNAPSES</strong></td>
<td>Anke Boerner (Germany)</td>
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<td><strong>CROSSTALK BETWEEN GLIAL CX43 HEMICHannels AND NEURONAL PANX1 HEMICHannels AND P2X7 RECEPTORS ORCHESTRATES PRESYNAPTIC HOMEOSTATIC PLASTICITY</strong></td>
<td>Nathalia Vitureira (Uruguay)</td>
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Speaker: Sina Zobel (Germany)

PS04-27PM-412 ALTERNATIVE SPLICING OF CA_{2.1} EF-HAND CONTRIBUTES TO THE TIGHTNESS OF CALCIUM INFLUX-NEUROTRANSMITTER RELEASE COUPLING AT MOUSE CEREBELLAR SYNAPSES
Speaker: Kohgaku Eguchi (Japan)

PS04-27PM-413 REVEALING THE NANOSCALE ORGANIZATION OF PRESYNAPTIC ACTIN USING ISOLATED MICROPATTERNED PRESYNAPSES
Speaker: Sofia Tumminia (France)

PS04-27PM-414 MICROTUBULE DEPOLYMERIZATION CONTRIBUTES TO SPONTANEOUS NEUROTRANSMITTER RELEASE
Speaker: Cecilia Velasco Dominguez (Spain)

PS04-27PM-415 NANOSCOPIC DISTRIBUTION OF VAMP2 AND VAMP7, IN STRIATAL CHOLINERGIC VARICOSITIES AND THEIR RESPECTIVE LOCALIZATION WITH YACHT AND VGLUT3 IN SYNAPTIC VESICLES
Speaker: Véronique Bernard (France)

PS04-27PM-416 COPINE-6 IS A CA^{2+} SENSOR FOR ACTIVITY-INDUCED AMPA RECEPTOR EXOCYTOSIS
Speaker: Victor Anggono (Australia)

PS04-27PM-417 DISTINCT NEUROPEPTIDE SECRETION MECHANISMS ACROSS CELL TYPES IN THE MAMMALIAN CNS
Speaker: Enedina Zepcan (Netherlands)

PS04-27PM-418 INHIBITORY SYNAPSES ON SPINAL MOTONEURONS EXPRESS VAMP1 AND VAMP2 AND BOTH ARE REDUCED BY TETANUS TOXIN WHILE SPARING THESE SAME VAMPS IN ADJACENT EXCITATORY SYNAPSES
Speaker: Paula M Calvo (Spain)

PS04-27PM-419 SYNAPSIN ROLE IN PRESYNAPTIC POTENTIATION AT HIPPOCAMPAL MOSSY FIBER BOUTONS
Speaker: Marta Orlando (Germany)

PS04-27PM-420 PRESYNAPTIC CALCIUM DYNAMICS IN CYTOSOL AND ER AND THE INTERPLAY OF ER MEMBRANE LOCATED PUMPS AND CHANNELS
Speaker: Nicole Flores-Pretell (Saudi Arabia)

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PS04-27PM-285 DEVELOPMENT OF IPSC-DERIVED NEURAL PROGENITOR CELLS WITH ENHANCED MIGRATION TO STROKE TISSUE AND INDUCIBLE ABLATION SYSTEMS
Speaker: Beatriz Achón Buil (Switzerland)

PS04-27PM-286 HUMAN IPSC-DERIVED CELL GRAFTS PROMOTE FUNCTIONAL RECOVERY BY MOLECULAR INTERACTION WITH STROKE-INJURED BRAIN
Speaker: Rebecca Weber (Switzerland)

PS04-27PM-287 IMPROVING STEM CELL THERAPY FOR STROKE USING CRYOGEL MICROCARRIERS
Speaker: Nora Hanna Rentsch (Switzerland)

PS04-27PM-288 EXPLORING THE POTENTIAL OF INDUCED NEURAL STEM CELLS
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NEURONS DIFFERENTIALLY MODULATE MOTIVATIONAL AND SOMATIC CONSEQUENCES OF FENTANYL USE
Speaker: Emily Prevost (United States)

THE MECHANISM UNDERLYING ACUPUNCTURE INHIBITION OF ADDICTION BEHAVIORS THROUGH ACTIVATION OF MESOLIMBIC GABA NEURONS
Speaker: Han Byeol Jang (Korea, Republic of)

THE MECHANISM UNDERLYING ACUPUNCTURE INHIBITION OF ADDICTION BEHAVIORS THROUGH ACTIVATION OF MESOLIMBIC GABA NEURONS
Speaker: Han Byeol Jang (Korea, Republic of)

EXPLORING THE IMPACT OF SATB2 ON COCAINE RELAPSE: INSIGHTS FROM A MOUSE MODEL
Speaker: Diogo Monteiro (Austria)

DOPAMINE AND GLUTAMATE RECEPTOR HETEROMERS AS A COMMON MOLECULAR SUBSTRATE FOR SUBSTANCE USE DISORDER AND COMORBID DEPRESSION
Speaker: Marie-Charlotte Allichon (France)

IDENTIFICATION OF NEW INHIBITORS OF DOPAMINE-GLUTAMATE RECEPTOR HETEROMERIZATION TO ALLEVIATE ADDICTIVE- AND DEPRESSIVE-LIKE SYMPTOMS
Speaker: Adèle Vilette (France)

ACTIVATION OF GROUP II METABOTROPIC GLUTAMATE RECEPTORS RESCUES THE VENTRAL HIPPOCAMPUS - VENTRAL TEGMENTAL AREA CIRCUIT FROM AMPHETAMINE SENSITIZATION
Speaker: Katarzyna Rekawek (Austria)

IMPACT OF A HIGHLY POTENT AND LONG-ACTING COCAINE HYDROLASE ON RECOVERY OF DOPAMINERGIC SYSTEM AFTER COCAINE EXPOSURE
Speaker: Fang Zheng (United States)

DIFFERENTIAL PROCESSING OF COCAINE AND SUGAR INFORMATION BY DOPAMINE-SENSITIVE NEURONS IN THE CENTRAL AMYGDALA
Speaker: Łukasz Bijoch (Poland)

INvolvement of Orexin-2 receptor within the dentate gyrus of the hippocampus in the methamphetamine-seeking behavior
Speaker: Ronak Azizbeigi (Iran)

epigenetic mechanisms of information storage in the onset of drug addiction
Speaker: Luna Zea Redondo (Germany)

Selective modulation of the infralimbic cortex activity regulates reinstatement of cocaine-context associations in mice
Speaker: Ana M. Pérez-Cano (Spain)

A single dose of cocaine rewires the 3D genome structure of midbrain dopamine neurons
Speaker: Dominik Szabo (Germany)

Effect of social choice-induced voluntary abstinence on incubation of methamphetamine craving and AMPA receptor expression in nucleus accumbens core
Speaker: claudia marchetti (Italy)

Crosstalk between AQP4-dependent increase of extracellular adenosine and dopamine neurotransmission during cocaine-induced psychiatric behaviors
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**Speaker:** Mitsuhiro Morita (Japan)
**PS04-27PM-209** - DOPAMINE D3R ANTAGONISM FACILITATES THE EXTINCTION OF DRUG-SEEKING BEHAVIOURS IN OPIATE CPA MODEL AND IS ASSOCIATED TO DECREASED IBA1 LEVELS IN THE MEDIAL PREFRONTAL CORTEX

**Speaker:** Aurelio Franco-García (Spain)
**PS04-27PM-210** - MOLECULAR PROFILING OF ARC NEURONAL ENSEMBLES SUPPORTING THE ENCODING OF DRUG-CONTEXT ASSOCIATIONS

**Speaker:** Marine Salery (United States)
**PS04-27PM-211** - DECODING COCAINE-INDUCED PROTEOMIC ADAPTATIONS IN THE MOUSE NUCLEUS ACCUMBENS

**Speaker:** Philipp Mews (United States)

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**PS04-27PM-212** - HUMAN SINGLE NEURONS IN THE MEDIAL TEMPORAL LOBE ENCODE INFERRRED RELATIONAL STRUCTURES

**Speaker:** Simon Ruch (Switzerland)

**PS04-27PM-213** - TEST-RETEST RELIABILITY ANALYSIS OF EEG POWER MEASURES AND THEIR ASSOCIATION WITH L2 VOCABULARY LEARNING IN CHILDREN AND ADULTS

**Speaker:** Anastasios Ziogas (Switzerland)

**PS04-27PM-214** - CAN PHYSICAL ACTIVITY BOOST VOCABULARY LEARNING?

**Speaker:** Vincent Weber (Switzerland)

**PS04-27PM-215** - RAPID FORMATION OF NEW VISUAL CONCEPTS IN HUMAN EARLY VISUAL CORTEX ASSESSED WITH MULTIMODAL MRI

**Speaker:** Svenja Klinkowski (Germany)

**PS04-27PM-216** - IMPROVING PERCEPTUAL LEARNING EFFICIENCY WITH BRIEF MEMORY REACTIVATIONS ENGAGES DISTINCT NEURAL MECHANISMS

**Speaker:** Taly Kondat (Israel)

**PS04-27PM-217** - THE FRONTAL AREAS INVOLVED IN NONSPATIAL VISUAL SELECTIVE ATTENTION AND RETRIEVAL IN THE HUMAN BRAIN

**Speaker:** Kristina Drudik (Canada)

**PS04-27PM-218** - THE LANGUAGE OF SPACE: WHERE IS THIS AND WHERE IS THAT?

**Speaker:** Umberto Quartetti (Italy)

**PS04-27PM-219** - INVESTIGATING STRATEGIES TO ACCOUNT GENDER DIFFERENCES IN MENTAL ROTATION TASKS - AN FMRI STUDY

**Speaker:** Nadia Bersier (Italy)

**PS04-27PM-220** - DIFFERENTIAL EFFECTS OF WORKING MEMORY LOAD DURING MOTOR DECISION-MAKING ON PLANNING AND EXECUTION OF GOAL-DIRECTED POINTING MOVEMENTS

**Speaker:** Melanie Krüger (Germany)

**PS04-27PM-221** - DYNAMICS OF PREFRONTAL CORTEX AND DORSOLATERAL STRIATUM IN THE AUTOMATION OF REFERENCE MEMORY

**Speaker:** Maxime Villet (France)

**PS04-27PM-222** - LEARNING-DEPENDENT FUNCTIONAL INCREASE IN CONNECTIVITY AMONG THE POSTERIOR STRIATUM, LATERAL
GENICULATE NUCLEUS AND VISUAL CORTEX IN THE VISUAL DISCRIMINATION TASK

Speaker: Sai Tanimoto (Japan)

PS04-27PM-223 REACTION TIME VARIABILITY IN A DELAYED MEMORY SACCADE TASK REPLICATED BY A RECURRENT NEURAL NETWORK MODEL

Speaker: Roger Herikstad (Singapore)

PS04-27PM-224 OBSERVER-AGENT KINEMATIC SIMILARITY MODULATES NEURAL ACTIVITY IN REGIONS OF THE ACTION OBSERVATION NETWORK

Speaker: Bianca Schuster (Austria)

PS04-27PM-225 FRONTO-TEMPORAL INTERACTIONS IN ASSOCIATIVE RECALL EXPLORED BY MULTIELECTRODE RECORDINGS

Speaker: Bálint Varga (Hungary)

PS04-27PM-226 EYES ON THE FUTURE: UNVEILING MENTAL SIMULATIONS AS A DELIBERATIVE DECISION-MAKING MECHANISM

Speaker: Karla Padilla (Chile)

PS04-27PM-227 SYMMETRIC SEMANTIC INFORMATION IS REPRESENTED IN ASYMMETRIC AND HETEROGENEOUS PATTERNS ACROSS THE HUMAN BRAIN.

Speaker: Jiaxin Wang (Japan)

PS04-27PM-228 DIFFERENCES IN NEURAL ACTIVATION PATTERNS WITHIN THE ACTION OBSERVATION NETWORK DURING IMITATION OF POINT-LIGHT DISPLAYS AND FULLY VISIBLE MANIPULATIVE ACTIONS

Speaker: SETTIMIO ZICARELLI (Italy)

PS04-27PM-229 EGOCENTRIC NAVIGATION NETWORK PLASTICITY: TRAINING EXTENDS FUNCTIONAL CONNECTIVITY OF V6 TOFRONTAL AREAS OF CONGENITALLY BLIND PEOPLE.

Speaker: Daniel-Robert Chebat (Israel)

PS04-27PM-230 COGNITIVE MAP FORMATION AND VIRTUAL NAVIGATION IN BLIND SUBJECTS: AN FMRI STUDY

Speaker: Maxime Bleau (Canada)

PS04-27PM-231 DISTINCT NEURAL PATTERNS DURING CATEGORIZATION LEARNING REFLECT A SWITCH BETWEEN STRATEGIES

Speaker: Rebekka Heinen (Germany)

PS04-27PM-232 DYNAMIC FADING MEMORY AND EXPECTANCY EFFECTS IN THE MONKEY PRIMARY VISUAL CORTEX

Speaker: Yiling Yang (Germany)

PS04-27PM-233 POSTNATAL STRUCTURAL DEVELOPMENT OF THE MONKEY PERIRHINAL AND PARAHIPPOCAMPAL CORICTES

Speaker: Justine Villard (Switzerland)

PS04-27PM-234 A NEW OPEN-SOURCE NON-VERBAL SEMANTIC MEMORY TEST REVEALS INTRACRANIAL TOPOGRAPHY OF CATEGORY REPRESENTATION

Speaker: Jon Kleen (United States)

PS04-27PM-235 DISTINCT SUBCOMPONENTS IN VISUAL WORKING MEMORY

Speaker: Gayathri Satheesh (United Arab Emirates)

PS04-27PM-236 COMMON BRAIN REGIONS IMPLICATED IN SUPRAMODAL DECISION FORMATION ACROSS VISUAL, AUDITORY, AND MOTOR-INDEPENDENT TASKS

Speaker: Abdoreza Asadpour (United Kingdom)

PS04-27PM-237 THE NEURAL CONSTRUCTION OF THE MOVIES OF OUR MINDS
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**Speaker:** Sorit Achmed Ali (Germany)

**PS04-27PM-238** NEURAL CORRELATES OF AUTOBIOGRAPHICAL MEMORY IN CONGENITALLY BLIND PEOPLE

**Speaker:** Sven Lange (Germany)

**PS04-27PM-239** FRAGMENTATION & MULTITHREADING OF CONSCIOUSNESS IN THE DEFAULT-MODE NETWORK

**Speaker:** Fahd Yazin (United Kingdom)

**PS04-27PM-240** PREDICTIVE LEARNING SHAPES THE REPRESENTATIONAL GEOMETRY OF THE HUMAN BRAIN

**Speaker:** Antonino Greco (Germany)

**PS04-27PM-241** CORTICAL LAYER-SPECIFIC REPETITION SUPPRESSION TO FACES IN THE FUSIFORM FACE AREA

**Speaker:** Dace Apsvalka (United Kingdom)

**Poster Sessions**

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**Poster Session 04 - Section 50**

**PS04-27PM-421** TEMPERATURE-SENSITIVE TRANSIENT RECEPTOR POTENTIAL CHANNELS EXPRESSED IN PERIPHERAL SENSORY NEURONS ARE FUNCTIONALLY MODULATED BY THE TUMOR SUPPRESSOR CANDIDATE 5

**Speaker:** George Oprita (Romania)

**PS04-27PM-422** THE TRANSIENT RECEPTOR POTENTIAL MELASTATIN SUBTYPE 8 (TRPM8) CHANNEL IS INHIBITED BY THE PROSTACYCLIN RECEPTOR IN A GQ/11-DEPENDENT MANNER

**Speaker:** Alexandru Babes (Romania)

**PS04-27PM-423** TRANSIENT RECEPTOR POTENTIAL ANKYRIN TYPE 1 (TRPA1) CHANNEL, A NEW TARGET FOR THE ANTIMALARIAL ARTEMISININ

**Speaker:** Ramona Madalina Babes (Romania)

**PS04-27PM-424** CULTURING POSTNATAL MOUSE NEURONS OF THE DEEP CEREBELLAR NUCLEI TO INVESTIGATE THE FUNCTIONAL EXPRESSION OF TRP ION CHANNELS IN THE CEREBELLUM

**Speaker:** Violeta Maria Caragea (Romania)

**PS04-27PM-425** ANTI-NOCICEPTIVE EFFECTS OF NON-ANTIBIOTIC DERIVATIVES OF DEMECLOCYCLINE AND DOXYCYCLINE AGAINST FORMALIN-INDUCED PAIN STIMULATION

**Speaker:** Elaine Del-Bel (Brazil)

**PS04-27PM-426** COMPARATIVE TRANSCRIPTOME PROFILING OF MULTIPLE HUMAN INDUCED PLURIPOTENT STEM CELL DERIVED SENSORY NEURON POPULATIONS AND FUNCTIONAL VALIDATION OF PAIN TARGETS ON AUTOMATED PATCH CLAMP SYSTEMS

**Speaker:** Alison Obergrussberger (Germany)

**PS04-27PM-427** DELETION OF TRPV1 ATTENUATES P2X3-INCREASED CALCIUM IN DORSAL ROOT GANGLION NEURONS INNERVATING TO THE ISCHEMIC LIMB MUSCLE

**Speaker:** Jianhua Li (United States)

**PS04-27PM-428** CHARACTERIZATION OF MULTI-TARGET LIGANDS COMPRISING OPIOID/NON-OPIOID PHARMACOPHORES FOR THE TREATMENT OF PAIN

**Speaker:** Emile Breault (Canada)

**PS04-27PM-429** DEVELOPMENT OF NTS2-SELECTIVE NON-OPIOID ANALGESICS
USING ARTIFICIAL INTELLIGENCE.

Speaker: Frédérique Lussier (Canada)

PS04-27PM-430 SEX DIFFERENCES IN NOCICEPTOR REGENERATION AFTER BURN INJURY

Speaker: Chiara Nappi (Spain)

PS04-27PM-431 PHENOTYPIC CHARACTERIZATION OF NOCICEPTIN/ORPHANINFQ RECEPTOR KNOCKOUT MICE (NOP(-/-)) IN DIFFERENT IN VIVO MODELS OF MIGRAINE AND EVALUATION OF THE NOP RECEPTOR AS A TREATMENT TARGET

Speaker: Chiara Sturaro (Italy)

PS04-27PM-432 CORNEAL TRPA1 NOCICEPTOR: A REGULATOR OF NEUROGENIC INFLAMMATION IN A MOUSE MODEL OF DRY EYE

Speaker: Tiffany Migeon (France)

PS04-27PM-433 SELECTIVE EXPRESSION OF OPSINS IN NOCICEPTIVE NEURONS IN THE SCIATIC NERVE OF MICE

Speaker: Mary Ardren (Australia)

PS04-27PM-434 THE IN VIVO STUDY OF INFLAMMASOME NOD-LIKE RECEPTOR PROTEIN 3 (NLRP3) AS A STARTING POINT FOR THE DEVELOPMENT OF NEW INNOVATIVE MIGRAINE DRUGS.

Speaker: Michela Argentieri (Italy)

PS04-27PM-435 ROLE OF TRANSIENT RECEPTOR POTENTIAL ANKYRIN 1 IN LIGHT AVERSION OF MICE

Speaker: Minyan Wang (China)

PS04-27PM-436 TRPV1 ENHANCES ENCODING OF SENSORY INFORMATION IN MOUSE PRIMARY SOMATOSENSORY CORTEX

Speaker: Leena Amrutha (Australia)

PS04-27PM-437 DYNAMIC TRPV2 LOCALIZATION BY FOCAL MECHANICAL STIMULATION ENHANCES GROWTH CONE MOTILITY.

Speaker: Koji Shibasaki (Japan)

PS04-27PM-438 STATIN EFFECTS ON RECOMBINANT AND NATIVELY EXPRESSED THERMO-SENSITIVE TRANSIENT RECEPTOR POTENTIAL ION CHANNELS

Speaker: Dan Tudor Domocos (Romania)

PS04-27PM-439 PACAP AT THE CROSSROADS: INTERPLAY AND SYNERGY WITH OTHER NEUROPEPTIDES IN HEADACHE DISORDERS

Speaker: Maxim Tollenaere (Denmark)

PS04-27PM-440 ROLE OF ELKIN1 IN PAIN-SENSING NERVES.

Speaker: Jasmin Klich (Germany)

PS04-27PM-441 DUAL EFFECT OF ANANDAMIDE AND ITS ENDOGENOUS PRECURSOR 20:4-NAPE ON DRG NEURONAL EXCITABILITY AND NOCICEPTION

Speaker: Anirban Bhattacharyya (Czech Republic)

PS04-27PM-442 TRPM8+ NEURONS IN THE MOUSE LATERAL SEPTUM SUPPORT MOTIVATED RESPONSES TO THERMAL DISCOMFORT

Speaker: Lucía Illescas (Spain)

PS04-27PM-443 STRUCTURE AND FUNCTION OF SENSORY NERVE ENDINGS IN THE CORNEA OF ADULT MICE

Speaker: Fernando Aleixandre-Carrera (Spain)

PS04-27PM-444 PIEZO1 CHANNEL MEDIATES INFLAMMATORY PAIN IN MICE

Speaker: Pa-Reum Lee (Korea, Republic of)
PS04-27PM-445 - THE EMERGING ROLE OF D4R IN PREVENTING MORPHINE TOLERANCE THROUGH THE REGULATION OF TRANSCRIPTION FACTOR EXPRESSION IN THE DORSAL HORN
Speaker: Marina Ponce (Spain)

PS04-27PM-446 - THE EXPLORATION OF FIBROMYALGIA: DECODING MOLECULAR COMPLEXITY FOR TARGETED THERAPIES
Speaker: Sveva Bonomi (Italy)

PS04-27PM-447 - THE TYPE OF NEURON WHICH EXPRESS NEUROPATHIC PAIN RELATED-PROTEIN BEGAN IN THE SPINAL DORSAL HORN
Speaker: Tayo Katano (Japan)

PS04-27PM-448 - EFFECTS OF NEWLY SYNTHESIZED ANGIOTENSIN 1-7 ANALOGS ON ACUTE AND INFLAMMATORY PAIN, EXPLORATORY AND ANXIETY-LIKE BEHAVIOR IN MICE
Speaker: Dimo Angelov (Bulgaria)

PS04-27PM-449 - IMPLICATIONS OF NOP RECEPTOR SYSTEM IN SOCIAL IMPAIRMENTS ASSOCIATED WITH MIGRAINE PAIN
Speaker: Akanksha Mudgal (Poland)

PS04-27PM-450 - HUMAN COLD PAIN
Speaker: Michael Fischer (Austria)

PS04-27PM-451 - IMPAIRED MODULATION OF TRIGEMINAL CAUDAL NUCLEUS SOMATOSENSORY RESPONSES BY THE LOCUS COERULEUS IN A MOUSE MODEL OF DIABETES: PARTICIPATION OF GABAERGIC AND GLYCINERGIC NEURONS
Speaker: Alberto Mesa-Lombardo (Spain)

PS04-27PM-452 - FUNCTIONAL INVESTIGATION OF HUMAN TRPA1 CHANNEL POLYMORPHISMS
Speaker: Cosmin Ciotu (Austria)

PS04-27PM-453 - ROLE OF GRIK1 IN ALTERED PAIN SENSITIVITY IN A MOUSE MODEL OF DOWN SYNDROME
Speaker: Sofia Degiorgi (Spain)

Poster Sessions
14:00 - 17:30

Poster Session 04 - Section 163

PS04-27PM-570 - RESPONSE OF NEOCORTICAL DYSPLASIA TO THALAMIC HIGH FREQUENCY STIMULATION
Speaker: Linda Iris Joseph Tomy (France)

PS04-27PM-571 - CONCURRENT TRANSCRANIAL ELECTRICAL STIMULATION AND MAGNETOENCEPHALOGRAPHY TO EXPLORE INSTANT NEUROPHYSIOLOGICAL STIMULATION EFFECTS
Speaker: Annel Koomen (Netherlands)

PS04-27PM-572 - CONTINUOUS THETA-BURST STIMULATION IMPROVES LEARNING/MEMORY DEFICITS AND BEHAVIORAL DISTURBANCES IN THE TRIMETHYLTIN-INDUCED ALZHEIMER’S-LIKE DISEASE MODEL - RELEVANCE FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS?
Speaker: Marina Zaric Kontic (Serbia)

PS04-27PM-573 - EVALUATION OF THE NEUROMODULATORY EFFECTS OF TRANSCRANIAL STATIC MAGNETIC FIELD STIMULATION (TSMS) USING TMS-EVOKED POTENTIALS (TEPS)
Speaker: Sumiya Shibata (Japan)

PS04-27PM-574 - TRIPLE TRANSCRANIAL STATIC MAGNETIC FIELD STIMULATION
SYSTEM CAN SUPPRESS THE NEURAL ACTIVITY IN THE LUMBAR SPINAL CORD

Speaker: Haruki Hoshi (Japan)

PS04-27PM-575
COMPARING STIMULATION AND LESIONING IN A NETWORK MODEL OF ESSENTIAL TREMOR: MECHANISMS AND TREATMENT

Speaker: Nada Yousif (United Kingdom)

PS04-27PM-576
UNDERSTANDING NEUROMODULATION PATHWAYS IN TDCS: BRAINSTEM RECORDING FOLLOWING DC-TNS IN ANESTHETIZED RATS

Speaker: Alireza Majdi (Belgium)

PS04-27PM-577
COMBINING TRANSCRANIAL ULTRASONIC STIMULATION OF THE HUMAN BASAL FOREBRAIN WITH SIMULTANEOUS ELECTROENCEPHALOGRAPHY

Speaker: Maximilian Lueckel (Germany)

PS04-27PM-578
ASSESSING THE ROLE OF TRANSCRANIAL DIRECT CURRENT STIMULATION (TDCS) IN RESCUING STRESS INDUCED WORKING MEMORY (WM) DEFICITS - AN EEG BASED STUDY

Speaker: Sumit Roy (Germany)

PS04-27PM-579
PHASE-LOCKED TRANSCRANIAL INTERSECTIONAL SHORT PULSE (ISP) STIMULATION IN TERMINATING EPILEPTIC SEIZURES

Speaker: Nóra Kata Forgó (Hungary)

PS04-27PM-580
CORTICAL EFFECTS OF MOTOR AND TACTILE IMAGERY ASSESSED WITH TMS-EEG

Speaker: Aigul Nasibullina (Russian Federation)

PS04-27PM-581
THE EFFECTS OF 40HZ ULTRASOUND STIMULATION ON NEURONAL FUNCTION

Speaker: Deniz Tonyali (United Kingdom)

PS04-27PM-582
THE INFLUENCE OF PULSE SHAPE AND CURRENT DIRECTION OF TMS ON TEST-RETEST RELIABILITY, AND VARIABILITY OF SINGLE PULSE TMS PROTOCOLS

Speaker: Desmond Agboada (Germany)

PS04-27PM-583
GRADUAL CHANGES IN TMS-INDUCED MOTOR EXCITABILITY ARE ASSOCIATED WITH EXCITATION-INHIBITION BALANCE DYNAMICS

Speaker: Lisa Haxel (Germany)

PS04-27PM-584
EXPLORING VARIATIONS IN CONTROLLABLE DIRECTIONS AND MAGNITUDES ACROSS MOTOR STATES FROM TMS-EEG RESPONSES

Speaker: Yumi Shikauchi (Japan)

PS04-27PM-585
TRANSCUTANEOUS VAGUS NERVE STIMULATION (TVNS) AS A THERAPEUTIC APPROACH TOWARDS THE FUNCTIONAL DETERIORATION OF THE LOCUS COERULEUS - NORADRENERGIC SYSTEM

Speaker: Kaushik More (Germany)

PS04-27PM-586
STATIC MAGNETIC FIELDS TO TREAT REFRACTORY EPILEPSY IN HUMANS

Speaker: Casto Rivadulla Fernandez (Spain)

PS04-27PM-587
REGIONAL-SPECIFIC EFFECTS OF SUBCHRONIC INTERMITTENT THETA BURST STIMULATION (ITBS) ON EXPRESSION LEVELS OF C-FOS

Speaker: Danica Popović (Serbia)
PS04-27PM-588  REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION INDUCED CHANGES OF N6-METHYLADENOSINE MODIFIED MRNAS
Speaker: Elli-Anna Balta (Germany)

PS04-27PM-589  IMPACT OF TWO-WEEK REPETITIVE MAGNETIC STIMULATION ON MICROGLIA ACTIVITY AND NEURONAL PLASTICITY
Speaker: Paolo d’Errico (Germany)

PS04-27PM-590  FEASIBILITY AND COMPATIBILITY OF COMBINING VIRTUAL REALITY AND TRANSCRANIAL MAGNETIC STIMULATION
Speaker: Franka Arden (Germany)

PS04-27PM-591  TRANSCRANIAL PULSE STIMULATION FOR THE TREATMENT OF PATIENTS WITH ALZHEIMER’S DEMENTIA
Speaker: Dilana Hazer-Rau (Switzerland)

Poster Sessions
14:00 - 17:30

Poster Session 04 - Section 156

PS04-27PM-503  THE ROLE OF AFFERENT HIPPOCAMPAL TO PREFRONTAL CORTEX PROJECTIONS IN A MOUSE MODEL OF ALZHEIMER’S DISEASE
Speaker: Emine Ciftci (Germany)

PS04-27PM-504  DECIPHERING THE ROLE OF LOCUS COERULEUS FOR HIPPOCAMPUS-DEPENDENT LEARNING AND ITS IMPAIRMENT IN A MOUSE MODEL OF ALZHEIMER’S DISEASE
Speaker: Hanna Khomyak (Germany)

PS04-27PM-505  OPTOGENETIC MODULATION OF SPATIAL HIPPOCAMPAL REPRESENTATIONS IN A MOUSE MODEL OF ALZHEIMER’S DISEASE
Speaker: Manuel Mittag (Germany)

PS04-27PM-506  3-PHOTON IN VIVO IMAGING REVEALS BREAKDOWN OF MICROGLIA SURVEILLANCE UPON GLIOMA INVASION IN THE CORPUS CALLOSUM
Speaker: Felix Nebeling (Germany)

PS04-27PM-507  INVESTIGATING A NEW TAU AGGREGATION INHIBITOR “RE01” IN PS19 TRANSGENIC MICE
Speaker: Dilek Mercan (Germany)

PS04-27PM-508  MULTIMODAL SENSORY CUE BASED NOVELTY DETECTION IN CA1
Speaker: Shuvrangshu Guha (Germany)

PS04-27PM-509  THREE-PHOTON IN VIVO IMAGING OF NEURONS AND GLIA IN THE MEDIAL PREFRONTAL CORTEX AT UNPRECEDENTED DEPTH WITH SUB-CELLULAR RESOLUTION
Speaker: Martin Fuhrmann (DZNE, group Neuroimmunology and imaging, Germany)

PS04-27PM-510  2P-STED IMAGING OF THE MICROGLIAL TRIPARTITE SYNAPESE IN VIVO
Speaker: Nala Gockel (Germany)

PS04-27PM-511  MEMORY UPDATE AND HIPPOCAMPAL NETWORK DEFICITS IN EARLY ALZHEIMER’S DISEASE
Speaker: Dejana Mitrovic (Germany)

PS04-27PM-512  EVALUATION OF CA3 PLACE CELL REMAPPING IN THE APP/PS1 MODEL MOUSE OF ALZHEIMER’S DISEASE
Speaker: Eva María Robles Hernandez (Germany)
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**Scientific programme**

**PS04-27PM-528**  
**POSTERIOR PARIETAL CORTEX OSCILLATORY ACTIVITY SHAPES PERSISTENT SPATIAL MEMORY IMPAIRMENTS INDUCED BY SOLUBLE AMYLOID-B OLIGOMERS**  
**Speaker:** Souhail Djebari (Spain)

**PS04-27PM-529**  
**CEREBRAL INOCULATION WITH OLIGOMERIC AMYLOID-BETA(1-42) CAUSES PROGRESSIVE CHANGES IN CELLULAR PROPERTIES IN THE PIRIFORM CORTEX**  
**Speaker:** Christina Strauch (Germany)

**PS04-27PM-530**  
**ALTERATIONS ON SYNAPTIC AND EXCITABILITY PROPERTIES OF BASOLATERAL AMYGDALA NEURONS IN THE APP/PS1 AD MICE**  
**Speaker:** Juliana Gonzalez-Sanmiguel (Chile)

**PS04-27PM-531**  
**IMPAIRED SPATIAL CODING AND WEAK HYPERACTIVITY IN THE MEDIAL ENTORHINAL CORTEX OF AGED APP KNOCK-IN MICE**  
**Speaker:** Gustavo Rodriguez (United States)

**PS04-27PM-532**  
**INVESTIGATING THE NEURAL ENSEMBLES UNDERLYING SUNDOWNING IN AN ALZHEIMER’S DISEASE MOUSE MODEL**  
**Speaker:** Michelle Jin (United States)

**PS04-27PM-533**  
**EFFECTS OF EARLY-HANDELING AND SEX ON COGNITIVE RESILIENCE IN APP/PS1 MICE**  
**Speaker:** Maria Carrigan (Netherlands)

**PS04-27PM-534**  
**CONTRIBUTION OF ANTERODORSAL THALAMIC NEURONS TO ORIENTATION CODING AND THEIR DYSFUNCTION IN A NOVEL VIRUS-BASED TAUOPATHY MOUSE MODEL**  
**Speaker:** Shan Jiang (United Kingdom)

**PS04-27PM-535**  
**EXECUTIVE DYSFUNCTION AND ABNORMAL HIPPOCAMPAL-PREFRONTAL INTRINSIC AND SYNAPTIC EXCITABILITY IN THE 3XTG MOUSE MODEL FOR ALZHEIMER’S DISEASE**  
**Speaker:** Grace Cunliffe (United Kingdom)

**PS04-27PM-536**  
**PREFRONTAL-TDCS RESCUES HIPPOCAMPAL DOPAMINE SIGNALLING, RESULTING IN CELLULAR, FUNCTIONAL AND BEHAVIOURAL IMPROVEMENTS AND AMYLOID-B REDUCTION IN A MOUSE MODEL OF ALZHEIMER’S DISEASE**  
**Speaker:** Maria Luisa De Paolis (Italy)

**PS04-27PM-537**  
**RESTING-STATE FUNCTIONAL CONNECTIVITY ALTERATIONS BETWEEN HIPPOCAMPAL SUBFIELDS AND PREFRONTAL CORTEX IN ALZHEIMER’S DISEASE**  
**Speaker:** Esmin Unaran (Canada)

**PS04-27PM-538**  
**SOCIAL MEMORY AND PREPULSE INHIBITION IN APP/PS1 MICE AND THE EFFECT OF CHEMOGENETIC MANIPULATION OF PARVALBUMIN INTERNEURONS IN THE VENTRAL HIPPOCAMPU**  
**Speaker:** Daniela Černotová (Czech Republic)

**PS04-27PM-539**  
**INTACT SYSTEMS CONSOLIDATION IN PRE-SYMPTOMATIC AD MICE RELIES ON RECRUITMENT OF COMPENSATORY SUBCORTICAL AND CORTICAL REGIONS**  
**Speaker:** Annabella Pignataro (Italy)

**PS04-27PM-540**  
**IMPAIRED MEMORY STORAGE AND RECALL IN A HIPPOCAMPAL CA1 NETWORK IN EARLY ALZHEIMER’S DISEASE**  
**Speaker:** Saana Seppälä (Finland)

**PS04-27PM-541**  
**MEMORY MATTERS: COGNITIVE DECLINE IN ISCHEMIC STROKE AND ALZHEIMER’S DISEASE**  
**Speaker:** Robin Gens (Belgium)
THE PARVALBUMIN-INTERNEURON MEDIATED MODULATION OF A MEMORY ENGRAM IN THE CONTEXT OF ALZHEIMER’S DISEASE  

Speaker: Thije Willems (Netherlands)

A BEHAVIOURAL ASSESSMENT TO CHARACTERIZE DIFFERENT STAGES OF MEMORY IMPAIRMENT IN HUMANIZED APP KNOCK-IN MOUSE MODELS ACROSS VARIOUS AGES  

Speaker: Loukia Katsouri (United Kingdom)

THE MGLU4 POSITIVE ALLOSTERIC MODULATOR FOLIGLURAX DURABLY RESCUES BEHAVIORAL DEFICITS IN THREE MOUSE MODELS OF AUTISM SPECTRUM DISORDER  

Speaker: Mathieu Fonteneau (France)

IMPACT OF PERINATAL EXPOSURE TO MATERNAL WESTERN DIET ON OFFSPRING SOCIOEMOTIONAL BEHAVIOR  

Speaker: Jerome Becker (France)

EARLY CORTICAL NETWORK DEFICITS UNDERLYING ABNORMAL STIMULUS PERCEPTION IN SHANK3B+/- MICE  

Speaker: Elena Montagni (Italy)

MODULATION OF SENSORY DEFICITS IN SHANK3B MICE THROUGH CATHODAL TDCS  

Speaker: Manuel Ambrosone (Italy)

NEURAL ALTERATIONS IN THE NEOCORTEX UNDERLIE TACTILE PERCEPTION CHANGES IN A MOUSE MODEL OF AUTISM  

Speaker: Ourania Semelidou (France)

PREFRONTAL CORTEX ALTERATIONS UNDERLYING ATTENTIONAL MODULATION OF SENSORY INFORMATION IN THE FMR1KO MOUSE MODEL OF AUTISM SPECTRUM DISORDER  

Speaker: Maria Gueidão Costa (France)

ELECTROPHYSIOLOGIC, TRANSCRIPTOMIC AND MORPHOLOGIC PLASTICITY OF SPINAL INHIBITORY NEURONS TO DECIPHER ATYPICAL MECHANOSENSORY PERCEPTION IN AUTISM SPECTRUM DISORDER  

Speaker: Anna Saint-Jean (France)

DYSREGULATION OF VASOPRESSIN RELEASE FROM THE BED NUCLEUS OF STRIA TERMINALIS TO THE LATERAL SEPTUM PROMOTES SOCIAL DEFICITS IN SHANK3B+/- MICE  

Speaker: Maria Helena Bortolozzo Gleich (Spain)

CHARACTERIZATION OF THE EXPRESSION OF DOPAMINERGIC MARKERS IN THE CNTNAP2 KNOCKOUT MOUSE MODEL OF AUTISM  

Speaker: María Prieto (Spain)

HYPOSENSITIVITY TO THERMAL STIMULUS WITH PREFRONTAL CORTICAL IMPLICATION IN TWO ANIMAL MODELS OF AUTISM SPECTRUM DISORDER  

Speaker: Ming-chia Chu (Taiwan)

THERMOSENSORY ATYPIA IN NEWBORNS MUTANT FOR AN AUTISM-RELATED GENE MAGEL2  

Speaker: ugo zayan (France)
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IMPACTS MORPHOLOGICAL AND FUNCTIONAL DEVELOPMENT OF CORTICAL AND THALAMIC SOMATOSENSORY AREAS IN A MOUSE MODEL OF AUTISM SPECTRUM DISORDER

Speaker: Marcin Lipiec (Poland)

PS04-27PM-096 MORPHOLOGICAL AND SYNAPTIC CHANGES IN DOPAMINERGIC NEURONS IN THE AUTISM-RELATED MODEL

Speaker: Jan Bakos (Slovakia)

PS04-27PM-097 SHANK3 DEFICIENCY LEADS TO GABAERGIC ABNORMALITIES AND MORPHOLOGICAL CHANGES IN SOMATOSTATIN-EXPRESSING INTERNEURONS IN OLFACTORY BRAIN REGIONS

Speaker: Denisa Mihalj (Slovakia)

PS04-27PM-098 CHRONIC IN VIVO TWO-PHOTON IMAGING OF CORTICAL NORADRENALINE REVEALS ALTERED SPATIOTEMPORAL RELEASE DYNAMICS DURING MOTOR LEARNING IN A MOUSE-MODEL OF AUTISM

Speaker: Nathaniel Jones (Canada)

PS04-27PM-099 INVESTIGATING THE ROLE OF THE PTCHD1-PTCHD1-AS RISK LOCUS IN AUTISM SPECTRUM DISORDER.

Speaker: Clarrisa Bradley (Canada)

Poster Sessions
14:00 - 17:30

Poster Session 04 - Section 75

PS04-27PM-165 THE MICROAROUSAL BRAIN STATE CAN EMERGE IN THE LOCAL NETWORK OF THE CEREBRAL CORTEX

Speaker: Joana Covelo (Spain)

PS04-27PM-166 CHOLINERGIC HETEROGENEITY IN SYNCHRONOUS AND ASYNCHRONOUS STATES IN A WHOLE BRAIN MODEL

Speaker: Leonardo Dalla Porta (Spain)

PS04-27PM-167 CONTROL OF EPILEPTIFORM DISCHARGES BY ELECTRIC FIELDS: QUANTIFICATION OF FIELDS AND NEURAL EFFECTS

Speaker: Nathalia Cancino Fuentes (Spain)

PS04-27PM-168 NEURAL TIMESCALES HIERARCHY ACROSS THE HUMAN CORTEX CHANGES FROM WAKEFULNESS TO SLEEP

Speaker: Riccardo Cusinato (Switzerland)

PS04-27PM-169 GRAPH MODELS OF BRAIN STATE IN DEEP ANAESTHESIA REVEAL SINK STATE DYNAMICS OF REDUCED SPATIOTEMPORAL COMPLEXITY AND INTEGRATION

Speaker: James Wilsenach (United Kingdom)

PS04-27PM-170 THALAMOCORTICAL SPINDLES OCCUR DURING RAPID EYE MOVEMENT SLEEP IN MOUSE SOMATOSENSORY PATHWAY

Speaker: Nadia Urbain (France)

PS04-27PM-171 DYNAMICS OF EFFECTIVE CONNECTIVITY IN THE HUMAN CORTEX

Speaker: Ellen van Maren (Switzerland)

PS04-27PM-172 VIGILANCE-STATE INSTABILITY PRECEDES STATE-SPECIFIC LFP CHANGES IN ACUTE SEPSIS

Speaker: Susan Leemburg (Czech Republic)

PS04-27PM-173 AN IN SILICO STUDY OF LOCAL AND GLOBAL PROPERTIES IN THE PROPAGATION OF CORTICAL SLOW WAVES

Speaker: Javier Alegre-Cortés (Spain)
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Scientific programme

PS04-27PM-174  CIRCADIAN RHYTHM AND SLEEP IN LILZARDS.
Speaker: Sho Yamaguchi (Japan)

PS04-27PM-175  CHOLINERGIC-DEPENDENT SLOW-WAVE OSCILLATIONS IN THE CLAUSTRO-CORTICAL NETWORKS IN VITRO
Speaker: Ambre Ledoux (France)

PS04-27PM-176  TEMPORAL DYNAMICS OF HEARTBEAT EVOKED POTENTIALS IN COMATOSE PATIENTS IN LONG CONTINUOUS RECORDINGS
Speaker: Florence Aellen (Switzerland)

PS04-27PM-177  BREAKDOWN OF AUDITORY PROCESSING HIERARCHY IN HUMAN SLEEP
Speaker: Sigurd Alnes (Switzerland)

PS04-27PM-178  INVESTIGATING NEURAL MESOSCALE SIGNAL COMPLEXITY AT DIFFERENT STAGES OF CONSCIOUSNESS: HOW TO PREDICT LOCAL FIELD POTENTIAL FROM SPIKING ACTIVITY
Speaker: Giampiero Bardella (Italy)

PS04-27PM-179  ANATOMICALLY HETEROGENEOUS PYRAMIDAL CELLS IN SUPRAGRANULAR LAYERS OF THE DORSAL CORTEX SHOW THE SURFACE-TO-DEEP FIRING FREQUENCY INCREASE DURING NATURAL SLEEP.
Speaker: Boglárka Bozsó (Hungary)

PS04-27PM-180  CIRCADIAN REGULATION IN NON-MAMMALIAN SPECIES - A THIRD-EYE VIEW FROM THE BEARDED DRAGON
Speaker: Emma Morris (Germany)

PS04-27PM-181  EVIDENCE FOR CENTRAL-PATTERN-GENERATOR CIRCUITS DRIVING THE REM-NREM SLEEP CYCLE
Speaker: Lorenz Fenk (Germany)

PS04-27PM-182  VISUAL PROCESSING IN THE SLEEPING BRAIN
Speaker: Aleksandra Novozhilova (Switzerland)

Poster Sessions
14:00 - 17:30

Poster Session 04 - Section 23

PS04-27PM-544  THE INSIDE-OUT OF EMOTION PROCESSING: EVALUATING CHILDREN AND ADULTS' NEURAL CORRELATES FROM A NOVEL FMRI MOVIE-WATCHING PARADIGM
Speaker: Sofia Scatolin (Switzerland)

PS04-27PM-545  REFLECTIONS OF MINDS? EXPLORING BEHAVIORAL AND NEURAL SIMILARITY IN FRIEND DYADS
Speaker: Elena Federici (Switzerland)

PS04-27PM-546  DEVELOPMENTAL DIFFERENCES IN REWARD-LEARNING AND FUNCTIONAL CONNECTIVITY
Speaker: Zsófia Karlócai (Germany)

PS04-27PM-547  COMPUTATIONAL AND NEUROMODULATORY MECHANISMS OF IMPAIRED TRUST LEARNING IN OLDER ADULTS
Speaker: Ronald Sladky (Austria)

PS04-27PM-548  RELATIONSHIP BETWEEN CORTICAL EXCITABILITY AND INHIBITORY CONTROL PERFORMANCE IN ADOLESCENTS WITH ATTENTION-DEFICIT/HYPERACTIVITY DISORDER (ADHD): A PILOT STUDY
Speaker: Jia-Ling Sun (Taiwan)

PS04-27PM-549  PRACTICE-RELATED CHANGES IN PREFRONTAL ACTIVATION

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AND REPRESENTATIONS DURING TASK SWITCHING IN CHILDREN

Speaker: Sina Schwarze (Germany)

PS04-27PM-550 THE ROLE OF THE MEAN DIFFUSIVITY OF THE AMYGDALA IN THE PERCEPTION OF EMOTIONAL FACES IN 8 MONTHS OLD INFANTS

Speaker: Niloofer Hashempour (Finland)

PS04-27PM-551 PRE- AND POSTNATAL MATERNAL DEPRESSIVE SYMPTOMS ASSOCIATE WITH LOCAL CONNECTIVITY OF THE LEFT AMYGDALA IN 5-YEAR-OLDS.

Speaker: Elena Vartiainen (Finland)

PS04-27PM-552 THE ROLE OF THE MEAN DIFFUSIVITY OF THE AMYGDALA IN THE PERCEPTION OF EMOTIONAL FACES IN 8 MONTHS OLD INFANTS

Speaker: Niloofar Hashempour (Finland)

PS04-27PM-553 THE EFFECT OF PUBERTAL DEVELOPMENT ON SPATIAL REASONING

Speaker: Jorge Borrani (Mexico)

PS04-27PM-554 SHARED NEURAL NETWORK INTERACTIONS UNDERLYING VISUAL COGNITION, ATTENTIONAL REORIENTATION, AND EXECUTIVE FUNCTION ACROSS DEVELOPMENTAL STAGES

Speaker: Chayanon Kitkana (Thailand)

PS04-27PM-555 EXPLORING THE INFLUENCE OF MATERNAL PRENATAL DEPRESSIVE SYMPTOMS AND HAIR CORTISOL CONCENTRATION ON INFANT CORPUS CALLOSUM INTEGRITY

Speaker: Elena Vartiainen (Finland)

PS04-27PM-556 EXPLORING THE INFLUENCE OF MATERNAL PRENATAL DEPRESSIVE SYMPTOMS AND HAIR CORTISOL CONCENTRATION ON INFANT CORPUS CALLOSUM INTEGRITY

Speaker: isabella mariani wigley (Finland)

PS04-27PM-557 EXPLORING THE EFFECTS OF INCARCERATION ON DECISION-MAKING PROCESSES: A LONGITUDINAL EEG STUDY ON CURRENT AND FORMER PRISONERS.

Speaker: Victoria Rambaud (Belgium)

PS04-27PM-558 EFFECTS OF PARENTING BEHAVIORS ON CHILDREN'S AND YOUNG ADULTS EMOTION REGULATORY BRAIN STRUCTURE

Speaker: Mirjam Habegger (Switzerland)

PS04-27PM-559 DEVELOPMENTAL AND TEMPORAL DYNAMICS IN COGNITIVE CONTROL ENGAGEMENT DURING EXPLICIT LEARNING

Speaker: Hyeji Lee (United Kingdom)

PS04-27PM-560 IS BIGGER ALWAYS MORE? - INVESTIGATING DEVELOPMENTAL CHANGES IN NON-SYMBOLIC NUMBER COMPARISON

Speaker: Judit Pekar (Germany)

PS04-27PM-561 NEONATAL WHITE MATTER MICROSTRUCTURE PREDICTS ATTENTION DISSOCIATION FROM FEARFUL FACES AT 8 MONTHS.

Speaker: Réka Borbás (Switzerland)

PS04-27PM-562 GESTATIONAL AND POSTNATAL AGE-RELATED CHANGES IN APERIODIC & PERIODIC PARAMETERS FROM NEONATAL AND TODDLER ELECTROENCEPHALOGRAM (EEG).

Speaker: Silja Luotonen (Finland)

PS04-27PM-563 EVOLVING PERSPECTIVES: CHILDREN'S FUNCTIONAL BRAIN CORRELATES AND EMERGING CONNECTIVITY PATTERNS DURING MENTALIZING

Speaker: Elmo Pulli (Finland)

PS04-27PM-564 NEONATAL WHITE MATTER MICROSTRUCTURE PREDICTS ATTENTION DISSOCIATION FROM FEARFUL FACES AT 8 MONTHS.

Speaker: Hilyatushalihah Audah (Finland)

PS04-27PM-565 GESTATIONAL AND POSTNATAL AGE-RELATED CHANGES IN APERIODIC & PERIODIC PARAMETERS FROM NEONATAL AND TODDLER ELECTROENCEPHALOGRAM (EEG).

Speaker: Mirjam Habegger (Switzerland)

PS04-27PM-566 EXPLORING THE EFFECTS OF INCARCERATION ON DECISION-MAKING PROCESSES: A LONGITUDINAL EEG STUDY ON CURRENT AND FORMER PRISONERS.

Speaker: Victoria Rambaud (Belgium)

PS04-27PM-567 EFFECTS OF PARENTING BEHAVIORS ON CHILDREN'S AND YOUNG ADULTS EMOTION REGULATORY BRAIN STRUCTURE

Speaker: Mirjam Habegger (Switzerland)

PS04-27PM-568 DEVELOPMENTAL AND TEMPORAL DYNAMICS IN COGNITIVE CONTROL ENGAGEMENT DURING EXPLICIT LEARNING

Speaker: Hyeji Lee (United Kingdom)

PS04-27PM-569 NARROWBAND FMRI BOLD SIGNAL ENTROPY PREDICTS
**Scientific programme**

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

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**NEONATAL AGE**

**Speaker:** Ilkka Suuronen (Finland)

**PS04-27PM-564**

**CHILDOOD TRAUMA IN THE ADULT BRAIN: THE RELATIONSHIP BETWEEN ADVERSE CHILDHOOD EXPERIENCES, BRAIN STRUCTURE, AND MENTAL HEALTH IN LATE ADULTHOOD**

**Speaker:** Anne Klimesch (Germany)

**PS04-27PM-565**

**FRONTOPOLAR CORTEX IS ASSOCIATED WITH THE DEVELOPMENT OF THE ABILITY TO SELECT COMPLEX RULES: AN FNIRS STUDY**

**Speaker:** Taeko Harada (Japan)

**PS04-27PM-566**

**ASSESSING SIMILARITY IN FUNCTIONAL BRAIN CONNECTIVITY PATTERNS OF PARENT-CHILD DYADS DURING MENTALIZING**

**Speaker:** Dennis Jonathan Saikkonen (Switzerland)

**PS04-27PM-567**

**MATERNAL VERSUS STRANGER'S TOUCH AT 10 MONTHS: AN FNIRS STUDY**

**Speaker:** Camila Fragoso Ribeiro (Brazil)

**PS04-27PM-568**

**DEVELOPMENT AND INTERGENERATIONAL PERSPECTIVES ON CORTICOLIMBIC BRAIN STRUCTURES DURING CHILDHOOD**

**Speaker:** Plamina Dimanova (Switzerland)

**PS04-27PM-569**

**NEUROCOGNITIVE PROFILES OF CHILDHOOD MALTREATMENT SUBTYPES: UNDERSTANDING THE EFFECTS OF CHILDHOOD EMOTIONAL ABUSE ON THE ADULT SOCIAL BRAIN**

**Speaker:** Stephanie Spengler (Germany)

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**Poster Sessions**
14:00 - 17:30

**Poster Session 04 - Section 18**

**PS04-27PM-304**

**STUDY OF THE INTERACTION BETWEEN MICROGLIA AND ENDOTHELIAL CELLS IN AN ALZHEIMER'S DISEASE MOUSE MODEL.**

**Speaker:** Juan Luis López Ogáyar (Spain)

**PS04-27PM-305**

**MICROGLIAL DEPLETION STRATEGIES AS A PROMISING TOOL TO DESIGN POTENTIAL THERAPIES FOR ALZHEIMER'S DISEASE**

**Speaker:** Clara Garcia Mayor (Spain)

**PS04-27PM-306**

**AGED MICROGRIA IN ALZHEIMER'S DISEASE DISPLAY A SENESENCT AND PRO-INFLAMMATORY PROFILE ASSOCIATED WITH MITOCHONDRIAL OXIDATIVE STRESS**

**Speaker:** Vicente Roca Agujetas (Spain)

**PS04-27PM-307**

**ACTIVATION OF NOTCH PATHWAY IN BRAIN ENDOTHELIAL CELLS AMELIORATES VASCULAR ABNORMALITIES IN ALZHEIMER'S DISEASE MOUSE MODELS**

**Speaker:** Silvia Quiñones Cañete (Spain)

**PS04-27PM-308**

**MICROGLIA MITOCHONDRIAL COMPLEX I DEFICIENCY DURING DEVELOPMENT INDUCES GLIAL DYSFUNCTION AND EARLY LETHALITY**

**Speaker:** Nicolás Capelo Carrasco (Spain)

**PS04-27PM-309**

**GNRH AND MIR-200B TREATMENTS BOOST COGNITION IN DOWN SYNDROME**

**Speaker:** María Manfredi-Lozano (France)

**PS04-27PM-310**

**3D ORGANIZATION OF MICROGLIA IN PHYSIOLOGY AND NEURODEGENERATION**

**Speaker:** Mora Romero (Spain)

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PS04-27PM-311  NUCLEOPORIN 153 DEFICIENCY IN ADULT NEURAL STEM CELLS DEFINES A PATHOLOGICAL PROTEIN-NETWORK SIGNATURE AND DEFECTIVE NEUROGENESIS IN A MOUSE MODEL OF ALZHEIMER’S DISEASE
Speaker: Alessia Bertozzi (Italy)

PS04-27PM-312  ROLE OF HDAC4 IN PRE- AND POST-SYNAPTIC PROTEIN SUMOYLATION IMBALANCE IN A MOUSE MODEL OF ALZHEIMER’S DISEASE
Speaker: Claudia Colussi (Italy)

PS04-27PM-313  FUNCTIONAL INTERACTIONS BETWEEN Astrocyte-DERIVED SFRP1 AND IDENTIFIED RISK FACTORS FOR ALZHEIMER’S DISEASE
Speaker: Marcos Martinez (Spain)

PS04-27PM-314  POTENTIAL ROLE OF THE INTESTINAL MICROBIOTA IN ALZHEIMER’S DISEASE PROGRESSION THROUGH SCFA GLIAL MODULATION.
Speaker: Pablo Miaja (Spain)

PS04-27PM-315  IDENTIFICATION OF SEX-SPECIFIC AUTOPHAGY ENHANCERS FOR DEMENTIA
Speaker: Brunella Mongiardi (Italy)

PS04-27PM-316  HOW MANY SHORT-TERM MEMORIES BECOME LONG-TERM? UNVEILING THE ANSWER THROUGH THE STUDY OF SEX DIFFERENCES
Speaker: Diletta Cavezza (Italy)

PS04-27PM-317  PHARMACOLOGICAL STIMULATION OF AUTOPHAGY TO RESCUE PROTEINOPATHY AND COGNITIVE DECLINE IN LYSOSOMAL STORAGE DISORDERS
Speaker: Cristina Somma (Italy)

PS04-27PM-318  THE MICROGLIAL MODULATION OF A MEMORY ENGRAM IN THE CONTEXT OF ALZHEIMER’S DISEASE
Speaker: Niek Renckens (Netherlands)

PS04-27PM-319  A NOVEL PERSPECTIVE: EARLY-LIFE STRESS AT THE ORIGIN OF AD-RELATED MITOCHONDRIAL DYSFUNCTIONS
Speaker: Sanne Roovers (Netherlands)

PS04-27PM-320  STUDY THE ROLE OF MICROGLIA IN ALZHEIMER’S DISEASE WITH HUMAN IPSC-DERIVED MICROGLIA CELLS
Speaker: Coralie Clua Provost (France)

PS04-27PM-321  SHORT-TERM CD8+ T CELLS ABLATION REDUCES MICROGLIOSIS IN THE HIPPOCAMPUS OF OLD APP/PS1 ANIMALS
Speaker: Marco Zattoni (Austria)

PS04-27PM-322  ABLER RANT MICROGLIAL ACTIVATION IN MICE LACKING THE DSRNA EDITING ENZYME ADAR1 IS RESCUED BY REMOVING THE GENE ENCODING PKR
Speaker: Valentina Lacovich Strasil (Czech Republic)

PS04-27PM-323  DECHIRING DEVELOPMENTAL-AGING MECHANISMS IN CELL CULTURE: ABLER RANT ADNP CYTOPLASMIC-NUCLEAR CROSSTALK AND NAP (DAVUNETIDE) PROTECTION
Speaker: Maram Ganaiem (Israel)

PS04-27PM-324  INVESTIGATING THE MOLECULAR MECHANISMS INVOLVED IN EARLY EVENTS OF CELLULAR DYSFUNCTION IN ALZHEIMER’S DISEASE
Speaker: Muhammad Saif (United Kingdom)
PS04-27PM-325  TREATMENT OF NP106-EXPRESSING ADENO-ASSOCIATED VIRUS IN MICROGLIA-MEDIATED AB CLEARANCE AND BEHAVIORAL DEFICITS IN APP/PS1 MICE
_Speaker_: Yu-Ling Gan (Taiwan)

PS04-27PM-326  PM20D1-DERIVED N-ACYL AMINO ACIDS INCREASE MICROGLIA ASSOCIATION WITH AMYLOID PLAQUES AND NEURONAL FITNESS
_Speaker_: Victoria Pozzi-Ruiz (Spain)

PS04-27PM-327  NEURODEGENERATION RISK FACTORS’ INTERPLAY: CHARACTERIZATION OF APOE3 AND APOE4 GENOTYPE UPON CHRONIC INFLAMMATION
_Speaker_: Sëfora Barberã Parada (Spain)

PS04-27PM-328  ROLE OF N6-METHYLADENOSINE (M6A) MODIFICATIONS IN ALZHEIMER’S DISEASE
_Speaker_: Andrea Agüera-Lorente (Spain)

PS04-27PM-329  MICROGLIAL SENESCENCE: UNRAVELING THE LINK TO AGING-RELATED NEURODEGENERATION IN ALZHEIMER’S DISEASE
_Speaker_: Gyun Jee Song (Korea, Republic of)

PS04-27PM-330  EXPLORING NEUROINFLAMMATION AND NEURONAL CA^2+ EXCITABILITY IN AN ALZHEIMER’S DISEASE MOUSE MODEL
_Speaker_: Martina Bedetta (Italy)

PS04-27PM-331  MICROGLIA DISPLAY A BI-PHASIC EFFECT IN AMYLOIDOSIS
_Speaker_: Nora Baligacs (Belgium)

PS04-27PM-332  OPCS-MICROGLIA CROSS-TALK IN ALZHEIMER’S DISEASE: ROLES AND MECHANISMS
_Speaker_: Yu tong Du (China)

PS04-27PM-333  ESTABLISHMENT AND CHARACTERIZATION OF HUMAN APOE, APP AND PS1 KNOCK-IN MICE
_Speaker_: Eunae Kim (Korea, Republic of)

PS04-27PM-335  EXACERBATION OF ALZHEIMER’S NEURODEGENERATION DUE TO AB - NETOSIS CROSS-TALK IS RESCUED BY G6PD PHARMACOLOGICAL INHIBITION IN NEUTROPHILS
_Speaker_: Laura Marchetti (Italy)

PS04-27PM-336  USING HUMAN IPSC-DERIVED MICROGLIA TO STUDY THE FUNCTION OF THE HUMAN SPECIFIC NICOTINIC RECEPTOR SUBUNIT, CHRFAM7A, IN-VITRO AND IN-VIVO
_Speaker_: Michiel Van der Zwan (France)

PS04-27PM-337  PML IS INVOLVED IN MICROGLIA FUNCTIONS IN NEUROINFLAMMATION AND NEURODEGENERATION
_Speaker_: Sirago Spanou (Greece)

PS04-27PM-338  MICROGLIAL METABOLISM AND IMMUNE FUNCTION ARE PIVOTAL FACTORS IN SEXUAL DIMORPHISM IN ALZHEIMER’S DISEASE
_Speaker_: Eoin O’Neill (Ireland)

PS04-27PM-339  IN VITRO AND IN VIVO TARGETING OFamyloid-beta Oligomers through Intrabodies: Towards an Innovative Gene Immunotherapy for Alzheimer’s Disease.
_Speaker_: Laura Coppola (Italy)

PS04-27PM-340  MONOAMINE SIGNALING ALTERATIONS TRIGGER NEUROINFLAMMATION AND ALZHEIMER’S DISEASE-LIKE HIPPOCAMPAL DEFICITS
Speaker: Livia La Barbera (Italy)

PS04-27PM-341  NERVE GROWTH FACTOR INFLUENCES MICROGLIAL ACTIVITY VIA TRKA

Speaker: Elea Coulomb (Italy)

PS04-27PM-342  TARGETING CONNEXIN HEMICHANNELES AND THE INFLAMMASOME RESPONSE IN AN ACUTE MOUSE MODEL OF ALZHEIMER’S DISEASE

Speaker: Aimee Mills (New Zealand)

PS04-27PM-343  HUMAN MICROGLIA CELLS IN ALZHEIMER DISEASE DERIVED BRAIN ORGANOIDS. CAN IT BE A GOOD MODEL?

Speaker: Eva Cano (Spain)

PS04-27PM-344  EXPLORING SYNERGISTIC MIRNA THERAPY FOR ALZHEIMER’S: AAV-MEDIATED DELIVERY OF MIR-124 AND MIR-132

Speaker: Oliver Polzer (Netherlands)

PS04-27PM-345  SPECIFIC TARGETING MICROGLIA AND OLIGODENDROCYTE BY THREE DIFFERENT VIRUS LIBRARIES

Speaker: Lei Jin (China)

PS04-27PM-346  ADAR THERAPEUTIC TO TACKLE NEURODEGENERATIVE DISORDERS

Speaker: Matteo Bertoli (Italy)

PS04-27PM-347  PRECISION GENE THERAPY FOR ALZHEIMER’S DISEASE: ENHANCING AMYLOID-β CLEARANCE AT THE BRAIN ENDOTHELIUM WITH SUPER-SELECTIVE NANO CARRIERS

Speaker: Cátia Lopes (Spain)

PS04-27PM-348  ANALYSIS OF NR4A2-RELATED MIRNAS IN ALZHEIMER’S DISEASE BIOLOGICAL SAMPLES

Poster Sessions
14:00 - 17:30

Poster Session 04 - Section 112

Speaker: Nikki Kolsters (Netherlands)

PS04-27PM-242  EXPLORING THE MATURATION OF THE GABA SHIFT AS A DIVERGING MECHANISM IN SCN1A-RELATED EPILEPSY USING PATIENT IPSC-DERIVED NEURONS.

Speaker: Emma Dyke (Netherlands)

PS04-27PM-243  EXPLORING THE ROLE OF THE PRIMARY CILIUM IN HOMEOSTATIC PLASTICITY IN HIPSC-DERIVED NEURONAL NETWORKS

Speaker: Marie Le Bihan (Netherlands)

PS04-27PM-244  UNRAVELING MTOROPATHIES: MTOR HYPERACTIVATION INDUCES MUTATION-SPECIFIC FUNCTIONAL PHENOTYPES IN HUMAN NEURONAL NETWORKS

Speaker: Denise Duineveld (Netherlands)

PS04-27PM-245  ALTERED AUTOPHAGY IN KANSL1 HAPLOINSUFFICIENT IPSC-DERIVED ASTROCYTES

Speaker: Sofia Puvogel (Netherlands)

PS04-27PM-246  INTEGRATING NETWORK ACTIVITY WITH TRANSCRIPTOMIC PROFILING IN HIPSCS-DERIVED NEURONAL NETWORKS TO UNDERSTAND THE Molecular DRIVERS OF FUNCTIONAL HETEROGENEITY IN THE CONTEXT OF NEURODEVELOPMENTAL DISORDERS

Speaker: Sofia Puvogel (Netherlands)
PS04-27PM-247  CACNA1A HAPLOINSUFFICIENCY LEADS TO REDUCED SYNAPTIC FUNCTION AND INCREASED INTRINSIC EXCITABILITY
Speaker: Marina Hommersom (Netherlands)

PS04-27PM-248  MODELLING KOOLEN-DE VRIES SYNDROME IN NEURAL ORGANOIDs
Speaker: Brooke Latour (Netherlands)

PS04-27PM-249  ALTERED DENDRITIC EXCITABILITY AND CELL MATURATION OF CA3 PYRAMIDAL NEURONS DURING DEVELOPMENT IN THE SCN2AA263V GENETIC EPILEPSY MODEL
Speaker: Michela Barboni (Germany)

PS04-27PM-250  ADULT CORTICAL AND HIPPOCAMPAL NETWORK DYNAMICS IN P.A236V SCN2A MOUSE MODEL OF DEVELOPMENTAL AND EPILEPTIC ENCEPHALOPATHY
Speaker: Yana Reva (Germany)

PS04-27PM-251  UNRAVELING EPILEPTOGENESIS MECHANISMS VIA SCRNA-SEQ IN SCN2A*A263V MOUSE MODEL
Speaker: Xian Xin (Denmark)

PS04-27PM-252  NEONATAL CA3 HYPEREXCITABILITY DRIVES HIPPOCAMPAL EPILEPTOGENESIS IN SCN2A EPILEPTIC ENCEPHALOPATHY
Speaker: Daniil Kirianov (Germany)

PS04-27PM-253  DISSECTING UBE3A-DEPENDENT REGULATION OF SYNAPSE DEVELOPMENT
Speaker: Martina Biagioni (Italy)

PS04-27PM-254  MECHANISMS OF SYNAPTIC DYSFUNCTION IN THE ANGELMAN SYNDROME
Speaker: Federica Baronchelli (Italy)

PS04-27PM-255  DISSECTING SEIZURE VULNERABILITY IN SCHINZEL-GIEDION SYNDROME
Speaker: Linda Bossini (Italy)

PS04-27PM-256  EXPLORING THE PHENOTYPIC IMPACT OF CONSTITUTIVE OR LATE RESTORATION OF Na\textsubscript{v}1.1 IN GABAERGIC NEURONS IN A REVERSIBLE MOUSE MODEL OF DRAVET SYNDROME
Speaker: Martina Mainardi (Italy)

PS04-27PM-257  BIALLELIC MUTATIONS IN TOP3B CAUSE A BLOOM SYNDROME-LIKE DISORDER
Speaker: Xiaowei Lei (China)

PS04-27PM-258  MICROCIRCUIT FAILURE IN STXBP1ENCEPHALOPATHY LEADS TO HYPEREXCITABILITY
Speaker: Altair Brito dos Santos (Denmark)

PS04-27PM-259  RESCUING THE PHENOTYPE OF STXBP1 ENCEPHALOPATHY: THERAPEUTIC POTENTIAL OF POSITIVE ALLOSTERIC MODULATORS TARGETING GLUTAMATE RECEPTORS
Speaker: Carlos Gomez Martinez (Denmark)

PS04-27PM-260  EXPLORING PATIENT-SPECIFIC MECHANISMS IN SYNGAP1-RELATED PATHOLOGY TO DEVELOP TARGETED THERAPEUTIC STRATEGIES
Speaker: Bernadette Basilico (Italy)

PS04-27PM-261  CHARACTERIZATION OF A NOVEL MISSENSE MUTATION IN THE A2 SUBUNIT OF THE NEURONAL NICOTINIC ACETYLCHOLINE RECEPTOR LINKED TO SLEEP-RELATED GENERALIZED SEIZURES WITH COGNITIVE DEFICIT
Speaker: Chiara Villa (Italy)
PS04-27PM-262 UNRAVELLING THE ROLE OF PROTOCADHERIN-19 (PCDH19) IN GENE EXPRESSION REGULATION
Speaker: Sara Mazzoleni (Italy)

PS04-27PM-263 UNDERSTANDING CAV2.1 DYSFUNCTION IN NEUROLOGICAL DISORDERS: INSIGHTS FROM NOVEL CRISPR/CAS9 MOUSE MODEL AND IPSC-DERIVED NEURONS
Speaker: Fanny Jaudon (Italy)

PS04-27PM-264 UBE3A-INDUCED UBIQUITINATION CHANGES IN THE BRAIN REVEAL THE MOLECULAR COMPLEXITY OF ANGELMAN SYNDROME
Speaker: Nagore Elu Arantzamendi (United Kingdom)

PS04-27PM-265 THE EFFECT OF THE AUTISM-ASSOCIATED A749G CACNA1D (CAV1.3) MUTATION ON NEURONAL MORPHOLOGY
Speaker: Yuliia Nikonishyna (Austria)

PS04-27PM-266 UNRAVELING THE MOLECULAR MECHANISMS OF EPILEPSY IN PEDIATRIC PATIENTS WITH TUBEROUS SCLEROSIS COMPLEX (TSC)
Speaker: Frederik Nørby Friis Sørensen (Denmark)

PS04-27PM-267 DE NOVO MISSENSE MUTATION IN CERS6 IDENTIFIED IN A PATIENT WITH SUBCORTICAL HETEROTOPIA
Speaker: Kaviya Chinnappa (France)

PS04-27PM-268 TEMPORAL REGULATION OF VOLTAGE-GATED SODIUM CHANNELS BY miRNAs DURING HIPPOCAMPAL DEVELOPMENT: INSIGHTS FROM ARGONAUTE SEQUENCING
Speaker: Petra Bencurova (Ireland)

PS04-27PM-269 CLINICAL FEATURES OF SYT1-ASSOCIATED NEURODEVELOPMENTAL DISORDER CORRELATE WITH FUNCTIONAL DEFECTS IN EVOKED NEUROTRANSMITTER RELEASE
Speaker: Lauren Bleakley (Australia)

PS04-27PM-270 FUNCTIONAL CHARACTERIZATION OF DPYSL5 GENE VARIANTS INVOLVED IN NEURODEVELOPMENTAL DISORDERS WITH BRAIN MALFORMATIONS
Speaker: Florence Desprez (France)

PS04-27PM-271 THE ROLE OF THE X-LINKED CYCLIN DEPENDENT KINASE LIKE 5 (CDKL5) GENE IN EXTRACELLULAR VESICLE-MEDIATED CELL-TO-CELL COMMUNICATION.
Speaker: Antonia Gurgone (Italy)

PS04-27PM-272 CDKL5: A NOVEL REGULATOR OF THE POST-SYNAPTIC COMPLEX AT THE INHIBITORY SYNAPSE
Speaker: Serena Valastro (Italy)

PS04-27PM-273 DE NOVO VARIANTS IN GABRA4 ARE ASSOCIATED WITH A NEUROLOGICAL PHENOTYPIC SPECTRUM INCLUDING DEVELOPMENTAL DELAY, BEHAVIORAL ABNORMALITIES AND EPILEPSY
Speaker: Margot Ernst (Austria)

PS04-27PM-274 NEW INSIGHTS FROM MODELLING NEURONS IN PRRRT2 PATIENTS
Speaker: Martina Servetti (Italy)

PS04-27PM-275 TIME IS OF THE ESSENCE: EXPLORING EXCITATION/INHIBITION IMBALANCE DRIVING DISTINCT FUNCTIONAL NETWORK PHENOTYPES IN ASD
Speaker: Nicky Scheefhals (Netherlands)
PS04-27PM-276 A PATHOGENIC PORE VARIANT IN KV7.2 POTASSIUM CHANNELS CAUSES A UNIQUE INACTIVATION PROCESS WHEN EXPRESSED IN VITRO
Speaker: Ingride Luzio Gaspar (Italy)

PS04-27PM-277 DETERMINING THE ROLE OF ENHANCED PERINEURONAL NET DEPOSITION IN SEIZURE SUSCEPTIBILITY IN ANGELMAN SYNDROME MODEL MICE
Speaker: Abd Alrahman Elaksher (United States)

PS04-27PM-278 ENHANCED INHIBITION IN HIPPOCAMPAL PYRAMIDAL NEURONS IN A GAIN-OF-FUNCTION GABRB3 MOUSE MODEL OF EPILEPSY
Speaker: Chaseley McKenzie (Australia)

PS04-27PM-279 UNDERSTANDING THE SYNAPTIC BASIS OF DYSTONIA PATHOGENESIS TRIGGERED BY RIMBP1 MUTATIONS
Speaker: Chiara Olmeo (Germany)

PS04-27PM-280 DE NOVO VARIANTS IN SP9 CAUSE A NOVEL FORM OF INTERNEURONOPATHY CHARACTERIZED BY INTELLIGENCE DISABILITY, AUTISM SPECTRUM DISORDER, AND EPILEPSY WITH VARIABLE EXPRESSIVITY
Speaker: Gaelle Friocourt (France)

PS04-27PM-281 CYFIP2 ARG87CYS MUTATION: UNRAVELING ITS ROLE IN EARLY INFANTILE EPILEPTIC ENCEPHALOPATHY
Speaker: Elona NDOJ (Italy)

PS04-27PM-282 TMEM151A, A NEW CAUSATIVE GENE IN PAROXYSMAL KINESEGIC DYSKINESIA
Speaker: Lisastella Morinelli (Italy)

PS04-27PM-283 EXPLORING THE FUNCTION OF THE SYNAPTIC ADAPTOR PROTEIN P140CAP IN HUMAN EXCITATORY NEURONS DERIVED FROM IPSCS
Speaker: Mario De Gregorio (Italy)

PS04-27PM-284 USING A NEURAL NETWORK MODEL TO UNDERSTAND KCNA6 P.LYS376VA VARIANT INDUCED LOSS OF FUNCTION IN CHILDHOOD EPILEPSY
Speaker: Lordstrong Akano (Austria)

Poster Sessions
14:00 - 17:30
Poster Session 04 - Section 32
PS04-27PM-044 BEYOND MATERNAL BOUNDARIES: EXPLORING OFFSPRING EXCITABILITY IN RESPONSE TO MATERNAL CHRONIC STRESS AND MIRTAZAPINE
Speaker: Alžbeta Idunková (Slovakia)

PS04-27PM-045 MIRTAZAPINE TREATMENT OF MATERNAL DEPRESSION - POSITIVE EFFECT ON THE OFFSPRING DEVELOPMENT?
Speaker: Katarína Ondáčová (Slovakia)

PS04-27PM-046 THE IMPACT OF SHANK3 POSTSYNAPTIC PROTEIN DEFICIENCY ON NEURONAL SYNAPTIC ACTIVITY IN THE STRIATUM OF AN AUTISM-RELATED MOUSE MODEL
Speaker: Bohumila Jurkovičová Tarabová (Slovakia)

PS04-27PM-047 AN IN SILICO POPULATION OF COMPARTMENTAL MODELS OF NEURONS FROM PRIMARY HIPPOCAMPAL CULTURES
Speaker: Matus Tomko (Slovakia)
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<td>PARSING THE STRIATAL MOLECULAR ADAPTATIONS IN GLUTAMATE AND DOPAMINE SYSTEMS IN A PRECLINICAL MODEL OF DEPRESSION</td>
<td>Marion Violain (France)</td>
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<td>PS04-27PM-049</td>
<td>THE ASSOCIATION OF EMOTION DYSREGULATION IN THE OCCURRENCE OF DEPRESSION AND SUICIDAL BEHAVIORS IN A SUB-SAHARAN SAMPLE OF UNIVERSITY STUDENTS.</td>
<td>Bernice Nderitu (Kenya)</td>
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<td>PS04-27PM-050</td>
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<td>Lluis Miguel-Rio (Spain)</td>
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<td>INVESTIGATING CENTRAL BDNF EXPRESSION IN A ANOREXIA NERVOSA-LIKE MOUSE MODEL: IMPLICATIONS FOR DIAGNOSIS AND PROGNOSIS</td>
<td>Jingxian Cao (France)</td>
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<td>EFFECT OF RNA M⁴A METHYLTRANSFERASE ACTIVATION ON ANXIETY- AND DEPRESSION-RELATED BEHAVIOURS, MONOAMINE NEUROCHEMISTRY AND STRIATAL GENE EXPRESSION IN THE RAT</td>
<td>Jaanus Harro (Estonia)</td>
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<td>Nur Damla Korkmaz (Turkey)</td>
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<td>CELL-TYPE SPECIFIC TARGETING OF JNK INHIBITOR IN BRAIN USING SYSTEMIC AAVS ELICITS DIFFERENTIAL EFFECTS ON AFFECTIVE BEHAVIOURS IN MICE</td>
<td>Anniina Jokela (Finland)</td>
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<td>PS04-27PM-056</td>
<td>ROLE OF THE IMMUNE-NEUROENDOCRINE INTERPLAY DURING AFFECTIVE EPISODES AND EUTHYMIC IN BIPOLAR PATIENTS: SEARCHING A RELIABLE BIOLOGICAL SIGNATURE OF THE DISEASE</td>
<td>Alessandra Berry (Italy)</td>
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<td>SEX-SPECIFIC EFFECT OF PERINATAL MIRTAZAPINE ADMINISTRATION AND PREGESTATIONAL STRESS ON THE EXCITABILITY OF MESOLIMBIC DOPAMINE NEURONS IN RATS</td>
<td>Ruslan Paliokha (Slovakia)</td>
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<td>Anna Portugalov (Israel)</td>
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<td>PS04-27PM-059</td>
<td>AN ATOPIC DERMATITIS MOUSE MODEL REVEALS POTENTIAL UTILITY FOR ATOPIC DERMATITIS-GENERATED COMORBID DEPRESSION BRAIN CIRCUITRY STUDIES.</td>
<td>Ian McConnell (United States)</td>
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<td>Lidia Cabeza Alvarez (France)</td>
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**OF MIRTAZAPINE TREATMENT**

**Speaker:** Stanislava Bukatova (Slovakia)

**PS04-27PM-062**  
**THE BIOLOGICAL EFFECTS OF "GREEN-THERAPY" ON MDD**  
**Speaker:** Gianna Pavarino (Italy)

**PS04-27PM-063**  
**GENETIC AND FLUOXETINE-DEPENDENT REGULATION OF CORTICAL DLX5/6 EXPRESSION REGULATE ADULT ANXIETY AND DEPRESSIVE-LIKE BEHAVIOURS**  
**Speaker:** Rym AOUCI (France)

**PS04-27PM-064**  
**MACHINE LEARNING FOR INDIVIDUAL MULTIVARIATE FINGERPRINTS AS PREDICTORS OF MENTAL WELL-BEING IN YOUNG ADULTS**  
**Speaker:** Andrea Caporali (Italy)

**PS04-27PM-065**  
**BEHAVIORAL, MOLECULAR AND CELLULAR EFFECTS OF LOW-DOSE CBD ADMINISTRATION IN A CHRONIC STRESS-INDUCED MAJOR DEPRESSION MOUSE MODEL.**  
**Speaker:** Sara Borràs Pernas (Spain)

**PS04-27PM-066**  
**THE TASTE OF SICKNESS: INDUCTION OF NEGATIVE TREATMENT EXPECTATION IN AN ANIMAL MODEL OF ENDOTOXIN-INDUCED SICKNESS**  
**Speaker:** Harald Engler (Germany)

**PS04-27PM-067**  
**IMPACT OF OLFATORY FOOD INGREDIENTS ON EMOTIONAL AND DIGESTIVE STATE**  
**Speaker:** Clémence Viguier (France)

**PS04-27PM-068**  
**EFFECTS OF KETOGENIC DIET AND BDNF DEFICIENCY IN MOUSE CHRONIC RESTRAIN STRESS MODEL.**  
**Speaker:** Ilya Smolensky (Switzerland)

**Poster Sessions**

**Poster Session 04 - Section 99**

**PS04-27PM-100**  
**ANALYZING ERROR PATTERNS IN PRIMATE VISUOSPATIAL WORKING MEMORY**  
**Speaker:** Rafaella Minea Riszt (Hungary)

**PS04-27PM-101**  
**INVESTIGATION AND MODULATION OF CORTICAL EXCITABILITY IN AWAKE RHESUS MACAQUES WITH NON-INVASIVE TRANSCRANIAL MAGNETIC STIMULATION AND ELECTROENCEPHALOGRAPHY**  
**Speaker:** Anna Padanyi (Hungary)

**PS04-27PM-102**  
**EFFECTS OF EXENATIDE ON SCHEDULED FEEDING BEHAVIOUR IN NON-HUMAN PRIMATES**  
**Speaker:** Judit Zubánné Inkeller (Hungary)

**PS04-27PM-103**  
**DOES INTERFERENCE INHIBITION IN MEMORY ENTAIL INHIBITORY NEUROTRANSMISSION?**  
**Speaker:** Balázs Knakker (Hungary)

**PS04-27PM-104**  
**ATTENTIONAL SET-SHIFTING TASK: AN APPROACH TO ASSESS PREFRONTAL ACTIVITY PATTERNS DURING BEHAVIORAL FLEXIBILITY IN AGED MICE.**  
**Speaker:** Francisca García (Chile)

**PS04-27PM-105**  
**OVERTRAINING ENHANCES BEHAVIOURAL FLEXIBILITY ON A SERIAL REVERSAL LEARNING TASK.**  
**Speaker:** Silvia Maggi (United Kingdom)
| PS04-27PM-106 | A NOVEL TOUCH-PANEL BASED SERIAL REVERSAL LEARNING TASK FOR ASSESSING COGNITIVE FLEXIBILITY IN MICE |
| Speaker: Hiroyuki Okuno (Japan) |
| PS04-27PM-107 | EFFECT OF LESIONS OF THE CEREBELLAR NUCLEUS FASTIGII ON ATTENTION AND FRONTAL CORTICAL ACTIVITY IN RATS |
| Speaker: Franziska Decker (Germany) |
| PS04-27PM-108 | Olfactory discrimination and reversal learning in the Neurexin1 (+/-) mouse model of Autism Spectrum Disorder |
| Speaker: Richard Brown (Canada) |
| PS04-27PM-109 | ASSESSMENT OF ADVERSE DRUG EFFECTS ON COGNITIVE FUNCTION IN Cynomolgus Macaques using an Automated Touchscreen-based CANTAB Device |
| Speaker: Sareer Ahmad (Germany) |
| PS04-27PM-110 | INTEGRATED ELECTROPHYSIOLOGY AND FIBER PHOTOMETRY EXAMINATION OF THE PREFRONTAL CORTEX IN THE MOUSE MODEL OF IMPLICIT LEARNING |
| Speaker: Éva Gulyás (Hungary) |
| PS04-27PM-111 | BEHAVIOURAL CHARACTERIZATION OF THE CAG-HACE2 TRANSGENIC MICE |
| Speaker: Ilenia Pinna (Italy) |
| PS04-27PM-112 | IDENTIFICATION OF METABOLIC PATHWAYS ACTIVATED BY DIFFERENT LEARNING STRATEGIES IN MICE |
| Speaker: Alexandre Carrea (Italy) |
| PS04-27PM-113 | THE GLYT1 INHIBITOR BITOPERTIN IMPROVES CHOICE ACCURACY DURING A TOUCHSCREEN-BASED WORKING MEMORY TASK IN MICE |
| Speaker: Bastiaan van der Veen (Germany) |
| PS04-27PM-114 | AGE-RELATED CHANGES IN NEURAL VARIABILITY IN A DECISION-MAKING TASK |
| Speaker: Fenying Zang (Netherlands) |
| PS04-27PM-115 | CAN A MIRROR REFLECT PSYCHOSIS? A REVERSE TRANSLATIONAL APPROACH TO QUANTIFY ANOMALOUS SUBJECTIVE EXPERIENCE |
| Speaker: Daria Chestnykh (Germany) |
| PS04-27PM-116 | ESTABLISHMENT OF AN AGED MOUSE MODEL OF UNILATERAL SPATIAL NEGLECT AND THE IMPACT OF AGING ON SYMPTOM SEVERITY |
| Speaker: Daisuke Ishii (Japan) |
| PS04-27PM-117 | acting from the heart: behavior and cognitive function of rats with heart failure with preserved ejection fraction and empagliflozin effects |
| Speaker: Débora Inês Vilas Boas Costa (Portugal) |
| PS04-27PM-118 | PHENOTYPING OF AGING SPRague-Dawley RATS: EXPLORING THE RELATIONSHIP BETWEEN SOCIAL BEHAVIOR AND LOCOMOTOR ACTIVITY |
| Speaker: Jovana Arandelović (Serbia) |
| PS04-27PM-119 | ENGAGING THE DELAYED NON-MATCH TO POSITION TASK IN RATS AS A TEST OF INFLAMMATORY INDUCED COGNITIVE IMPAIRMENT AND MODEL TO ASSESS PRO-COGNITIVE ANT-INFLAMMATORY AGENTS |
| Speaker: Matthew McAuslan (Ireland) |
**Scientific Symposia (S)**  
15:45 - 17:15

**S25 - Neuromodulatory correlates of continual learning: bridging biological and artificial neural networks**

*Chair:* Srikanth Ramaswamy (Newcastle University, United Kingdom)  
*Chair:* Anita Disney (Duke University School of Medicine, United States)

**Introduction**  
15:45 - 15:47

**Multi-agent reinforcement learning in the brain**  
15:47 - 16:05

*Speaker:* Naoshige Uchida (Harvard University, United States)

**Q&A**  
16:05 - 16:09

**Dopamine and causal learning**  
16:09 - 16:27

*Speaker:* Vijay Mohan K Namboodiri (University of California San Francisco, United States)

**Q&A**  
16:27 - 16:31

**Neuromodulatory regulation of song learning through social vocal communication in zebra finches**  
16:31 - 16:49

*Speaker:* Yoko Yazaki-Sugiyama (Okinawa Institute of Science and Technology (OIST) Graduate University, Japan)

**Q&A**  
16:49 - 16:53

**Neuromodulation-aware cortical neural networks for continual learning**  
16:53 - 17:11

*Speaker:* Srikanth Ramaswamy (Newcastle University, United Kingdom)

**Q&A**  
17:11 - 17:15

**Scientific Symposia (S)**  
15:45 - 17:15

**S26 - What is memory? An ensemble of molecular, cellular and computational answers**

*Chair:* Johannes Gräff (EPFL, Switzerland)  
*Chair:* Sylvie Lesuis (University of Amsterdam, Netherlands)

**Introduction**  
15:45 - 15:47

**Engram allocation to a spatial memory: Insights into memory formation**  
15:47 - 16:05

*Speaker:* Sylvie Lesuis (University of Amsterdam, Netherlands)

**Q&A**  
16:05 - 16:09

**Neural circuits for encoding and comparing aversive memories**  
16:09 - 16:27

*Speaker:* Stéphanie Trouche (INSERM, France)

**Q&A**  
16:27 - 16:31

**DNA-templated memory aids**  
16:31 - 16:49

*Speaker:* Johannes Gräff (EPFL, Switzerland)

**Q&A**  
16:49 - 16:53

**A memory by thousand rules: Automated searches reveal variety & degeneracy at the heart of learning**  
16:53 - 17:11

*Speaker:* Tim Vogels (IST Austria, Austria)

**Q&A**  
17:11 - 17:15
Scientific Symposia (S)
15:45 - 17:15

S27 - The dynamic interplay of mechanical and molecular processes in brain folding
Chair: Roberto Toro (Institut Pasteur, Université Paris Cité, France)
Chair: Katja Heuer (Institut Pasteur, Université Paris Cité, France)

Introduction
15:45 - 15:47

Epigenetic and cellular regulation of cortex expansion and folding
15:47 - 16:05

Speaker: Victor Borrell (CSIC, Spain)

Q&A
16:05 - 16:09

An Evo-Devo perspective on cortical interneuron migration in the forebrain
16:09 - 16:27

Speaker: Laurent, H, P Nguyen (University of Liège, Belgium)

Q&A
16:27 - 16:31

The mechanical regulation of brain development
16:31 - 16:49

Speaker: Kristian Franze (Max-Planck-Zentrum für Physik und Medizin, Germany)

Q&A
16:49 - 16:53

Physical and phylogenetic determinants of brain organisation: The Tufted capuchin anomaly
16:53 - 17:11

Speaker: Katja Heuer (Institut Pasteur, Université Paris Cité, France)

Q&A
17:11 - 17:15

Scientific Symposia (S)
15:45 - 17:15

S28 - Beyond space: hippocampal representations of novelty and reward
Chair: Attila Losonczy (Losonczy Lab, Zuckerman Institute, Columbia University, United States)
Chair: Charlotte N. Boccara (Systems Neuroscience & Sleep, Centre for Molecular Medicine Norway, University of Oslo, Norway)

Introduction
15:45 - 15:47

Learning compressed representations in the hippocampus during new experience.
15:47 - 16:05

Speaker: James B. Priestley (École polytechnique fédérale de Lausanne (EPFL), Switzerland)

Q&A
16:05 - 16:09

Signatures of familiar and novel contextual information in hippocampal CA1.
16:09 - 16:27

Speaker: Stefanie Poll (University Hospital Bonn, Germany)

Q&A
16:27 - 16:31

Dynamic updating of the hippocampal reward representation.
16:31 - 16:49

Speaker: Marielena Sosa (Stanford University, United States)

Q&A
16:49 - 16:53

A hippocampus-accumbens code guides goal-directed appetitive behaviour.
16:53 - 17:11

Speaker: Oliver Barnstedt (Leibniz Institute for Neurobiology, Germany)

Q&A
17:11 - 17:15
Scientific Symposia (S)
15:45 - 17:15

S29 - Protein Turnover in Health and Disease
Chair: Susana R. Louros (University of Edinburgh, United Kingdom)
Chair: Chao Sun (Danish Research Institute of Translational Neuroscience (DANDRITE), Aarhus University, Denmark)

Introduction 15:45 - 15:47

Synapse diversity and the dynamic synaptome architecture 15:47 - 16:05
Speaker: Seth G. N. Grant (University of Edinburgh, United Kingdom)

Q&A 16:05 - 16:09

Maintaining pre-synaptic proteostasis 16:09 - 16:27
Speaker: Marijn Kuijpers (Radboud University, Netherlands)

Q&A 16:27 - 16:31

Synaptic Machinery for Protein Synthesis and Degradation 16:31 - 16:49
Speaker: Chao Sun (Danish Research Institute of Translational Neuroscience (DANDRITE), Aarhus University, Denmark)

Q&A 16:49 - 16:53

Cell-type Specific Protein Homeostasis in a Huntington’s Disease Mouse Model 16:53 - 17:11
Speaker: Beatriz Alvarez-Castelao (Complutense University of Madrid, Spain)

Q&A 17:11 - 17:15

Scientific Symposia (S)
15:45 - 17:15

S30 - Genomic imprinting: an epigenetic phenomena critical to mammalian brain function
Chair: Anthony Isles (Neuroscience and Mental Health Innovation Institute, Cardiff University, United Kingdom)
Chair: Sacri Ferrón (Universitat de València, Spain)

Introduction 15:45 - 15:47

Genomic imprinting and neurogenesis 15:47 - 16:05
Speaker: Sacri Ferrón (Universitat de València, Spain)

Q&A 16:05 - 16:09

Imprinted genes and the control and evolution of parental care 16:09 - 16:27
Speaker: Anthony Isles (Neuroscience and Mental Health Innovation Institute, Cardiff University, United Kingdom)

Q&A 16:27 - 16:31

A genomic imprinting ancestry study in modern humans and the adaptation to sleep-wake cycles 16:31 - 16:49
Speaker: Valter Tucci (Istituto italiano di tecnologia, Italy)

Q&A 16:49 - 16:53

Imprinted genes shape hormonal imprinting in early life: a role in Prader-Willi syndrome 16:53 - 17:11
Speaker: Francoise Muscatelli (Institut de Neurobiologie de la Méditerranée, France)

Q&A 17:11 - 17:15
Scientific Symposia (S)
15:45 - 17:15  G

S31 - Mechanisms of astrocyte dysfunction in neurodegeneration
Chair: Laura Civiero (University of Padova, Italy)
Chair: Won-Suk Chung (Department of Biological Sciences, Korea Advanced Institute of Science and Technology, Korea, Republic of)

**Introduction**

15:45 - 15:47

Humanized models to understand astrocyte’s contribution to Alzheimer’s disease

15:47 - 16:05

**Speaker:** Amaia Arranz (Achucarro Basque Center for Neuroscience, Spain)

**Q&A**

16:05 - 16:09

Mechanisms of glial pathology in Parkinson’s disease

16:09 - 16:27

**Speaker:** Laura Civiero (University of Padova, Italy)

**Q&A**

16:27 - 16:31

Astrocyte-neuron interaction in neurological disorders

16:31 - 16:49

**Speaker:** Nicola Allen (Salk Institute for Biological Studies, United States)

**Q&A**

16:49 - 16:53

Phagocytic roles of astrocytes in Neurodegenerative diseases

16:53 - 17:11

**Speaker:** Won-Suk Chung (Department of Biological Sciences, Korea Advanced Institute of Science and Technology, Korea, Republic of)

**Q&A**

17:11 - 17:15

Scientific Symposia (S)
15:45 - 17:15  H

S32 - Cerebrospinal fluid dynamics in health and disease
Chair: Nathalie Jurisch-Yaksi (Norwegian University of Science and Technology, Norway)

**Introduction**

15:45 - 15:47

Choroid plexus-targeted gene therapy to treat neurologic disease

15:47 - 16:05

**Speaker:** Maria K. Lehtinen (Boston Children’s Hospital, United States)

**Q&A**

16:05 - 16:09

The origin and functions of cerebrospinal fluid macrophages in health and disease

16:09 - 16:27

**Speaker:** Kiavash Movahedi (Vrije Universiteit Brussel, Belgium)

**Q&A**

16:27 - 16:31

The glymphatic system and cerebrospinal fluid efflux pathways

16:31 - 16:49

**Speaker:** Iben Lundgaard (Lund University, Sweden)

**Q&A**

16:49 - 16:53

Function of motile cilia-driven cerebrospinal fluid flow in the nervous system

16:53 - 17:11

**Speaker:** Nathalie Jurisch-Yaksi (Norwegian University of Science and Technology, Norway)

**Q&A**

17:11 - 17:15

Award Ceremony (AC)
17:15 - 17:30  A

AC02 - ALBA-Roche Research Prize for Excellence in Neuroscience Ceremony
**Plenary Lecture (PL)**
17:30 - 18:30

**PL05 - Presidential Plenary Lecture, Kia Nobre (US)**

**Attention in memory: focusing in the past to face the future**

**Speaker:** Kia Nobre (Yale University, United States)

**Networking Events (NE)**
18:45 - 20:15

**NE11 - Enhancing Global Partnerships in Brain Research**

**Event Description**

**Preliminary Programme**

**Speakers**

**Speaker:** George Barreto (Ireland)
**Speaker:** John Ngai (United States)
**Speaker:** Mahmoud Maina (United Kingdom)
**Speaker:** Barry Everitt (United Kingdom)
**Speaker:** Ulrike Bußhoff (Germany)

**Networking Events (NE)**
18:45 - 20:15

**NE12 - How to organise and respond to pressure to phase out animal experimentation in neuroscience**

**Event Description**

**Preliminary Programme**

**Speakers**

**Speaker:** Roger Adan (Netherlands)
**Speaker:** Suzanne Dickson (Sweden)
**Speaker:** Roman Stilling (Germany)
**Speaker:** Sabine Hölter-Koch (Germany)
**Speaker:** Nuno Gonçalves (Portugal)

**Networking Events (NE)**
18:45 - 20:15

**NE13 - Science in a Space Environment: Neuroscience for human Space Exploration**

**Event Description**

**Speakers**

**Speaker:** Pierre Denise (France)
**Speaker:** Elisa Ferre (United Kingdom)
**Speaker:** Christian Liemersdorf (Germany)
**Speaker:** Peter zu Eulenburg (Germany)

**Networking Events (NE)**
18:45 - 20:15

**NE14 - Annual General Meeting of the German Neuroscience Society (GNS)**

**Event Description**

**Networking Events (NE)**
18:45 - 20:15

**NE15 - Funny Brains - Science Communication via Comedy**

**Event Description**
Friday, 28 June 2024

**Plenary Lecture (PL)**
08:30 - 09:30

**PL06 - Plenary Lecture, Maurizio Corbetta (IT)**

**Architecture and function of spontaneous brain activity: health and pathology**
08:30 - 08:30

**Speaker:** Maurizio Corbetta (Chair and Professor of Neurology, Italy)

**Poster Sessions**
09:30 - 13:00

**Poster Session 05 - Section 4**

**PS05-28AM-084**
**DIRECTIONALLY TUNED SIGNALS IN MOUSE SUBICULAR COMPLEX AND VISUAL CORTEX DURING PASSIVE ROTATION USING HIGH-DENSITY PROBES**

**Speaker:** Marin Dauguet (France)

**PS05-28AM-085**
**IMAGING POPULATION ACTIVITY OF HEAD DIRECTION NEURONS IN THE PRESUBICULUM OF FREELY BEHAVING MICE**

**Speaker:** Elja Belhadef (France)

**PS05-28AM-086**
**SUBPOPULATION OF THALAMIC NEURONS POSSESES DISTINCT ANATOMICAL CONNECTIVITIES AND ELECTROPHYSIOLOGICAL PROPERTIES IN THE ANTERIOR THALAMIC NUCLEUS.**

**Speaker:** Dongkyun Lim (France)

**PS05-28AM-087**
**MESOSCALE DYNAMICS OF CELL RESOLUTION CORTICAL ACTIVITY ACROSS BRAIN AREAS IN NATURALISTIC GOAL-DIRECTED BEHAVIOR**

**Speaker:** Tal Chamilevsky (Israel)

**PS05-28AM-088**
**FUNCTIONAL ORGANIZATION OF THE COGNITIVE MAP FOR NATURALISTIC REACHING BEHAVIOR IN THE MOTOR CORTEX**

**Speaker:** Noa Shmueli (Israel)

**PS05-28AM-089**
**MULTIMODAL SIGNAL COMPLEXITY IN SOMATOSENSORY CORTEX REVEALED THROUGH HIGH-DIMENSIONAL REPRESENTATIONS**

**Speaker:** Kaan Kesgin (Sweden)

**PS05-28AM-090**
**CONCEPTUALIZING NETWORKS OF NEURONS AS VECTOR FIELDS TO ANALYZE THEIR HIGH-DIMENSIONAL BEHAVIOR**

**Speaker:** Szilvia Szeier (Sweden)

**PS05-28AM-091**
**MUTUAL INFORMATION MANIFOLD INFERENCE FOR STUDYING NEURAL POPULATION DYNAMICS**

**Speaker:** Michael Kareithi (United Kingdom)

**PS05-28AM-092**
**DECIPHERING THE DYNAMICS OF MEMORY ENCODING AND RECALL IN THE HIPPOCAMPUS USING TWO-PHOTON CALCIUM IMAGING AND INFORMATION THEORY**

**Speaker:** Jess Yu (United Kingdom)

**PS05-28AM-093**
**DECODING ACTIVITY PATTERNS ACROSS PYRAMIDAL CELL DENDRITIC TREES DURING SPONTANEOUS BEHAVIORS USING 3D ARBOREAL SCANNING**

**Speaker:** Antoine Valera (France)

**PS05-28AM-094**
**PRESERVED NEURAL DYNAMICS ACROSS ANIMALS PERFORMING SIMILAR BEHAVIOUR**

**Speaker:** Mostafa Safaie (United Kingdom)
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<td>Aitor Morales-Gregorio (Germany)</td>
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<td>PS05-28AM-096</td>
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<td>Alina-Cristina Marin (United Kingdom)</td>
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<td>Davide Warm (Germany)</td>
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<td>Adam Gosztolai (Austria)</td>
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<td>Ali Haydaroglu (United Kingdom)</td>
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<td>Alipasha Vaziri (United States)</td>
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<td>PS05-28AM-101</td>
<td>MAPPING SYNAPTIC INTEGRATION WITH SIMULTANEOUS GLUTAMATE AND CALCIUM IMAGING</td>
<td>Federico Rossi (Italy)</td>
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<td>BRAIN-WIDE HIERARCHICAL AND MULTIPLEXED ENCODING OF BEHAVIORS IN C. ELEGANS</td>
<td>Charles Fieseler (Austria)</td>
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<td>SPATIAL AND TOPOLOGICAL VARIABILITY OF DENDRITIC MORPHOLOGY IN THE MOTION DETECTION PATHWAY OF DROSOPHILA MELANOGASTER</td>
<td>Nikolas Drummond (Germany)</td>
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PS05-28AM-543  NESTIN+ CELLS INTERACTION WITH MICROGLIA AND ASTROCYTES IN PERIVASCULAR SPACE OF MALIGNANT PERIPHERAL NERVE SHEATH TUMORS  
Speaker: Susana Bulnes (Spain)

PS05-28AM-544  ID2-ETS2 AXIS REGULATES THE TRANSCRIPTIONAL ACQUISITION OF PRO-TUMORAL MICROGLIA PHENOTYPE IN GLIOMA.  
Speaker: Guillermo Vázquez Cabrera (Sweden)

PS05-28AM-545  INVESTIGATING THE RATE OF RETURN TO WORK IN LOW-GRADE GLIOMA PATIENTS  
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PS05-28AM-546  SMART GLIA: INVESTIGATING THE NERVOUS SYSTEM PLASTICITY UPON CANCER.  
Speaker: Assunta Virtuoso (Italy)

PS05-28AM-547  THE MORPHOLOGY OF GLIOBLASTOMA STEM CELLS IMPACTS TUMOUR PROGRESSION.  
Speaker: Carlotta Barelli (Italy)

PS05-28AM-548  WNT PATHWAY’S KEY REGULATORS DISPLAY DIFFERENT PROMOTER METHYLATION FREQUENCIES IN GLIOMAS  
Speaker: Nives Pećina-Šlaus (Croatia)

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Speaker: Paula Martínez Remedios (Spain)

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Speaker: Irene Durá Esteve (Belgium)

PS05-28AM-554  INVOLVEMENT OF GLIOBLASTOMA-DERIVED EXTRACELLULAR VESICLES IN PROMOTING ENDOTHELIAL CELL REMODELLING: IMPLICATIONS FOR GLIOBLASTOMA TUMOUR PROGRESSION  
Speaker: Swagatama Mukherjee (India)

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Speaker: Giulia Scanavino (Italy)

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Speaker: Somya Vats (France)

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Speaker: MARIA ANGELES MARQUES (Spain)

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Speaker: Julie COUPEY (France)

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Speaker: Vasiliki Gkini (Finland)

PS05-28AM-562
MODULATING VOLTAGE-GATED SODIUM CHANNELS TO ENHANCE DIFFERENTIATION AND SENSITIZE GLIOBLASTOMA CELLS TO CHEMOTHERAPY

Speaker: Francesca Giammello (Italy)

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MUTUAL INFLUENCE: EXPLORING THE DYNAMICS OF MALIGNANT BRAIN TUMORS AND SLEEP QUALITY

Speaker: Lucija Grbić (Croatia)

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Speaker: Peter Racay (Slovakia)

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Speaker: Roland Kälin (Austria)

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Speaker: Stefano Pioli (Italy)

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Speaker: Ana Lucia Rebelo (Portugal)

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Speaker: Viola Donati (Italy)

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Speaker: Winston Mann (Germany)

PS05-28AM-485
ROBUSTNESS AND EVOLVABILITY IN A MODEL OF A PATTERN RECOGNITION NETWORK

Speaker: Daesung Cho (Germany)

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PROJECTIONS REGULATE DEVELOPMENTAL SONG LEARNING IN ZEBRA FINCHES  
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*Speaker*: Lela Chitadze (Georgia)  
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*Speaker*: Juan Sebastian Calderon Garcia (Austria)  
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*Speaker*: Carmen Guerrero-Márquez (France)

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*Speaker*: Gianluigi Giannini (Germany)  
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*Speaker*: Sara Wesolek (Germany)  
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*Speaker*: Francesca Iris Bellotti (Italy)  
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*Speaker*: Sirawaj Itthipuripat (Thailand)
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Speaker: Amir Jahanian Najafabadi (Germany)

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Speaker: Marta Matamala-Gomez (Spain)

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Speaker: Shabnamalsadat Ayatollahi (Germany)

PS05-28AM-179  TIME PERCEPTION AND TIME-SPACE INTERACTION DURING WHOLE-BODY ROTATIONS  
Speaker: Pierre Denise (France)

PS05-28AM-180  NEXT-INTERVAL DYNAMICS SHAPE CORTICAL PROCESSING OF TOUCH  
Speaker: Wenyu Wan (Netherlands)

PS05-28AM-181  TEMPORAL FREQUENCY MASKING INTERACTIONS IN V1 DEPEND ON STIMULUS SIZE  
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PS05-28AM-190  CORTICAL ACTIVATIONS ASSOCIATED WITH SPATIAL REMAPPING OF FINGER TOUCH USING HR-EEG
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Speaker: Marina Morozova (Russian Federation)

PS05-28AM-192  SNX27: A CONSERVED COGNITIVE MODULATOR WITH IMPLICATIONS FOR ANXIETY AND STRESS SUSCEPTIBILITY
Speaker: Neide Vieira (Portugal)

PS05-28AM-193  UNRAVELING BEHAVIORAL DEFICITS IN NEUROFIBROMATOSIS TYPE 1: INSIGHTS FROM DROSOPHILA AND MOUSE MODELS
Speaker: Eirini Georganta (Greece)

PS05-28AM-194  DIFFERENTIAL SLEEP-LIKE DEFICITS OF NEUROFIBROMATOSIS 1 MUTATIONS IN DROSOPHILA MELANOGASTER.
Speaker: Kalliopi Atsoniou (Greece)

PS05-28AM-195  ABERRANT NEURONAL ACTIVITY AND HABITUATION OF THE GIANT FIBER ESCAPE RESPONSE CIRCUIT IN DROSOPHILA NF1 MUTANTS. A PHARMACOGENETIC APPROACH.
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Speaker: Enrico Pelloni (Italy)

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Speaker: Giulia Demenego (Italy)

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Speaker: Devika Kurup (Netherlands)

PS05-28AM-199  AN IGLON5 KNOCKOUT MOUSE MODEL RESULTS IN MILD BEHAVIORAL ALTERATIONS, WITHOUT NEURODEGENERATION
Speaker: Ana Beatriz Serafim (Spain)

PS05-28AM-200  PATHOPHYSIOLOGICAL SIGNIFICANCE OF THE P.E31G VARIANT IN RAC1 RESPONSIBLE FOR A NEURODEVELOPMENTAL DISORDER WITH MICROCEPHALY
Speaker: Koh-ichi Nagata (Japan)

PS05-28AM-201  EXPLORING THE NEUROPHYSIOLOGIC AND NEUROPATHOLOGIC BASIS OF VISUAL DEFICITS IN CYSTINOSIS
Speaker: Hayley Chang (United States)

PS05-28AM-202  MODELLING NEURODEVELOPMENTAL DISORDER RISK IN INBORN ERRORS OF IMMUNITY
Speaker: Ines Serra (Netherlands)

PS05-28AM-203  MISSENSE MUTATION IN THE ACTIVATION SEGMENT OF THE
**KINASE CK2 MODELS OKUR-CHUNG NEURODEVELOPMENTAL DISORDER AND ALTERS THE HIPPOCAMPAL GLUTAMATERGIC SYNAPSE**

**Speaker:** Jose Manuel Cruz Gamero (France)

**PS05-28AM-204** INVESTIGATING THE PATHOGENIC POTENTIAL OF CLSTN1 VARIANTS IN NEURODEVELOPMENTAL DISORDERS

**Speaker:** Christina Priller (Germany)

**PS05-28AM-205** INVESTIGATING THE ROLE OF NUP153 IN NEURONAL RESPONSIVENESS AND ITS LINK TO COGNITION

**Speaker:** Maria Ludovica Sforza (Germany)

**PS05-28AM-206** MOTOR AND MEMORY DEFICITS IN NESTIN-CRE PSIP1 KO MICE

**Speaker:** Laura Debusschere (Belgium)

**PS05-28AM-207** INVESTIGATING THE PATHOGENIC POTENTIAL OF KCNH5 VARIANTS IN NEURODEVELOPMENTAL DISORDERS

**Speaker:** Tobias Miering (Germany)

**PS05-28AM-208** UNLOCKING THE ROLE OF ENHANCER OF POLYCOMB HOLOGUE 1 (EPC1) IN BRAIN FUNCTION

**Speaker:** Álvaro Ballesteros-González (Spain)

**PS05-28AM-209** PIANP/LEDA-1 INFLUENCES ADULT HIPPOCAMPAL NEUROGENESIS AND CEREBELLAR MORPHOLOGY

**Speaker:** Moritz Küchler (Germany)

**PS05-28AM-210** MODELLING COGNITIVE AND PSYCHIATRIC BEHAVIOURAL TRAITS IN A MOUSE MODEL OF NEUROFIBROMATOSIS TYPE I

**Speaker:** Sonali Reisinger (Australia)

**PS05-28AM-211** THE PREDICTIVE POWER OF NEUROLOGICAL FACTORS FOR DIFFERENTIATED ATTENTION FUNCTIONS IN CHILDREN AND ADOLESCENTS WITH THE GENETIC DISORDER NEUROFIBROMATOSIS TYPE 1

**Speaker:** Rita Hansl (Austria)

**PS05-28AM-212** ANALYSIS OF ANXIETY-RELATED/SOCIAL BEHAVIOUR AND NEURAL CIRCUITRY ABNORMALITIES IN LIGAND OF NUMB PROTEIN X (LNX) KNOCKOUT MICE

**Speaker:** Laura Cioccarelli (Ireland)

**PS05-28AM-213** UNCOVERING THE MOLECULAR MECHANISM UNDERLYING PAK3 MUTATION PATHOGENICITY IN SEVERE CASES OF INTELLECTUAL DISABILITY: A MULTI-SCALE ANALYSIS FROM IN VITRO STUDIES TO KNOCK-IN MOUSE MODELS.

**Speaker:** Manon Dobrigna (France)

**PS05-28AM-214** PTCHD1 MODULATES CYTOSKELETON REMODELING THROUGH REGULATION OF RAC1-PAK SIGNALING PATHWAY, CONSISTENT WITH NEURODEVELOPMENTAL DISORDERS PHENOTYPE.

**Speaker:** Dévina Ung (France)

**PS05-28AM-215** INFANTILE CERIOD NEUROLIPOFUSCINOSIS: LINKING AUTOPHAGY, ALTERED CHLORIDE HOMEOSTASIS AND ENHANCED BRAIN EXCITABILITY.

**Speaker:** Melissa Santi (Italy)

**PS05-28AM-216** SUBCLASS-SPECIFIC IMPACT OF ETHER LIPID DEFICIENCY ON MOUSE BRAIN PATHOLOGY AND BEHAVIOUR

**Speaker:** Johannes Berger (Austria)
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**Scientific programme**

**Speaker:** Elham Habibzadeh Khiaban (Iran)

**PS05-28AM-259** ADIPONECTIN DEFICIENCY EXACERBATES CEREBROVASCULAR DYSFUNCTION IN 5XFAD MOUSE MODEL OF ALZHEIMER’S DISEASE

**Speaker:** Wenying Zou (China)

**PS05-28AM-260** COMPUTATIONAL ANALYSIS OF ALZHEIMER’S DISEASE-ASSOCIATED MISSENSE SNPS TO UNDERSTAND UNDERLYING MOLECULAR MECHANISMS AND IDENTIFY DIAGNOSTIC BIOMARKERS

**Speaker:** Aziza Abugaliyeva (Qatar)

**PS05-28AM-261** - LPS AND PRE-AGGREGATED ABETA 1-42 LEAD TO AN INCREASED NEUROINFLAMMATORY RESPONSE IN CEREBRAL ORGANOIDS

**Speaker:** Izaskun Itxaso (Austria)

**PS05-28AM-262** THERMOREGULATION IN THE TRIPLE TRANSGENIC MOUSE MODEL OF ALZHEIMER’S DISEASE: INSIGHTS AND BIOMARKER POTENTIAL

**Speaker:** Dorottya Várkonyi (Hungary)

**PS05-28AM-263** EMOTIONAL AND BLOOD-BRAIN BARRIER ALTERATIONS PRECEDE COGNITIVE DYSFUNCTION IN A MOUSE MODEL OF ALZHEIMER’S DISEASE

**Speaker:** Guillaume Benhora-Chabeaux (France)

**PS05-28AM-264** CIRCULATING MICRORNA: A PROMISING AVENUE FOR AD DIAGNOSIS AND NOVEL THERAPEUTIC TARGETS

**Speaker:** Agnese Graziosi (Italy)

**PS05-28AM-265** THE BRAIN GUT AXIS IN ALZHEIMER’S DISEASE: INSIGHTS INTO A NEW CLEARANCE MECHANISM OF AMYLOID BETA PEPTIDE AND TAU PROTEIN

**Speaker:** Maxime Seignobos (France)

**PS05-28AM-266** INDIVIDUALS WITH SUBJECTIVE COGNITIVE IMPAIRMENT EXHIBIT ELEVATED LEVELS OF TNF-A, WHICH ARE NEGATIVELY CORRELATED WITH B AMYLOID-42.

**Speaker:** Sara Serafini (Italy)

**PS05-28AM-267** SINGLE-NUCLEUS AND SPATIAL TRANSCRIPTOMIC PROFILING OF HUMAN TEMPORAL CORTEX AND ASSOCIATED WHITE MATTER REVEALS NOVEL AD TRAIT ASSOCIATIONS

**Speaker:** Pallavi Gaur (United States)

**PS05-28AM-268** BRAIN DELIVERY AND EFFICACY OF A BBB SHUTTLE-ENHANCED ADUCANUMAB BIOSIMILAR IN A MOUSE MODEL OF ALZHEIMER’S DISEASE

**Speaker:** Thomas Topilko (Denmark)

**PS05-28AM-269** CISTERNA MAGNA INFUSION OF B-AMYLOID ANTIBODY REDUCES ALZHEIMER’S DISEASE PATHOLOGY IN MOUSE MODELS

**Speaker:** Gehua Wen (Sweden)

**PS05-28AM-270** IRISIN LEVELS IN CEREBROSPINAL FLUID CORRELATE WITH BIOMARKERS AND CLINICAL DEMENTIA SCORES IN ALZHEIMER’S DISEASE.

**Speaker:** Manuela Dicarlo (Italy)

**PS05-28AM-271** SERUM IRISIN LEVELS POSITIVELY CORRELATE WITH NEUROPSYCHOLOGICAL SCORES IN PATIENTS WITH DEMENTIA AND COULD BE A POTENTIAL BIOMARKER OF ALZHEIMER’S DISEASE.

**Speaker:** Patrizia Pignataro (Italy)
PS05-28AM-272  EXPLORING THE RELATIONSHIP BETWEEN ADIPOSE TISSUE AND ALZHEIMER’S DISEASE PATHOGENESIS
Speaker: Miriam Bettinetti-Luque (Spain)

PS05-28AM-273  TFEB-LOADED EXOSOMES MEDIATED AUTOPHAGY INDUCTION IN ALZHEIMER’S DISEASE
Speaker: Heewon Cho (Korea, Republic of)

PS05-28AM-274  MEDICA ATTENUATE COGNITIVE DEFICITS AND NEUROINFLAMMATION.
Speaker: Yeji Jeon (Korea, Republic of)

PS05-28AM-275  AMYLOID-B PREDICTS OSCILLATORY SLOWING AND REDUCED FUNCTIONAL CONNECTIVITY OVER TIME IN COGNITIVELY UNIMPAIRED ADULTS.
Speaker: Elliz Scheijbeler (Netherlands)

PS05-28AM-276  CHRONIC LATENT TOXOPLASMA GONDII INFECTION PRECIPITATES COGNITIVE DECLINE IN AN INDUCIBLE ALZHEIMER’S DISEASE MODEL
Speaker: Elisa Roitg (France)

PS05-28AM-277  EFFICACY AND SAFETY OF ANTI-AMYLOID ANTIBODIES IN ALZHEIMER’S DISEASE: A COMPARISON OF CONVENTIONAL, BAYESIAN AND FREQUENTIST NETWORK META-ANALYSES
Speaker: Danko Jeremic (Spain)

PS05-28AM-278  UNVEILING DISEASE TRAJECTORIES WITH OPTIVIS DIGITAL TWINS: FROM MCI TO ALZHEIMER’S DISEASE
Speaker: Seung Hyun Baek (Korea, Republic of)

PS05-28AM-279  OCULAR BIOMARKERS FOR EARLY DIAGNOSIS OF ALZHEIMER’S DISEASE IN NON-HUMAN PRIMATE MODEL
Speaker: Louiza Arouche Delaperche (France)

PS05-28AM-280  NEUROENDOCRINE DYSREGULATION IN MICROGLIAL CELLS DURING THE PROGRESSION OF ALZHEIMER’S DISEASE: PRELIMINARY INSIGHTS FROM GENE EXPRESSION ANALYSIS
Speaker: Arif Kamil Salihoglu (Turkey)

PS05-28AM-281  TNAP AND P2X7R: NEW PLASMA BIOMARKERS FOR ALZHEIMER’S DISEASE
Speaker: Paloma Aivar (Spain)

PS05-28AM-282  EXPLORING THE COMBINATORIAL, DIAGNOSTIC UTILITY OF MULTIMODAL BIOMARKERS IN DIFFERENTIALLY DIAGNOSING DEMENTIA WITH LEWY BODIES FROM ALZHEIMER’S THROUGH PREDICTIVE STATISTICAL MODELLING.
Speaker: Katherine Birditt (United Kingdom)

PS05-28AM-283  CIRCULATING MICRORNAS AS BIOMARKER FOR ALZHEIMER’S DISEASE
Speaker: Nina Hempel (Germany)

PS05-28AM-284  CROSS SPECIES SINGLE-CELL/NUCLEUS RNA-SEQ UNCOVERS THE EVOLUTIONARILY CONSERVED PATHOLOGICAL MECHANISMS OF VASCULAR CONTRIBUTION TO ALZHEIMER’S DISEASE
Speaker: Elanur Yilmaz (United States)

PS05-28AM-285  P.GINGIVALIS AND TITANIUM OXIDE NANO PARTICLES INDUCE INFLAMMATION IN BBB MICROGLIA IN-VITRO
Speaker: Yasmin Louzon (Israel)

PS05-28AM-286  THE NEUROPATHOLOGIC BASIS FOR TRANSLATIONAL BIOMARKER DEVELOPMENT IN THE MACAQUE MODEL OF LATE-
ONSET ALZHEIMER’S DISEASE
Speaker: Alvaro Duque (United States)

GUT MICROBIOME METABOLITES AND ALZHEIMER’S DISEASE
Speaker: Katarina Fatur (Switzerland)

THE INTERPLAY BETWEEN OXIDATIVE STRESS, MITOCHONDRIAL DYSFUNCTION AND ALTERATION OF PARVALBUMIN INTERNEURONS IN POSTMORTEM BRAIN OF ALZHEIMER’S DISEASE AND MILD COGNITIVE IMPAIRMENT PATIENTS.
Speaker: Andrea Piotti (Switzerland)

Poster Session 05 - Section 68
Poster Sessions
09:30 - 13:00

NEURO-IMMUNOBIOLOGY IN A MOUSE MODEL OF ANTI-NMDAR ENCEPHALITIS AND ASSESSMENT OF TREATMENT APPROACHES
Speaker: Estibaliz Maudes (Spain)

CHARACTERIZATION OF PERIPHERAL AND BRAIN-SPECIFIC INNATE IMMUNE RESPONSES IN A MURINE MODEL OF NMDAR ENCEPHALITIS
Speaker: Laura Marmolejo Alcaide (Spain)

EX-VIVO AND IN-VIVO ANALYSIS OF HIPPOCAMPAL PATHOLOGY IN A MURINE MODEL OF ANTI-GABA\textsubscript{A} AUTOIMMUNE ENCEPHALITIS
Speaker: Eleonora Anna Loi (Germany)

HUMAN ANTI-GLU1 AUTOANTIBODIES AFFECT CAMKII AND DAPK1 PATHWAY DEPENDENT SYNAPTIC PLASTICITY IN PRIMARY HIPPOCAMPAL MOUSE NEURONS
Speaker: Marin Kempfer (Germany)

GLYCINE RECEPTOR AUTOANTIBODIES IMPAIR INHIBITORY NEUROTRANSMISSION BY TARGETING PRESYNAPTIC GLYCINE RECEPTORS
Speaker: Anna-Lena Wiesler (Germany)

PLACENTAL TRANSFER OF NMDA RECEPTOR AUTOANTIBODIES IMPAIRS CORRELATED NETWORK ACTIVITY BY AFFECTING GABAERGIC NEUROTRANSMISSION
Speaker: Chuanqiang Zhang (Germany)

CASPR2 AUTOANTIBODY PATHOLOGY IS MEDIATED BY ALTERED EXCITABILITY OF SENSORY DORSAL ROOT GANGLIA
Speaker: Margarita Habib (Germany)

STRUCTURAL AND FUNCTIONAL MECHANISMS OF ANTI-NMDAR AUTOIMMUNE ENCEPHALITIS
Speaker: Taha Abdulla (Germany)

EFFECTS OF ANTI-LGI1 HUMAN MONOCLONAL ANTIBODIES ON MOUSE BEHAVIOR, ULTRASTRUCTURE AND ION CHANNEL DISTRIBUTION AT SYMPSYES AND AXON INITIAL SEGMENTS
Speaker: Jacqueline Montanaro (Austria)

AUTOANTIBODY-INDUCED SYNAPTIC AND EXTRASYNAPTIC DYSFUNCTION OF LGI1 AND KV1-CHANNELS AS A CAUSE OF LGI1 ENCEPHALITIS
Speaker: Josefine Sell (Germany)

N-AGLYCOSYLATED EXTRACELLULAR LOOP OF THE POTASSIUM
CHANNEL KCNJ10 AS CONTRIBUTOR TO AUTOIMMUNITY IN MULTIPLE SCLEROSIS

Speaker: Arnaud Nicot (France)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 82

PS05-28AM-421 EEG BETA DE-SYNCHRONIZATION SIGNS THE EFFICACY OF A REHABILITATION TREATMENT FOR SPEECH IMPAIRMENT IN PARKISON’S DISEASE POPULATION
Speaker: Giovanni Vecchiato (Italy)

PS05-28AM-422 OUTCOME OF DEEP BRAIN STIMULATION OF THE GLOBUS PALLIDUS PARS INTERNA IN GENETIC DYSTONIA SYNDROMES
Speaker: Mahboubeh Ahmadipour (Italy)

PS05-28AM-423 NEURAL BURSTS AND FIRING REGULARITY AS CONVERGENT NEURAL DYNAMICS IN GLOBUS PALLIDUS FOR GENETIC DYSTONIA SYNDROMES
Speaker: Ahmet Kaymak (Italy)

PS05-28AM-424 GENDER DIFFERENCES IN EVENT-RELATED POTENTIALS OF SUBJECTIVE COGNITIVE DECLINE AND MILD COGNITIVE IMPAIRMENT DURING A SUSTAINED VISUO-ATTENTIVE TASK
Speaker: Alberto Vergani (Italy)

PS05-28AM-425 INVOLVEMENT OF THE HYPOTHALAMIC A11 NUCLEUS IN THE PATHOPHYSIOLOGY OF PARKINSONIAN-LIKE NOCICEPTIVE DISABILITIES
Speaker: Alexia Duveau (France)

PS05-28AM-426 THE APERIODIC COMPONENT OF SUBTHALAMIC LFP IS SENSITIVE TO DOPAMINERGIC STATE AND MOTOR IMPAIRMENT IN PARKINSON’S DISEASE
Speaker: Ksenia Sayfulina (Russian Federation)

PS05-28AM-427 PALLIDAL SINGLE CELL ACTIVITY OF MEDICATED PATIENTS WITH PARKINSON’S DISEASE
Speaker: Philip Pavlovsky (Russian Federation)

PS05-28AM-428 THE SUBTHALAMIC NUCLEUS CONTROLS NOCICEPTIVE INTEGRATION IN THE SPINAL CORD AND REVERSE NOCICEPTIVE HYPESENSITIVITY IN PARKINSON’S DISEASE
Speaker: Rabia Bouali-Benazzouz (France)

PS05-28AM-429 INTERACTIONS BETWEEN THE SUBTHALAMIC NUCLEUS AND THE PRIMARY MOTOR CORTEX CONTROL PARKINSONIAN MOTOR AND NOCICEPTIVE DISORDERS
Speaker: Elba Molpeceres (France)

PS05-28AM-430 INCREASE IN CORTICOSPINAL CELL FIRING DESPITE REDUCED EXCITABILITY OF INDIVIDUAL CORTICOSPINAL CELLS: PARADOXICAL EFFECTS IN COMPUTER MODEL OF MOTOR CORTEX
Speaker: William Lytton (United States)

PS05-28AM-431 PATHOLOGY OF THE SUBTHALAMIC NUCLEUS IN PARKINSON’S DISEASE
Speaker: Asheeta Prasad (Australia)

PS05-28AM-432 FREQUENCY- AND LAYER-SPECIFIC EFFECTS OF HIGH-FREQUENCY STN STIMULATION ON MOUSE MOTOR CORtical AREAS IN VIVO
Speaker: Svenja Kreis (Germany)
PS05-28AM-433  IMPACT OF DEEP BRAIN STIMULATION ON QUALITY OF LIFE IN PARKINSON’S DISEASE PATIENTS  
**Speaker:** Sanjay Kumar (India)

PS05-28AM-434  EFFECT OF PALLIDAL DBS ON THE CEREBELLAR CORTEX OF A DYSTONIC MODEL  
**Speaker:** Fabiana Santana Kragelund (Germany)

PS05-28AM-435  REDUCED PAIN THRESHOLDS IN TWO PARKINSON’S DISEASE MICE MODELS  
**Speaker:** Carlos Salas Prieto (Spain)

PS05-28AM-436  SPECIES-SPECIFIC PROPERTIES OF PARKINSONIAN BETA OSCILLATIONS SUGGEST DIVERGING GENERATION MECHANISMS  
**Speaker:** Elena Nicollin (France)

PS05-28AM-437  STATE DEPENDENT NEURAL CORRELATES OF MOTOR IMPAIRMENTS IN PARKINSON’S DISEASE  
**Speaker:** Burce Kabaoglu (Germany)

PS05-28AM-438  LOCAL AND SYSTEMIC EFFECTS - INTERMITTENT THETA BURST STIMULATION AMELIORATES 6-OHDA-INDUCED PARKINSON’S DISEASE PATHOLOGY BY MODULATING PURINERGIC SIGNALING AND OXIDATIVE STRESS  
**Speaker:** Milorad Dragic (Serbia)

PS05-28AM-439  THETA BURST STIMULATION IMPROVES MOTOR RECOVERY BY RESTORING THE INTERACTION OF D1R-A1R AND D2R-A2AR IN THE 6-OHDA MODEL OF PARKINSON’S DISEASE  
**Speaker:** Milica Zeljkovic Jovanovic (Serbia)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 05 - Section 66**

PS05-28AM-319  UNLOCKING THE POTENTIAL OF SVZ-DERIVED OLIGODENDROCYTES THROUGH BDNF AND ADENOSINE A2AR MODULATION  
**Speaker:** Joana Mateus (Portugal)

PS05-28AM-320  EXPLORING THE NEUROGENIC AND SYNAPTOGENIC EFFECTS OF CAFFEINE  
**Speaker:** João Moreira (Portugal)

PS05-28AM-321  UNRAVELING THE ROLES OF OLIGODENDROCYTE PROGENITOR CELLS IN THE DEVELOPMENT OF THE CORTICAL INHIBITORY SYSTEM  
**Speaker:** Enrica Boda (Italy)

PS05-28AM-322  UNDERSTANDING MOLECULAR MECHANISMS IN OLIGODENDROCYTE DEVELOPMENT IN VITRO USING HUMAN FETAL NEURAL STEM CELLS  
**Speaker:** Sudip Sen (India)

PS05-28AM-323  THE ENDOTHELIAL NMDA RECEPTOR: A NEW PLAYER IN THE DIFFERENTIATION OF CORTICAL OLIGODENDROCYTES?  
**Speaker:** Alexandre Béranger (France)

PS05-28AM-324  ROLE OF ADENOSINE A1 RECEPTORS IN OLIGODENDROCYTE REGENERATION  
**Speaker:** Wenhui Huang (Germany)

PS05-28AM-325  IMPAIRED MACROAUTOPHAGY IN OLIGODENDROCYTE PRECURSOR CELLS EXACERBATES AGING-RELATED COGNITIVE
DEFSITS VIA A SENESCENCE ASSOCIATED SIGNALING  
**Speaker:** Hong Chen (China)  
**PS05-28AM-326** MYELIN PLASTICITY REQUIRES THE EXPRESSION IN OLIGODENDROCYTE PROGENITORS OF NMDA RECEPOTRS CONTAINING GLUN3A SUBUNITS  
**Speaker:** Moumita Chatterjee (Spain)  
**PS05-28AM-327** ROLE OF NCOR1 AND NCOR2 TRANSCRIPTIONAL COREPRESSORS IN MYELIN DEVELOPMENT AND REMYEILINATION  
**Speaker:** Rubi Hernández Rojas (Spain)  
**PS05-28AM-328** DEVELOPMENTAL CELL DEATH OF INTERNEURONS AND OLIGODENDROGLIA IS REQUIRED FOR COGNITIVE FLEXIBILITY IN MICE  
**Speaker:** Cristobal Ibaceta (France)  
**PS05-28AM-329** ELUCIDATING THE IMPACT OF DEMYEILINATION AND REMYEILINATION ON INHIBITORY SYNAPTIC TRANSMISSION IN THE SOMATOSENSORY CORTEX OF A MOUSE MODEL OF CUPRIZONE  
**Speaker:** Eduardo Fernandez Perez (France)  
**PS05-28AM-330** DYNAMIC CALCIUM SIGNALS OF OLIGODENDROGLIA IN DEMYEILATED LESIONS  
**Speaker:** Roxane Bancel Vega (France)  
**PS05-28AM-331** ADOLESCENT OLIGODENDROGENESIS AND MYELINATION RESTRICT NEURONAL PLASTICITY IN THE MAMMALIAN CORTEX  
**Speaker:** Wendy Xin (United States)  
**PS05-28AM-332** OPCS MODULATE NEURONAL ACTIVITY VIA DIRECT CONTACT ON THE LYSOSOME RELEASING SITE OF NEURONS  
**Speaker:** Lipao Fang (Germany)  
**PS05-28AM-333** QUENCHING MITOCHONDRIAL REACTIVE OXYGEN SPECIES IN OLIGODENDROCYTES PROTECTS AXONAL FUNCTION IN AGING AND NEUROINFLAMMATARY DISEASE  
**Speaker:** Urvashi Dalvi (Switzerland)  
**PS05-28AM-334** CHEMOGENETIC ACTIVATION OF OLIGODENDROCYTES MODULATRES BEHAVIOURAL PROCESSES  
**Speaker:** Stefano Calovi (Spain)  
**PS05-28AM-335** CORTICAL OLIGODENDROCYTE PRECURSOR CELLS EXHIBIT DISTINCT CALCIUM ACTIVITY PATTERNS DURING FATE PROGRESSION  
**Speaker:** Frederic Fiore (Germany)  

*Poster Sessions*  
**Poster Session 05 - Section 138**  
**PS05-28AM-336** ELUCIDATING THE ROLE OF A2Delta PROTEINS IN SYNAPSE ORGANIZATION  
**Speaker:** Clarissa Eibl (Austria)  
**PS05-28AM-337** NANOBODY TARGETING OF A2Delta PROTEINS TO STUDY THE MOLECULAR SYNAPTIC ORGANIZATION  
**Speaker:** Manuel Hessenberger (Austria)  
**PS05-28AM-338** SUBCELLULAR LOCALIZATION OF THE CALCIUM CHANNEL CA2.3 IN CULTURED HIPPOCAMPAL NEURONS  
**Speaker:** Stephan-Matthias Schulreich (Austria)
PS05-28AM-339  A BIALLELIC MUTATION IN CACNA2D2 ASSOCIATED WITH EPILEPTIC ENCEPHALOPATHY AFFECTS CALCIUM CHANNEL DEPENDENT AS WELL AS SYNAPTIC FUNCTIONS OF A2Δ-2.
Speaker: Sabrin Haddad (Austria)

PS05-28AM-340  IMPROVED NEURONAL SURFACE DETECTION OF A2Δ PROTEINS BY NANOBODY IMMUNOLABELING
Speaker: Ruslan Stanika (Austria)

PS05-28AM-341  BIOPHYSICALLY DETAILED CORTICAL NEURON MODELS WITH GENETICALLY-DEFINED ION CHANNELS
Speaker: Darshan Mandge (Switzerland)

PS05-28AM-342  CHANNELOME: A COMPREHENSIVE RESOURCE FOR VOLTAGE-GATED ION CHANNELS
Speaker: Rajnish Ranjan (Switzerland)

PS05-28AM-343  AN ANKYRIN G BINDING MOTIF MEDIATES TRAAK LOCALIZATION TO THE AXON INITIAL SEGMENT
Speaker: Virginia Luque Fernández (Denmark)

PS05-28AM-344  A NOVEL CORRELATION-BASED METHOD FOR QUANTIFYING MEMBRANE-ASSOCIATED PERIODIC SKELETON PERIODICITY
Speaker: Sam Kris Vanspauwen (Denmark)

PS05-28AM-345  ROLE OF THE CASR IN NEURONAL EXCITABILITY IN CA1 HIPPOCAMPAL REGION
Speaker: Konstantina Mylonaki (France)

PS05-28AM-346  THE CALCIUM LINK UNCOVERED: INVESTIGATING TRPC3 AND SKCA CHANNELS INTERACTION
Speaker: Hazel Erkan-Candag (Austria)

PS05-28AM-347  KCC2A CONTROLS KCC2B MEMBRANE EXPRESSION, RECYCLING AND FUNCTION IN MATURE HIPPOCAMPAL NEURONS.
Speaker: Carla Pagan (France)

PS05-28AM-348  SPONTANEOUS AND TONIC ACTION POTENTIAL FIRING IS SUSTAINED BY MEMBRANE POTENTIAL INSTABILITIES IN PERIPHERAL SENSORY NEURONS
Speaker: Enrique Velasco (Belgium)

PS05-28AM-349  LEUKODYSTROPHY-RELATED ALANINE-TO-VALINE MUTATIONS IN THE TRANSMEMBRANE HELIX O DISRUPT PROTEIN HOMEOSTASIS OF HUMAN CLC-2 CHANNEL
Speaker: Chia-Ying You (Taiwan)

PS05-28AM-350  K_v11.1 PROTEIN QUALITY CONTROL BY MKRN1
Speaker: Ya-Ching Fang (Taiwan)

PS05-28AM-351  NON-CANONICAL ROLE OF NKCC1 CHLORIDE TRANSPORTER IN NEURONS: A SCAFFOLD PROTEIN FOR SPAK KINASE?
Speaker: Erwan Pol (France)

PS05-28AM-352  P2X4 RECEPTORS CONTRIBUTE TO LYSOSOMAL PROPERTIES AND FUNCTIONS
Speaker: Congiu Ludovica (France)

PS05-28AM-353  UNVEILING THE MISSING LINK BETWEEN CELL MEMBRANE SIGNALING AND MITOCHONDRIA NCLX REGULATION: CRUCIAL ROLE OF NITRIC OXIDE
Speaker: Silvia Piccirillo (Italy)

PS05-28AM-354  DISTINCT CALCIUM SOURCES REGULATE THE TEMPORAL PROFILES OF NMDAR AND MGLUR MEDIATED PROTEIN SYNTHESIS IN NEURONS
**Scientific programme**

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

**Speaker:** Bindushree Kapu Radhakrishna (India)

**PS05-28AM-355**  
**PPiase contributes to EA2-associated defective protein homeostasis of human Ca\textsubscript{2.1} channel**

**Speaker:** Ssu-Ju Fu (Taiwan)

**PS05-28AM-356**  
**The bright side of mitochondrial calcium uniporter: MCU can protect hippocampal CA2 neurons from excitotoxic damage.**

**Speaker:** Aleksandra Kaczynska (Poland)

**PS05-28AM-357**  
**TRESK potassium channel exerts a brake on neuronal excitability and modulates hippocampal synaptic plasticity.**

**Speaker:** Helena Lluis Sánchez-Lafuente (Spain)

**PS05-28AM-358**  
**Ryanodine receptors modulate synaptic transmission and non-L type calcium channels in mouse hippocampal neurons and adrenal chromaffin cells**

**Speaker:** Enis Hidisoglu (Italy)

**PS05-28AM-359**  
**Function determination for structural domains of secretagogin, an EF-hand Ca\textsuperscript{2+}-sensor protein**

**Speaker:** Anika Raabgründ (Austria)

**PS05-28AM-360**  
**Modulation of Cav1.2 currents tunes dendritic growth in cultured hippocampal neurons**

**Speaker:** Stefano Lanzetti (Austria)

**PS05-28AM-361**  
**KCNO1 – A long underestimated potassium channel in the brain?**

**Speaker:** Dorothea Schall (Germany)

**PS05-28AM-362**  
**Mechanisms of facilitation of cortical spreading depression in a genetic mouse model of migraine with a gain-of-function mutation in Ca\textsubscript{v}2.1 channels.**

**Speaker:** Marina Vitale (Italy)

**PS05-28AM-363**  
**The reprecussions of electrogenic Na\textsuperscript{+}/K\textsuperscript{+}-ATPase in excitatable cells with high and variable firing rates**

**Speaker:** Liz Weerdmeester (Germany)

**PS05-28AM-364**  
**A gain-of-function mutation in the CAMK4 gene induced elevated CAMK4 basal activity in vitro and altered spatial memory in a knock-in mouse model**

**Speaker:** Andrew Gundlach (Australia)

**PS05-28AM-365**  
**Identification of secreted protein 1 (SEP1) as new interaction partner of ASIC1**

**Speaker:** Sven Kuspiel (Germany)

**PS05-28AM-366**  
**Type 1 transmembrane AMPA-receptor regulatory proteins are auxiliary subunits of Kv7.2 voltage-gated potassium channels**

**Speaker:** Marina Ventura Rodrigues (Portugal)

**PS05-28AM-367**  
**Unraveling the role of NALCN in neural circuit development**

**Speaker:** Candela Barettino (Spain)

**PS05-28AM-368**  
**Regulation of repressor-element 1 silencing transcription factor (REST) by CAMKIV.**

**Speaker:** Hanako Tsushima (Italy)
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PS05-28AM-016  BLA OUTPUT PATHWAYS DURING PAVLOVIAN FEAR CONDITIONING.
Speaker: Joanna Yau (Australia)

PS05-28AM-017  ACTIVITY-DEPENDENT ORGANIZATION OF PREFRONTAL HUB-NETWORKS FOR ASSOCIATIVE LEARNING AND SIGNAL TRANSFORMATION
Speaker: Masakazu Agetsuma (Japan)

PS05-28AM-018  A BIOPHYSICAL MECHANISM FOR CHANGING THE THREAT SENSITIVITY OF ESCAPE BEHAVIOUR
Speaker: Yaara Lefler (United Kingdom)

PS05-28AM-019  AUDITORY STIMULI REDUCE FEAR RESPONSES IN A SAFETY LEARNING PROTOCOL INDEPENDENT OF A POSSIBLE LEARNING PROCESS
Speaker: Elena Mombelli (Switzerland)

PS05-28AM-020  INTRINSIC EXCITABILITY OF ANTERIOR TO POSTERIOR INSULA (AIC-PIC) PROJECTION NEURONS ARE DIFFERENTLY MODIFIED FOLLOWING RETRIEVAL OF AVERSIVE CONDITIONING.
Speaker: Sailendrakumar Kolatt Chandran (Israel)

PS05-28AM-021  EFFECTS OF PERFORMANCE AND ADDITIONAL PUNISHMENT ON AUDITORY-EVOKED BRAIN ACTIVATION PATTERNS IN DISCRIMINATION LEARNING - AN AUDITORY FMRI STUDY IN THE MONGOLIAN GERBIL
Speaker: Annika Michalek (Germany)

PS05-28AM-022  REVISITING CONTEXTUAL FEAR PROCESSES USING A NOVEL SOCIAL CONDITIONED PLACE AVERSION PROTOCOL
Speaker: Lito Parapera Papantoniou (Switzerland)

PS05-28AM-023  CELL-TYPE SPECIFIC SIGNATURES OF PLASTIC CS CODING IN THE INSULA DURING FEAR LEARNING
Speaker: Bei-Xuan Lin (Switzerland)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 73
PS05-28AM-067  AN AUTOMATED BEHAVIORAL PLATFORM FOR MULTISENSORY DECISION-MAKING IN MICE
Speaker: Fatemeh Yousefi (Germany)

PS05-28AM-068  PASSIVE VERSUS ACTIVE NOVELTY DETECTION: HOW VOLITION SHAPES OLFACTORY REPRESENTATIONS IN THE MEDIAL TEMPORAL LOBE
Speaker: Eleonore Schiltz (Belgium)

PS05-28AM-069  CONTEXT-GUIDED SEQUENCE MEMORY ACROSS SPECIES
Speaker: Ben Slater (United Kingdom)

PS05-28AM-070  AN AUTOMATED TACTILE DISCRIMINATION LEARNING TASK FOR FREELY-MOVING MICE
Speaker: Nadin Mari Saluti (Germany)

PS05-28AM-071  THE 3HS INITIATIVE: HANDLING, HOUSING AND HABITUATION
Speaker: Megan Jackson (United Kingdom)

PS05-28AM-072  A FULLY FLEXIBLE, OPEN-SOURCE, PYTHON-BASED RODENT BEHAVIOR PLATFORM
Speaker: Alexander Wallerus (Austria)

PS05-28AM-073  TACTILE PERCEPTION AND MEMORY IN RATS AND HUMANS: A
GENERAL FRAMEWORK ACROSS TASKS AND SPECIES
Speaker: Davide Giana (Italy)

PS05-28AM-074 EXPLORING RATS' ADAPTIVE BEHAVIOR IN COMPLEX ENVIRONMENT
Speaker: Ravindra Sahu (Poland)

PS05-28AM-075 SECOND-ORDER AND CONFIGURAL PROCESSING IN THE RAT VISUAL SYSTEM
Speaker: Angelina Tadić (Italy)

PS05-28AM-076 ADAPTATION OF RATS AND HUMANS TO A VOLATILE HIDDEN MARKOV MODEL FOR REWARD COLLECTION
Speaker: Maria Ravera (Italy)

PS05-28AM-077 FRUIT FRACTION DISCRIMINATION AND CONCEPT GENERALIZATION IN AN ASIAN ELEPHANT (ELEPHAS MAXIMUS)
Speaker: Lena Kaufmann (Germany)

PS05-28AM-078 MACHINE LEARNING-BASED IDENTIFICATION OF ULTRASONIC VOCALIZATION SUBTYPES DURING RAT CHOCOLATE CONSUMPTION
Speaker: Koshi Murata (Japan)

PS05-28AM-079 A DEEP LEARNING APPROACH FOR THE RECOGNITION OF BEHAVIORS IN THE FORCED SWIM TEST
Speaker: Gregorio Sonsini (Italy)

PS05-28AM-080 MOTOR NEUROPROSTHETIC CONTROL BY WISTAR RATS IN A ONE-DIMENSIONAL TWO-TARGET REACHING TASK
Speaker: Mehmet Kocatürk (Turkey)

PS05-28AM-081 AN ERGONOMIC RODENT HEAD FIXATION APPARATUS FOR CLOSED-LOOP CURSOR CONTROL
Speaker: Halise Erten (Turkey)

PS05-28AM-082 RATS PERCEIVE THE CHANGE IN MOTION DIRECTION OF A CURSOR ON PC MONITOR
Speaker: Hasan Berke Bilki (Turkey)

PS05-28AM-083 HOMECAGE-BASED UNSUPERVISED NOVEL OBJECT RECOGNITION IN MICE
Speaker: Sui Hin Ho (United Kingdom)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 149

PS05-28AM-440 SINGLE CELL MAPPING THE EVOLUTION OF THE SPATIAL PROCESSING CENTRE IN THE BRAIN
Speaker: Dorottya Ralbovszki (Denmark)

PS05-28AM-441 NAVIGATING THROUGH THE ENTORHINAL CORTEX: COMBINING SINGLE-CELL ELECTROPHYSIOLOGY AND RNA-SEQUENCING TO ADVANCE OUR KNOWLEDGE ON THE NEURONAL ARCHITECTURE.
Speaker: Eliška Waloschková (Denmark)

PS05-28AM-442 CELLULAR AND MOLECULAR FOOTPRINT OF AGING IN A DEFINED NEURONAL NETWORK ENCODING ASSOCIATIVE MEMORY
Speaker: Zsolt Pirger (Hungary)

PS05-28AM-443 HISTOLOGICAL, CELLULAR, AND MOLECULAR CHANGES INDUCED BY CHRONIC EXPOSURE TO THE (NEURO)ENDOCRINE
DISRUPTOR TRIBUTYL Tin IN A WIDELY USED INVERTEBRATE 
MODEL SPECIES

Speaker: István Fodor (Hungary)

PS05-28AM-444 CELLULAR AND MOLECULAR CHANGES IN THE MEDIAL 
ENTORHINAL CORTEX DURING AGING

Speaker: Sorgog Uzeen (China)

PS05-28AM-445 LATERAL ENTORHINAL CORTEX MODULATION OF SPATIAL AND 
OBJECT-FIRING IN THE MEDIAL ENTORHINAL CORTEX

Speaker: Brianna Vandrey (United Kingdom)

PS05-28AM-446 DNA METHYLATION PATTERNS IN AGING

Speaker: Alejandro Gonzalez Ramon (Spain)

PS05-28AM-447 CELL TYPE EMERGENCE IN THE DEVELOPING MEDIAL 
ENTORHINAL CORTEX IS REGULATED BY BCL11B.

Speaker: Keagan Dunville (Norway)

PS05-28AM-448 LAMINAR SYNAPTIC CHARACTERISTICS OF THE HUMAN 
ENTORHINAL CORTEX

Speaker: Sergio Plaza-Alonso (Spain)

PS05-28AM-449 DEGENERATION OF THE ASCENDING VESTIBULAR PATHWAY 
ACCOUNTS FOR SPATIAL NAVIGATION DEFICITS IN AGED MICE

Speaker: Ying-Shing Chan (Hong Kong)

PS05-28AM-450 NUCLEAR EXPANSION DRIVES CHROMATIN STRUCTURE 
REMODELING IN AGING NEURONS

Speaker: Dmitrii Kriukov (Russian Federation)

PS05-28AM-451 SYNAPTIC NEUROFILAMENTS CHANGES DURING AGING AND 
THE EFFECT OF ENVIRONMENTAL ENRICHMENT

Speaker: Elisa Principi (Italy)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 157

PS05-28AM-053 ANALYSIS OF BRAIN NETWORK CHANGES IN A VALPROIC ACID-
TREATED AUTISM MOUSE MODEL DURING SOCIAL 
STIMULATION

Speaker: Róbert Kemecsei (Hungary)

PS05-28AM-054 POTENTIATED VASOPRESSIN ASCENDING SYSTEM IN THE 
C58JBL MICE: IS THERE A RELATIONSHIP BETWEEN 
VASOPRESSIN SYSTEM ABNORMALITY AND AUTISTIC 
PHENOTYPE?

Speaker: Oscar Hernandez-Perez (Mexico)

PS05-28AM-055 AGE-RELATED ALTERATIONS OF SPATIAL MEMORY IN RAT 
MODEL OF AUTISM INDUCED BY VALPROIC ACID

Speaker: Manana Dashniani (Georgia)

PS05-28AM-056 DEVELOPMENTAL ALTERATION OF SOCIAL BEHAVIOR IN RAT 
MODEL OF AUTISM

Speaker: Khatuna Rusadze (Georgia)

PS05-28AM-057 GENDER SPECIFIC DIFFERENCES IN CHOLINERGIC AND GABA-
ERGIC ACTIVITY IN THE PREFRONTAL CORTEX IN PRENATALLY 
VALPROIC ACID EXPOSED ADULT RATS.

Speaker: Maia Burjanadze (Georgia)

PS05-28AM-058 RODENT PROPIONIC ACID MODEL OF AUTISM: SYNAPTIC 
ARCHITECTURE OF THE HIPPOCAMPUS AND PREFRONTAL 

Speaker: Maia Burjanadze (Georgia)
**CORTEX**

**Speaker:** Mzia Zhvania (Georgia)

**PS05-28AM-059**  
**EFFECT OF ENERGI IN VALPROATE-INDUCED ANIMAL WITH AUTISM SPECTRUM DISORDER**

**Speaker:** Chi-Chun Wu (Taiwan)

**PS05-28AM-060**  
**BLUNTED TLR3-INDUCED INFLAMMATORY GENE EXPRESSION IN THE PREFRONTAL CORTEX OF THE VALPROIC ACID MODEL OF AUTISM, AN EFFECT UNALTERED BY INCREASING ENDOCANNABINOID TONE**

**Speaker:** Jonathan Costello (Ireland)

**PS05-28AM-061**  
**IMPACT OF A COCKTAIL OF FUNGICIDES AT THE REGULATORY DOSE IN EUROPE ON THE NEURODEVELOPMENT OF A MICE MODEL OF AUTISM SPECTRUM DISORDERS (ASD)**

**Speaker:** Lucie Salvador-Prince (France)

**PS05-28AM-062**  
**GESTATIONAL VPA EXPOSURE REDUCES THE DENSITY OF JUXTAPOositions BETWEEN TH+ AXONS AND CALRETININ OR CALBINDIN EXPRESSING CELLS IN THE VENTROBASAL FOREBRAIN OF JUVENILE MICE**

**Speaker:** Cintia Klaudia Finszter (Hungary)

**PS05-28AM-063**  
**CHARACTERIZATION OF THE TRANSCRIPTIONAL LANDSCAPE OF ENDOGENOUS RETROVIRUSES AT THE FETAL-MATERNAL INTERFACE IN A MOUSE MODEL OF AUTISM SPECTRUM DISORDER**

**Speaker:** Martina Giudice (Italy)

**PS05-28AM-064**  
**BEHAVIORAL PERFORMANCE OF MICE IN OPEN FIELD TEST (OFT) EXPOSED TO THE COMBINATION OF LEVETIRACETAM (LEV) AND VALPROIC ACID (VPA) (1:1) DURING WHOLE GESTATION**

**Speaker:** Jelena Podgorac Kojadinovic (Serbia)

**PS05-28AM-065**  
**UNRAVELING GENDER DISPARITIES IN AUTISM SPECTRUM DISORDERS: THE IMPACT OF IMMUNOLOGICAL FACTORS IN A MOUSE MODEL OF AUTISM**

**Speaker:** Araceli Seiffe (Argentina)

**PS05-28AM-066**  
**A NOVEL SONGBIRD MODEL OF AUTISM**

**Speaker:** Gergely Zachar (Hungary)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 05 - Section 131**

**PS05-28AM-569**  
**UNTANGLING THE VISUOMOTOR CIRCUIT IN INTACT AND REGENERATING BRAINS OF THE AXOLOTL (AMBYSTOMA MEXICANUM) USING BEHAVIORAL ASSAYS, CALCIUM IMAGING AND OPTOGENETICS**

**Speaker:** Simone Horenkamp (Austria)

**PS05-28AM-570**  
**PATTERning AND FUNCTIONALITY OF THE REGENERATED NERVOUS SYSTEM**

**Speaker:** Carina Seidl (Austria)

**PS05-28AM-571**  
**DEVELOPING AN ADAPTABLE VISUAL BEHAVIOR ASSAY TO FUNCTIONALLY CHARACTERIZE BRAIN REGENERATION IN THE AXOLOTL (AMBYSTOMA MEXICANUM)**

**Speaker:** Deniz Demirkesenler (Austria)

**PS05-28AM-572**  
**ADENO-ASSOCIATED VIRUSES TO STUDY FORMATION AND REGENERATION OF NEURONAL CIRCUITS IN THE AXOLOTL**
**BRAIN**

**PS05-28AM-573**  
**THE ROLE OF MAP1B PROTEIN IN AXONAL REGENERATION**  
*Speaker:* Katharina Lust (Austria)

**PS05-28AM-574**  
**THE GROWTH CONE OF MIGRATING NEURONS AS A PRIMARY SENSOR AND MIGRATORY ACTUATOR IN THE INJURED BRAIN ENVIRONMENT**  
*Speaker:* Sonja Dumanovic (France)

**PS05-28AM-575**  
**UNDERSTANDING LZK-MEDIATED REACTIVE ASTROGLIOSIS AND NEURONAL REPAIR USING MOUSE MOLECULAR GENETICS AND TRANSCRIPTOMIC PROFILING**  
*Speaker:* Chikako Nakajima (Japan)

**PS05-28AM-576**  
**TEMPERATURE FLUCTUATIONS MODULATES AXONAL GROWTH IN NEURONS THROUGH THE ACTIVATION OF TRPV4 RECEPTOR**  
*Speaker:* Sarra Zaghbouni (Belgium)

**PS05-28AM-577**  
**RECONSTRUCTING THE NEURAL ARCHITECTURE OF THE CNIDARIAN NEMATOSTELLA VECTENSIS TO UNDERSTAND EVOLUTION OF THE NERVOUS SYSTEM**  
*Speaker:* Abhishek Mishra (Austria)

**PS05-28AM-578**  
**A HIGH-RESOLUTION IN VIVO DRUG-SCREEN IN ZEBRAFISH TO INVESTIGATE HOW MYELINATED AXONS GROW IN DIAMETER.**  
*Speaker:* Maria Eichel-Vogel (Germany)

**PS05-28AM-579**  
**THE ROLE OF MAP6 IN AXONAL REGENERATION**  
*Speaker:* Gauthier Billaut (France)

**PS05-28AM-580**  
**ADENO-ASSOCIATED VIRAL TOOLS TO TRACE NEURAL DEVELOPMENT AND CONNECTIVITY ACROSS AMPHIBIANS**  
*Speaker:* Georgiy Ivanian (Austria)

**Poster Sessions**

**Poster Session 05 - Section 175**

**PS05-28AM-369**  
**METHYLCOBALAMIN PROMOTES RAS-MEDIATED AKT PHOSPHORYLATION TO INDUCE ANTI-INFLAMMATORY PHENOTYPE IN MACROPHAGES FOLLOWING PERIPHERAL NERVE INJURY: A RAT MODEL STUDY**  
*Speaker:* Toru Iwahashi (Japan)

**PS05-28AM-370**  
**METHYLCOBALAMIN PROMOTES ANGIogenesis AFTER PERIPHERAL NERVE INJURY.**  
*Speaker:* Yoshiaki Yoshimura (Japan)

**PS05-28AM-371**  
**EFFECTS OF METHYLCOBALAMIN ON BONE FORMATION VIA PERIPHERAL NERVES AND MACROPHAGES.**  
*Speaker:* Toshihiko Shimada (Japan)

**PS05-28AM-372**  
**PLASTIC CHANGES OF NEURONS AND PERICELLULAR SYNAPSES IN SPINAL CORD AFTER PERIPHERAL NERVE INJURY**  
*Speaker:* Katsuyuki Konishi (Japan)

**PS05-28AM-373**  
**METFORMIN INHIBITS OROFACIAL NEUROPATHY THROUGH P-AMPK/P-MTOR-MEDIATED P-P38 MAPK ACTIVATION IN STREPTOZOTOCIN- INDUCED DIABETIC NEUROPATHIC MICE.**  
*Speaker:*JIHEE YEO (Korea, Republic of)

**PS05-28AM-374**  
**THE EFFECT OF DIABETES ON MYELIN HOMEOSTASIS**  
*Speaker:* Melvin Alappat (Switzerland)
PS05-28AM-375 - THE ROLE OF OLIGODENDROCYTES IN PAINFUL DIABETIC NEUROPATHY
Speaker: Marta Mazurkiewicz (Switzerland)

PS05-28AM-376 - IN VITRO STUDYING OF THE ROLE OF MIRNAS IN NEURONAL INJURY AND REGENERATION
Speaker: Maria Peteinareli (Austria)

PS05-28AM-377 - HYDROGEN-SULFIDE-DEPENDENT SCHWANN CELL DIFFERENTIATION DURING WALLERIAN DEGENERATION: MULTI-Omics APPROACH
Speaker: Na Young Jeong (Korea, Republic of)

PS05-28AM-378 - DIFFERENTIAL ROLES FOR DYSREGULATED MICRORNAs AFTER A PERIPHERAL NERVE INJURY IN NEUROPATHIC PAIN OR NERVE REGENERATION
Speaker: Theodora Kalpachidou (Austria)

PS05-28AM-379 - CHEMOTHERAPY-INDUCED PERIPHERAL NEUROPATHY CAUSED BY VINCRISTINE INVOLVES HIGH MOBILITY GROUP BOX 1 (HMGB1) RELEASED FROM MACROPHAGES AND SCHWANN CELLS
Speaker: Fumiko Sekiguchi (Japan)

PS05-28AM-380 - MYELINATING SCHWANN CELL ALTERATIONS IN THE SCIATIC NERVE OF DYSTROPHIC MDX MICE SUGGEST A POTENTIAL IMPACT ON THE SENSORy-MOTOR CONTROL OF DYSTROPHIC MUSCLES
Speaker: Silvia di Nuzzo (Italy)

PS05-28AM-381 - AN IN VITRO EVALUATION ON THE POSSIBLE ROLE OF VITAMIN B12 IN NEURONAL RECOVERY AND NEURONAL HOMEOSTASIS
Speaker: Aimee Rachel Mathew (Italy)

PS05-28AM-382 - DEVELOPING DOUBLE STRANDED RNAs TO EFFICIENTLY SUPPRESS EXPRESSION OF T-TYPE Ca²⁺ CHANNELS FOR TREATING DIABETIC NEUROPATHY
Speaker: Pavel Belan (Ukraine)

PS05-28AM-383 - THE EFFECT OF BIOCELLULOSE GRAFT AND VASCULAR ENDOTHELIAL GROWTH FACTOR ON ANGIoGENESIS IN EXPERIMENTAL SCIATIC NERVE INJURY
Speaker: Nermin Yasinoglu (Turkey)

PS05-28AM-384 - TISSUE PLASMINOGEN ACTIVATOR (TPA) CONTRIBUTES TO PERIPHERAL REMYELINATION AFTER SCIATIC NERVE INJURY
Speaker: Elsa Pouettre (France)

PS05-28AM-385 - INTERLEUKIN-33 AS A PLAYER IN AXON REMYELINATION IN RESPONSE TO CNS AND PNS INJURY.
Speaker: Malgorzata Zawadzka (Poland)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 0
PS05-28AM-592 - EYEBLINK PATTERNS IN SIMULATED SPORTS DRIVING: THE IMPACT OF DRIVING PERFORMANCE, EYEBLINK RATE, AND INDIVIDUAL FACTORS
Speaker: Ryota Nishizono (Japan)

PS05-28AM-593 - ROLE OF TESTOSTERONE AND CORTISOL IN FORMULA CAR DRIVERS FOR ACHIEVING HIGH PERFORMANCE IN A REAL COMPETITIVE SITUATION
Speaker: Yuuki Ooishi (Japan)
PS05-28AM-594  RELATIONSHIP OF AUTONOMIC CARDIAC CONTROL AND OCCIPITAL THETA POWER WITH COMPETITIVE PERFORMANCE IN ELITE FREESTYLE SNOWBOARDERS

Speaker: SEIJI MATSUMURA (Japan)

PS05-28AM-595  BLINK, AND MISS IT: THE DYNAMICS OF PUPILLARY RESPONSE DISTINGUISHES ‘ATTENTIONAL BLINK’ IN RAPID STREAM OF INFORMATION

Speaker: Supriya Ray (India)

PS05-28AM-596  THE SHORT AND LONG OF MOTOR PRACTICE SESSIONS: EQUAL PERFORMANCE GAINS BUT DIFFERENT "HOW TO” KNOWLEDGE

Speaker: Gil Leizerowitz (Israel)

Poster Sessions
09:30 - 13:00

Poster Session 05

Poster Session 05 - Section 110

PS05-28AM-105  A ROLE FOR INTEROCEPTIVE VGLUT2-EXPRESSING NEURONS IN THE JUGULAR-NODOSE GANGLION OF THE LEFT VAGUS NERVE IN THE REGULATION OF SLEEP ARCHITECTURE AND SPECTRAL COMPOSITION

Speaker: Laura Fernandez (Switzerland)

PS05-28AM-106  NORADRENERGIC LOCUS COERULEUS ACTIVITY FUNCTIONALLY PARTITIONS NREM SLEEP TO GATEKEEP THE NREM-REM SLEEP CYCLE

Speaker: Georgios Foustoukos (Switzerland)

PS05-28AM-107  EXPLORING NORADRENERGIC SIGNALING AND SLEEP PATTERNS IN PRODROMAL STAGES OF ALZHEIMER’S DISEASE MOUSE MODELS

Speaker: Paola Milanese (Switzerland)

PS05-28AM-108  INTERACTIONS OF A SLEEP-CONTROL CENTRE WITH A NEURAL CIRCUIT USED FOR NAVIGATION

Speaker: Lea Ballenberger (United Kingdom)

PS05-28AM-109  MUTATIONS IN POTASSIUM CHANNEL BETA SUBUNITS PERTURB SLEEP STATE TRANSITIONS IN MICE

Speaker: Haram Park (United Kingdom)

PS05-28AM-110  MITOCHONDRIAL ORIGINS OF SLEEP PRESSURE CONTROL

Speaker: Raffaele Sarnataro (United Kingdom)

PS05-28AM-111  A HALF-CENTRE OSCILLATOR ENCODES SLEEP NEED IN THE DROSOPHILA BRAIN

Speaker: Peter Hasenhuetl (United Kingdom)

PS05-28AM-112  DOES SLEEP PROTECT AGAINST OXIDATIVE STRESS?

Speaker: Alina Krebbers (United Kingdom)

PS05-28AM-113  Kᵥ CHANNELS INTEGRATE SLEEP PRESSURE IN A VOLTAGE-GATED LIPID PEROXIDATION MEMORY

Speaker: Hans Olof Rorsman (United Kingdom)

PS05-28AM-114  NEURAL AND BEHAVIORAL ORGANIZATION OF RAPID EYE MOVEMENT SLEEP IN ZEBRAFISH

Speaker: Vikash Choudhary (Germany)
PS05-28AM-115  **PONTINE ASTROCYTE ACTIVATION SUPPRESSES RAPID EYE MOVEMENT SLEEP**
_Speaker_: Lucy Morton (United Kingdom)

PS05-28AM-116  **STATE DEPENDENCE OF PONTINE ASTROCYTE CALCIUM DYNAMICS ACROSS SLEEP-WAKE CYCLES**
_Speaker_: Yuri Elias Rodrigues (United Kingdom)

PS05-28AM-117  **EFFECTS OF CHEMOGENETIC INHIBITION OF MESOPONTINE CHOLINERGIC NEURONS ON REM SLEEP AND PGO WAVES IN MICE**
_Speaker_: Erin Moran (United Kingdom)

PS05-28AM-118  **EFFECTS OF CHEMOGENETIC INHIBITION OF MESOPONTINE CHOLINERGIC NEURONS ON REM SLEEP AND PGO WAVES IN MICE**
_Speaker_: Ern Moran (United Kingdom)

PS05-28AM-119  **STATE DEPENDENCE OF PONTINE ASTROCYTE CALCIUM DYNAMICS ACROSS SLEEP-WAKE CYCLES**
_Speaker_: Yuri Elias Rodrigues (United Kingdom)

PS05-28AM-120  **IDENTIFICATION OF A SUBPOPULATION OF NEURONS IN THE BRAINSTEM PONS WHOSE ACTIVATION INCREASES NREM SLEEP**
_Speaker_: Ami Kaneko (Japan)

PS05-28AM-121  **ELECTROPHYSIOLOGICAL RECORDING OF THE ACTIVITY OF A NOVEL SUBTYPE OF REM SLEEP REGULATING NEURONS ACROSS THE SLEEP/WAKE CYCLE**
_Speaker_: Yoshifumi Arai (Japan)

PS05-28AM-122  **RAPID EYE MOVEMENT SLEEP IS INITIATED BY BASOLATERAL AMYGDALA DOPAMINE SIGNALING IN MICE**
_Speaker_: Emi Hasegawa (Japan)

PS05-28AM-123  **CROSSTALK BETWEEN THE SUBICULUM AND SLEEP-WAKE REGULATION: A PRELIMINARY STUDY**
_Speaker_: Sadegh Rahimi (Austria)

PS05-28AM-124  **CHARACTERIZING SLEEP IN A 22Q11.2 DELETION MOUSE MODEL OF PSYCHIATRIC DISORDERS**
_Speaker_: Julia Berger (Denmark)

PS05-28AM-125  **THE ROLE OF HIPPOCAMPAL ASTROCYTES IN SLEEP**
_Speaker_: Cecilie Nome (Norway)

PS05-28AM-126  **NEOCORTICAL LONG-RANGE INHIBITORY NEURONS COORDINATE STATE-DEPENDENT NETWORK SYNCHRONIZATION AND PROMOTE SLEEP**
_Speaker_: Geoffrey Terral (United States)

PS05-28AM-127  **MODULATION OF NREM SLEEP BY CORTICOTROPIN-RELEASING HORMONE THROUGH THE THALAMIC RETICULAR NUCLEUS**
_Speaker_: Simone Astori (Switzerland)

PS05-28AM-128  **BOTH ABLATION AND ACTIVATION OF THE PREOPTIC AREA CAUSE SLEEP FRACTIONATION.**
_Speaker_: Ayako Imamura (Japan)

PS05-28AM-129  **SLEEP-SPINDLE TRIGGERED CLOSED-LOOP NEUROMODULATION OF PATHOLOGICAL ANXIETY IN RATS**
_Speaker_: Andrea Pejin (Hungary)

PS05-28AM-130  **GLUTAMATERGIC NEURONS IN THE SUBTHALAMIC NUCLEUS REGULATE AROUSAL AND REM SLEEP**
_Speaker_: Sara Wong (United Kingdom)

**EFFECT OF OPEN-LOOP AUDITORY STIMULUS DURING NREM SLEEP AMONG YOUTH & GERIATRIC SUBJECTS: A COMPARATIVE NAP STUDY**
Scientific programme

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Speaker: Safoora Naaz (India)
PS05-28AM-131 CHEMOGENETIC ACTIVATION OF THALAMIC SUBNUCLEI DISTINCTIVELY IMPAIRS SLEEP PHYSIOLOGY.

Speaker: Philipp Janz (Switzerland)
PS05-28AM-132 DECODING SLEEP PATTERNS: UNRAVELING TEMAZEPAM IMPACT THROUGH BENDR ENCODER AND ITS LATENT SPACE ANALYSIS

Speaker: Julia Jakubowska (Poland)
PS05-28AM-133 EXPLORING THE NEUROPROTECTIVE EFFECT OF AUDITORY ENHANCED SLOW-WAVE SLEEP IN A MOUSE MODEL OF ALZHEIMER’S DISEASE

Speaker: Inês Dias (Switzerland)
PS05-28AM-134 FEEDBACK OF BLOOD CORTICOSTERONE AND GLUCOSE LEVELS TO THE SUPRACHIASMATIC NUCLEUS

Speaker: Rudolf Buijs (Mexico)
PS05-28AM-135 EFFECTS OF PARTIAL LESIONS OF HYPOCRETIN NEURONS IN THE LATERAL HYPOTHALAMUS ON SLEEP IN RATS

Speaker: Mariia Lebedeva (Czech Republic)
PS05-28AM-136 SLEEP ARCHITECTURE IN C57BL/6 MICE PREDICTS ANXIOUS PHENOTYPES: TOWARDS A FIRST ROBUST ANIMAL MODEL FOR POSTOPERATIVE DELIRIUM

Speaker: Alp Altunkaya (Germany)
PS05-28AM-137 MELATONIN AND MELATONIN-DERIVED H₂S-CONTAINING COMPOUNDS ACT AS NEW KV7.4 ACTIVATORS

Speaker: Giorgio Belperio (Italy)
PS05-28AM-138 A REM-ACTIVE BASAL GANGLIA CIRCUIT THAT REGULATES ANXIETY

Speaker: Wei Ba (United Kingdom)
PS05-28AM-139 OREXIN RECEPTOR 2 HAS DUAL EXCITATORY AND INHIBITORY FUNCTIONS ON MCH NEURONS THAT MODULATE SLEEP AND METABOLISM

Speaker: Shuntaro Izawa (Germany)
PS05-28AM-140 LOCAL ACTIVATION OF RCB1 SUPPRESSES BURST FIRING OF NEURONS IN THE RETICULAR THALAMIC NUCLEUS.

Speaker: Alberto Alatorre (Mexico)
PS05-28AM-141 NEW CIRCUIT FOR RESPIRATORY DEPRESSION, ANESTHESIA AND SLOW WAVE OSCILLATIONS MU-OPIOIDS→MHB→IPN→DRN + PAG + MRN.

Speaker: Karin Vadovicova (Ireland)
PS05-28AM-142 STABILITY OF HYPOTHALAMIC NEURAL POPULATION ACTIVITY DURING SLEEP-WAKE STATES

Speaker: yudong yan (Switzerland)
PS05-28AM-143 COMMUNICATION BETWEEN THE SUPRACHIASMATIC NUCLEUS AND THE SUBPARAVENTRICULAR ZONE OF THE HYPOTHALAMUS

Speaker: FRANCESCA RAFFIN (United States)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 40
PS05-28AM-144 ROLE OF THE INTERNEURONS IN PREFRONTAL-BASED
ATTENTIONAL DYSFUNCTIONS IN NICOTINE ADDICTION

Speaker: Kevin Letort (France)

PS05-28AM-145 INVESTIGATING THE ROLE OF A5 CONTAINING NICOTINIC ACETYLCHOLINE RECEPTORS IN EATING DISORDERS

Speaker: Chloé Bouarab (France)

PS05-28AM-146 PRECISE SPATIOTEMPORAL PHOTORELEASE OF A SYSTEMICALLY ADMINISTERED CAGED NICOTINE AGONIST IN FREELY MOVING MICE

Speaker: Nicolas Guyon (France)

PS05-28AM-147 EXPRESSION AND FUNCTION OF BETA2-CONTAINING NICOTINIC ACETYLCHOLINE RECEPTORS IN SPECIFIC NEURONAL POPULATIONS IN THE PREFRONTAL CORTEX

Speaker: Helena Janickova (Czech Republic)

PS05-28AM-148 UNDERSTANDING THE INFLUENCE OF THE GUT MICROBIOME ON THE MESOLIMBIC SYSTEM AND ITS RESPONSE TO NICOTINE.

Speaker: Yago Pazos Boubeta (France)

PS05-28AM-149 NICOTINE BIASES MOTIVATIONAL VALENCE BY ALTERING BRAINSTEM CHOLINERGIC SIGNALS

Speaker: Renan Costa Campos (France)

PS05-28AM-150 COMBINED TREATMENT WITH THE GLYCINE TRANSPORTER-1-INHIBITOR ORG24598, VARENICLINE AND BUPROPION AS A NEW PHARMACOLOGICAL TREATMENT CONCEPT FOR ALCOHOL USE DISORDER

Speaker: Yasmin Olsson (Sweden)

PS05-28AM-151 NICOTINE EXPOSURE DURING ADOLESCENCE DISRUPTS THE DOPAMINERGIC CIRCUITRY IN THE VENTRAL TEGMENTAL AREA

Speaker: Daiana Rigoni (France)

PS05-28AM-152 A5 CONTAINING NICOTINIC ACETYLCHOLINE RECEPTORS ARE IMPORTANT MODULATORS OF AGGRESSIVE AND DOMINANT-LIKE BEHAVIORS IN RODENTS AND HUMANS

Speaker: Morgane Besson (France)

PS05-28AM-153 CHOLINERGIC REGULATION OF HEART EMPLOYS TWO CHOLINESTERASES WITH DISTINCT LOCALIZATION AND FUNCTIONS

Speaker: Anna Paul Hrabovska (Slovakia)

PS05-28AM-154 PRENATAL HYPOXIA, MATERNAL STRESS, AND THE IMPACT ON CHRNA7 GENE EXPRESSION: LINKING TO NICOTINE ADDICTION IN ADULT OFFSPRING

Speaker: Viktor Stratilov (Russian Federation)

PS05-28AM-155 THE HUMAN-SPECIFIC NICOTINIC RECEPTOR SUBUNIT CHRFAM7A (DUPA7) REDUCES A7 NACHR FUNCTION IN HUMAN IPSC-DERIVED AND TRANSGENIC MOUSE NEURONS

Speaker: Gokce Ilayda Gorgulu Soztekin (Austria)

PS05-28AM-156 ROLE OF NICOTINIC ACETYLCHOLINE RECEPTORS EXPRESSED BY CHOLINERGIC INTERNEURONS IN THE CONTROL OF STRIATAL ACTIVITY

Speaker: Amanda Barboza (Czech Republic)

PS05-28AM-157 KINETICS AND ASYNCHRONOUS PROPERTIES OF TWO DISTINCT NICOTINIC CURRENTS IN LAYER 1 OF PREFRONTAL CORTEX

Speaker: MohammadFoad Abazari (Canada)

PS05-28AM-158 UNRAVELLING THE ROLE OF PREFRONTAL ALPHA7 NICOTINIC
ACETYLCOLINE RECEPTORS IN INHIBITORY CONTROL IN PHYSIOLOGICAL AND PATHOLOGICAL CONTEXTS: A BEHAVIORAL INVESTIGATION USING TOUCHSCREEN TECHNOLOGY

Speaker: Gabriela Medeiros (France)

PS05-28AM-159 UNDERSTANDING THE NEUROBIOLOGICAL BASIS OF THE REWARDING PROPERTIES OF FLAVORED NICOTINE IN E-CIGARETTES

Speaker: Alice Minard (France)

PS05-28AM-160 NICOTINIC CHOLINERGIC MODULATION OF REGIONAL BLOOD FLOW RESPONSES IN THE OLFACTORIAL BULB AND NEOCORTEX TO TRIGEMINAL OLFACTORIAL STIMULATION

Speaker: Daichi Morihara (Japan)

PS05-28AM-161 UNDERSTANDING THE ROLE OF STRIATAL CHOLINERGIC INTERNEURONS IN REWARD AND MOTIVATION PROCESSING

Speaker: Suellen Almeida-Correa (Germany)

PS05-28AM-162 CHOLINERGIC MODULATION OF ATTENTIONAL PERFORMANCE ON A SIGNAL DETECTION TASK: PHARMACOLOGICAL MODULATION OF NICOTINIC AND MUSCARINIC RECEPTORS

Speaker: Harry Robson (United Kingdom)

PS05-28AM-163 VTA CIRCUITRY SUSTAINS OPPOSITE RESPONSES OF DOPAMINERGIC NEURONS TO DRUGS OF ABUSE

Speaker: Tinaïg Le Borgne (France)

PS05-28AM-164 CUE REACTIVITY IN ELECTRONIC CIGARETTE USERS IS UNRELATED TO SIGN-TRACKING PROPENSITY

Speaker: Polina Krom (United States)

PS05-28AM-165 DECODING OF FMRI RESTING-STATE USING TASK-BASED MVPA SUPPORTS THE INCENTIVE-SENSITIZATION THEORY IN SMOKERS

Speaker: Cindy Lor (Austria)

Poster Sessions

Poster Session 05 - Section 36

PS05-28AM-512 HIPPOCAMPAL REPLAY EVENTS ARE IMPAIRED IN A RAT MODEL OF FRAGILE X SYNDROME

Speaker: Margaret Donahue (United States)

PS05-28AM-513 IMPAIRED HIPPOCAMPAL CA2 PLACE CELL RESPONSES TO SOCIAL ODORS IN A RAT MODEL OF FRAGILE X SYNDROME

Speaker: Emma Robson (United States)

PS05-28AM-514 EXPLORING THE MOLECULAR AND MORPHO-FUNCTIONAL DIFFERENCES IN A KNOCK-IN MODEL OF FRAGILE X SYNDROME

Speaker: Isabel Chato Astrain (France)

PS05-28AM-515 LOCALISATION AND INTERACTOME ANALYSIS OF DYSTROPHIN ISOFORMS IN THE MOUSE BRAIN

Speaker: Konstantina Tetorou (United Kingdom)

PS05-28AM-516 UNRAVELING GLUTAMATERGIC DYSREGULATION IN RARβ NULL MICE STRIATAL SYNAPSES AND ITS IMPLICATIONS IN NEUROLOGICAL DISORDERS

Speaker: Hanna Semaan (France)

PS05-28AM-517 CONTROL OF NEURAL PRECURSOR CELLS PROLIFERATION AND DIFFERENTIATION BY THE FRAGILE X MESSENGER

Speaker: Cindy Lor (Austria)
RIBONUCLEOPROTEIN 1 (FMRP): INSIGHTS INTO THE ETIOLOGY OF FRAGILE X SYNDROME

**Speaker:** Olivier Dionne (Canada)

**PS05-28AM-518** COMPARATIVE STUDY OF SOCIAL BEHAVIOR IN SEVERAL MOUSE MODELS OF DUCHENNE MUSCULAR DYSTROPHY 09:30 - 09:30

**Speaker:** Léa Ceschi (France)

**PS05-28AM-519** ERBB INHIBITION RESCUES NIGRAL DOPAMINE NEURON HYPERACTIVITY AND REPEETITIVE BEHAVIORS IN A MOUSE MODEL OF FRAGILE X SYNDROME 09:30 - 09:30

**Speaker:** Ada Ledonne (Italy)

**PS05-28AM-520** SUMOYLATION TUNES ACTIN DYNAMICS IN DENDRITIC SPINES BY UNLOCKING THE AUTOINHIBITORY INTERACTION BETWEEN THE BAR AND GAP DOMAINS OF OPHN1 09:30 - 09:30

**Speaker:** Alessandra Folci (Italy)

**PS05-28AM-521** FOXG1 CONTROLS CELLULAR FUNCTION AND TISSUE ARCHITECTURE IN 2D NEURAL ROSETTES AND 3D CEREBRAL ORGANOID MODELS OF EPILEPSY 09:30 - 09:30

**Speaker:** Dwaipayyan Adhya (United Kingdom)

**PS05-28AM-522** CYFIP1 ASSOCIATES WITH Astrocytic Focal Adhesion, Distinct From CYFIP2: ANALYSIS OF PROTEIN INTERACTOME AND CELLULAR EXPRESSION PROFILING 09:30 - 09:30

**Speaker:** Ruiying Ma (Korea, Republic of)

**PS05-28AM-523** WHOLE-BRAIN PERINEURONAL NET AND PARVALBUMIN EXPRESSION ANALYSIS IN FRAGILE X SYNDROME MICE 09:30 - 09:30

**Speaker:** Lorenzo Cifarelli (Italy)

**PS05-28AM-524** FRAGILE-X-MESSENGER RIBONUCLEOPROTEIN MEDIATES BDNF-INDUCED UPREGULATION OF GLUN2B-CONTAINING NMDA RECEPTORS: ROLE IN LTP OF CA1 SYNAPSES 09:30 - 09:30

**Speaker:** Elisa Corti (Portugal)

**PS05-28AM-525** UNRAVELING THE INTERCONNECTED FUNCTIONS OF NEURODEVELOPMENTAL DISORDER-ASSOCIATED CYFIP2 FROM ACTIN DYNAMICS TO MEMBRANELESS ORGANELLES FORMATION AND PROTEIN SYNTHESIS REGULATION 09:30 - 09:30

**Speaker:** Hyae Rim Kang (Korea, Republic of)

**PS05-28AM-526** A MULTI-OMICS AND FUNCTIONAL INVESTIGATION OF BRAINS LACKING FULL-LENGTH DYSTROPHINS 09:30 - 09:30

**Speaker:** Joanna Pomeroy (United Kingdom)

**PS05-28AM-527** ROLE OF FMRP IN PRESYNAPTIC MECHANISMS AT DG-CA3 SYNAPSE. 09:30 - 09:30

**Speaker:** Simon Lecomte (France)

**PS05-28AM-528** CELLULAR RESPONSE TO OXIDATIVE STRESS AND SENESCENCE IN FMRI KNOCKOUT MICE MODELLING FRAGILE X SYNDROME 09:30 - 09:30

**Speaker:** Michela Spatuzza (Italy)

**PS05-28AM-529** CHARACTERIZATION OF ASD ASSOCIATED FOXP GENES IN NEURAL CIRCUIT FORMATION 09:30 - 09:30

**Speaker:** Hanna Yeliseyeva (Switzerland)

**PS05-28AM-530** IDENTIFICATION OF XK-RELATED PROTEIN 6 (XKR6) AS A NOVEL PRESYNAPTIC PROTEIN IN THE MAMMALIAN BRAIN 09:30 - 09:30

**Speaker:** Spyridon Thivaiovs (Germany)

**PS05-28AM-531** THE EFFECT OF IMPRINTED INHERITANCE ON EMBRYONIC MOUSE BRAIN DEVELOPMENT IN THE FMRI-KO PARENT DERIVED OFFSPRING 09:30 - 09:30
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<td>Speaker: Ursula Koch (Germany)</td>
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<td><strong>FOR MITOCOCHRONIAL DISEASE</strong></td>
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**Scientific programme**

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**Speaker:** Alessandro Chioino (Switzerland)

**PS05-28AM-499**  
THE EFFECT OF SECOND-GENERATION ANTIPSYCHOTICS ON MITOCHONDRIA AND THE DEVELOPMENT OF METABOLIC SYNDROME.  
09:30 - 09:30

**Speaker:** Katherine Mortimer (United Kingdom)

**PS05-28AM-500**  
MITOCHONDRIAL FISSION REGULATES REACTIVE ASTROCYTE RESPONSE TO ACUTE BRAIN INJURY  
09:30 - 09:30

**Speaker:** Abdulla Chihab (Germany)

**PS05-28AM-501**  
BDNF-INDUCED SYNAPTIC PLASTICITY: THE ROLE OF MITOCHONDRIAL FISSION  
09:30 - 09:30

**Speaker:** Filipe Duarte (Portugal)

**PS05-28AM-502**  
INVESTIGATING THE ROLE OF MITOCHONDRIAL REGULATOR ZC3H10 ON NEURONAL FUNCTION.  
09:30 - 09:30

**Speaker:** Meral Celikag (Italy)

**PS05-28AM-503**  
NEURONAL ACTIVITY INHIBITS AXONAL MITOCHONDRIAL TRANSPORT IN A REGION-SPECIFIC MANNER  
09:30 - 09:30

**Speaker:** Tom Venneman (Belgium)

**PS05-28AM-504**  
CAFFEINE TREATMENT DECREASES MAO-B EXPRESSION, NEURITE OUTGROWTH AND NEURITE BRANCHING IN IMMATURE RAT PRIMARY NEURONAL CELL CULTURES  
09:30 - 09:30

**Speaker:** Sara Bjurling (Sweden)

**PS05-28AM-505**  
ULTRASTRUCTURAL ANALYSIS REVEALS MITOCHONDRIAL PLACEMENT INDEPENDENT OF SYNAPSE PLACEMENT IN FINE CALIBER C. ELEGANS NEURONS.  
09:30 - 09:30

**Speaker:** Gregory Macleod (United States)

**PS05-28AM-506**  
ARE MITOCHONDRIA A MISSING LINK BETWEEN ARGINASE 2 LOSS AND HUNTINGTON’S DISEASE PATHOGENESIS?  
09:30 - 09:30

**Speaker:** Martyna Podgajna (Poland)

**PS05-28AM-507**  
LONGITUDINAL AUTOPHAGY PROFILING OF MAMMalian BRAIN CIRCUITS REVEALS DYNAMIC AND SUSTAINED MITOPHAGY THROUGHOUT HEALTHY AGING.  
09:30 - 09:30

**Speaker:** Anna Rappe (Finland)

**PS05-28AM-508**  
THE CROSSTALK BETWEEN THE EPIGENOME AND MITOCHONDRIA AS CENTRAL PLAYER IN NEURAL FATE DECISIONS OF THE AXOTOMIZED NEURONS AFTER SPINAL CORD INJURY  
09:30 - 09:30

**Speaker:** Sofia Nutarelli (Italy)

**PS05-28AM-509**  
INVESTIGATING THE AMPK-MFF PATHWAY TO MODULATE MITOCHONDRIAL DYNAMICS AS A TARGET FOR NEUROPROTECTION  
09:30 - 09:30

**Speaker:** Richard Seager (United Kingdom)

**PS05-28AM-510**  
INVESTIGATING THE ACUTE IMPACT OF SWEETENERS SUCRALOSE AND ACE-K ON ATP PRODUCTION AND MITOCHONDRIAL RESPIRATION IN THE HYPOTHALAMIC GT1-7 CELL LINE CHALLENGED WITH INCREASED GLUCOSE  
09:30 - 09:30

**Speaker:** Joulia Haydar (France)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 05 - Section 11**

**PS05-28AM-024**  
UNVEILING THE POTENTIAL OF HBK-15 AS A DUAL-ACTION DRUG CANDIDATE FOR MOOD AND COGNITION RESTORATION  
-
**IN MOUSE DEPRESSION MODEL**

**Speaker**: Kinga Sałaciak (Poland)

**PS05-28AM-025** - NLX-101, A 5-HT1A RECEPTOR BIASED AGONIST, ATTENUATES EXECUTIVE FUNCTIONS IMPAIRMENTS IN MICE

**Speaker**: Angelika Jagielska (Poland)

**PS05-28AM-026** - HBK-10, A MULTIMODAL COMPOUND, SELECTIVELY BLOCKS 5-HT1A RECEPTOR-MEDIATED β-ARRESTIN RECRUITMENT AND MITIGATES MEMORY DEFICITS IN MICE

**Speaker**: Klaudia Lustyk (Poland)

**PS05-28AM-027** - HBK-15 RESCUES RECOGNITION MEMORY IN MK-801- AND STRESS-INDUCED COGNITIVE IMPAIRMENTS IN FEMALE MICE

**Speaker**: Aleksandra Koszalka (Poland)

**PS05-28AM-028** - HBK-15, A MULTIMODAL COMPOUND, MITIGATES COGNITIVE FLEXIBILITY DEFICITS IN MICE

**Speaker**: Oluwatobi Adeyemo (Poland)

**PS05-28AM-029** - LEVERAGING PHARMACOGENOMIC ENRICHMENT SCORE TO PREDICT TREATMENT OUTCOMES IN DRUG-NAÏVE PATIENTS WITH MAJOR DEPRESSIVE DISORDER

**Speaker**: Hui Hua Chang (Taiwan)

**PS05-28AM-030** - ETHANOL EXTRACT OF VANILLA PLANIFOLIA STEM REDUCED PAK6 EXPRESSION AND INDUCED CELL DEATH IN GLIOBLASTOMA CELLS

**Speaker**: Yuan-Shuo Hsueh (Taiwan)

**PS05-28AM-031** - AN ALTERNATIVE TO TREAT DEPRESSION-LIKE BEHAVIORS: THE EFFECTS OF S-MECAMYLAMINE IN THE DORSAL RAPHE NUCLEUS

**Speaker**: Andrea Mondragon Garcia (Mexico)

**PS05-28AM-032** - SCHINUS TEREBINTHIFOLIA LEAF LECTIN (STELL) ATTENUATES IMMOBILITY AND ANXIogenic BEHAVIOR IN MICE THROUGH MODULATION OF MONOAMINERGIC SIGNALING

**Speaker**: Michelle da Rosa (Brazil)

**PS05-28AM-033** - ANTI-DEPRESSANT LIKE EFFECT OF CURCUMIN IN OLFACTORY BULLECTOMIZED MODEL OF DEPRESSION IN MALE WISTAR ALBINO RATS: ANTIDEPRESSANT BEHAVIOUR SCREENING TESTS

**Speaker**: Sandip Shah (Nepal)

**PS05-28AM-034** - INVESTIGATION OF GABAERGIC SYSTEM IN TREATMENT-RESISTANT DEPRESSION-RELATED COGNITIVE DECLINE IN DIFFERENT AGE

**Speaker**: Chi-Wei Lee (Taiwan)

**PS05-28AM-035** - ADINAZOLAM, A BENZODIAZEPINE-TYPE NEW PSYCHOACTIVE SUBSTANCE, PRODUCES REINFORCEMENT AND DEPENDENCE IN RODENTS

**Speaker**: Choon Gon Jang (Korea, Republic of)

**PS05-28AM-036** - TYROSINE, A NON-ESSENTIAL AMINO ACID, HAS ANTI-DEPRESSIVE PROPERTIES IN CHRONIC IMMOBILIZATION STRESS-INDUCED MOUSE DEPRESSION MODEL

**Speaker**: Hyun Joon Kim (Korea, Republic of)

**PS05-28AM-037** - THE ROLE OF NORADRENALINE IN MEDIAL FOREBRAIN BUNDLE DEEP BRAIN STIMULATION: A PHYSIOLOGICAL AND ANATOMICAL APPROACH

**Speaker**: Zhuo Duan (Germany)
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<td>Ping Lin Tsai (Taiwan)</td>
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<td><strong>THE CIRCADIAN MOLECULAR CLOCK IN MPFC MODULATES THE DEPRESSIVE PHENOTYPE AND REPRESENT A POTENTIAL TREATMENT PATHWAY</strong></td>
<td>David Sarrazin (France)</td>
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<td>Sonata Suk-yu Yau (Hong Kong)</td>
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<td><strong>DIFFERENCES BETWEEN FIRST- AND SECOND-GENERATION ANTIDEPRESSANTS AND MODULATION OF AFFECTIVE BIASES IN LISTER HOODED RATS</strong></td>
<td>Katie Kamenish (United Kingdom)</td>
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<td><strong>ASSESSING THE THERAPEUTIC POTENTIAL OF ANTIDEPRESSANT AND ANTI-INFLAMMATORY DRUGS IN AN INFLAMED DEPRESSION MOUSE MODEL: A COMPARATIVE STUDY OF EFFICACY</strong></td>
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<td><strong>CHEMOGENETIC STIMULATION OF THE PREFRONTAL CORTEX EXERTS ANTIDEPRESSANT EFFECT IN A MOUSE MODEL OF DEPRESSION.</strong></td>
<td>Maxime Veleanu (Germany)</td>
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<td><strong>ACUTE AND CHRONIC TREATMENT WITH THE NITRIC OXIDE SYNTHASE INHIBITOR AGMATINE STIMULATES SEROTONERGIC NEURONS IN THE RAT DORSAL RAPHE NUCLEUS.</strong></td>
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<td><strong>ESCITALOPRAM AND GALANTAMINE IN COMBINATION MODULATE ALPHA-7 NICOTINIC RECEPTOR AND AMELIORATE CHRONIC UNPREDICTABLE MILD STRESS-INDUCED DEPRESSION-LIKE BEHAVIOUR IN MICE</strong></td>
<td>Shivanshu Bajaj (India)</td>
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<td><strong>SINGLE ADMINISTRATION OF FOCUSED ULTRASOUND-MEDIATED BLOOD-BRAIN BARRIER OPENING IS ANTIDEPRESSANT WITH CLAUDIN-5 REMODELING</strong></td>
<td>Moshe Willner (United States)</td>
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<td><strong>SYNERGISTIC EFFECTS OF INTRANASALLY ADMINISTERED GALR2 AND Y1R AGONISTS ON COGNITIVE AND MOOD-RELATED</strong></td>
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BEHAVIORS IN ADULT RATS: IMPLICATIONS FOR NEURODEGENERATIVE AND MOOD DISORDERS

Speaker: Manuel Narvaez Pelaez (Spain)

PS05-28AM-052  BUTYRYLCHOLINESTERASE AS A POTENTIAL BIOMARKER FOR DEPRESSION: INSIGHTS FROM A TRANSLATIONAL STUDY

Speaker: Berkan Bozkurt (Turkey)

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09:30 - 13:00

Poster Session 05 - Section 61

PS05-28AM-289  RECEPTOR PROTEIN TYROSINE PHOSPHATASE Β/Ζ REGULATES HIGH FAT DIET-INDUCED DELETERIOUS COGNITIVE EFFECTS AND AB PLAQUE FORMATION IN APP/PS1 MICE

Speaker: Teresa Fontán-Baselga (Spain)

PS05-28AM-290  PLEIOTROPIN: A BRIDGE BETWEEN OBESITY AND NEURODEGENERATIVE DISORDERS PROMOTING MEMORY LOSS AND GLIAL ALTERATIONS BY MODULATING NEUROINFLAMMATION AND PERINEURONAL NETS

Speaker: Héctor Canéque-Rufo (Spain)

PS05-28AM-291  LIFELONG CONSUMPTION OF SATURATED AND UNSATURATED FATS INDUCED THE IMPAIRMENT OF HIPPOCAMPAL SYNAPTIC PLASTICITY AND SPATIAL LEARNING AND MEMORY

Speaker: Ana Belén Sanz-Martos (Spain)

PS05-28AM-292  Δ9-TETRAHYDROCANNABINOL MODULATES ADDICTIVE BEHAVIOUR INDUCED BY SATURATED AND UNSATURATED HIGH FAT DIETS IN AN ANIMAL MODEL OF OPERANT SELF-ADMINISTRATION

Speaker: María Roca (Spain)

PS05-28AM-293  LIFELONG EXPOSURE TO HIGH FAT DIET LEADS TO DEPRESSIVE LIKE PHENOTYPE ASSOCIATED WITH INCREASED CENTRAL AMYLOID OLIGOMER FORMATION

Speaker: Maria Grazia Morgese (Italy)

PS05-28AM-294  DIETARY INTERVENTION WITH OMEGA-3 FATTY ACIDS MITIGATES MATERNAL HIGH-FAT DIET-INDUCED DEPRESSION-LIKE PHENOTYPE AND MYELIN-RELATED CHANGES IN RAT OFFSPRING

Speaker: Irena Smaga-Maślanka (Poland)

PS05-28AM-295  IMPLICATION OF POLYUNSATURATED FATTY ACID (PUFA) BIOSTATUS IN DOPAMINE TRANSMISSION-RELATED REWARD PROCESSING DEFICITS

Speaker: Lola Hardt (France)

PS05-28AM-296  MATERNAL CONSUMPTION OF A HIGH-FAT DIET FROM PRE-PREGNANCY TO LACTATION IMPAIRS COGNITIVE PROCESSES AND INHIBITORY SYNAPTIC TRANSMISSION OF HIPPOCAMPAL NEURONS IN MOUSE OFFSPRING.

Speaker: Camila Cerna (Chile)

PS05-28AM-297  INVESTIGATING NEUROINFLAMMATION IN THE ACTIVITY-BASED ANOREXIA (ABA) MODEL

Speaker: Carlotta Siddi (Italy)

PS05-28AM-298  EFFECTS OF INTERMITTENT FASTING ON NEUROINFLAMMATION AND COGNITIVE IMPAIRMENT IN HIGH-FAT DIET-FED MICE

Speaker: GU SEOB ROH (Korea, Republic of)
PS05-28AM-299  DIETARY FATTY ACID COMPOSITION DRIVES NEUROINFLAMMATION AND IMPAIRED BEHAVIOR IN OBESITY
Speaker: Clara Sanchez (France)

PS05-28AM-300  A GESTATIONAL KETOCENIC DIET ALTERS BRAIN WIRING AND LEADS TO SEX-SPECIFIC AND AUTISM-LIKE BEHAVIOR IN THE OFFSPRING OF ADULT MICE
Speaker: Diana Zala (France)

PS05-28AM-301  UNRAVELING THE "METABOLIC SYNDROME AND COGNITIVE DECLINE" DETERIMENTAL LOOP: WHAT ROLE FOR MEDITERRANEAN PHYTONUTRIENTS?
Speaker: Giuditta Gambino (Italy)

PS05-28AM-302  WESTERN DIET ADMINISTRATION IN AGED MICE RESULTS IN SEX-DEPENDENT COGNITIVE AND METABOLIC DYSFUNCTION: PREVENTIVE ROLE OF ROSMARINIC ACID
Speaker: Letizia Giona (Italy)

PS05-28AM-303  MATERNAL HIGH-FAT DIET DISRUPTS HIPPOCAMPAL EXCITATION-INHIBITION BALANCE IMPAIRING COGNITIVE FUNCTION SELECTIVELY IN ADULT FEMALE MOUSE OFFSPRING
Speaker: Chiara Musillo (Italy)

PS05-28AM-304  THE IMPACT OF HIGH FAT DIET ON MICROGLIAL CELLS AND SOCIAL BEHAVIOR IN MICE: IMPLICATIONS FOR DIET-INDUCED CHANGES IN BRAIN FUNCTION
Speaker: Sara Cornuti (Italy)

PS05-28AM-305  DIET-INDUCED MAFLD: UNRAVELING LIVER-BRAIN AXIS ALTERATIONS AND THERAPEUTIC POTENTIAL OF COMBINED OLHHA AND LIRAGLUTIDE TREATMENT
Speaker: Marialuisa de Ceglia (Italy)

PS05-28AM-306  DIFFERENTIAL MODULATION OF THE ENDOCANNABINOID SYSTEM IN BINGE EATING DISORDER AND OBESITY
Speaker: Romain Bourdy (France)

PS05-28AM-307  INTERMITTENT ACCESS TO A HIGH-FAT DIET BLOCKS THE INCREASE IN ETHANOL CONSUMPTION AND THE NEUROINFLAMMATORY RESPONSE INDUCED BY SOCIAL DEFEAT IN ADULT MALE MICE
Speaker: Carmen Manzanedo (Spain)

PS05-28AM-308  DREAM PROTEIN INHIBITION AS A POTENTIAL TREATMENT AGAINST NAFLD AND METABOLIC SYNDROME AND ITS ASSOCIATED NEUROLOGIC SIGNS IN MICE.
Speaker: José Manuel Hernández Curiel (Spain)

PS05-28AM-309  EFFECTS OF FLAVONOIDS ON ADIPOSE TISSUE/MICROGLIA CROSS-TALK
Speaker: Roberta Alessi (Italy)

PS05-28AM-310  LASTING EFFECTS OF EARLY DIETARY INTERVENTION WITH DIFFERENT 06/03 POLYUNSATURATED FATTY ACIDS RATIOS IN AN ANIMAL MODEL OF ALZHEIMER’S DISEASE
Speaker: Emmy Hoeksema (Netherlands)

PS05-28AM-311  ADIPOSE TISSUE AND ADIPOKINE VARIATIONS ARE LINKED TO STRUCTURAL GRAY AND WHITE MATTER CHANGES
Speaker: Liana Okudzhava (Germany)

PS05-28AM-312  EXPOSURE TO A HIGH-FAT DIET DURING ADOLESCENCE AFFECTS THE MU OPIOID RECEPTOR GENE EXPRESSION IN THE LATERAL SEPTUM OF ADULT RATS
Speaker: Victoria Velásquez (Chile)
PS05-28AM-313  NEWLY SYNTHESIZED FATTY ACID ANALOGUE (NKS-3) RESCUES MICROGLIAL REACTIVITY IN A MURINE MODEL OF DIET-INDUCED OBESITY
Speaker: Lucas Jantzen (France)

PS05-28AM-314  SWEET FAT: A RECIPE FOR BRAIN FOG. DIETARY FAT AND SUGAR IMPAIR COGNITIVE FUNCTIONS IN MICE.
Speaker: Jakub Chwastek (Poland)

PS05-28AM-315  COMPARING WESTERN DIET AND LPS AS INFLAMMATION-RELATED RISK FACTORS OF SPORADIC ALZHEIMER’S DISEASE
Speaker: Justyna Domanska (Poland)

PS05-28AM-316  HIGH-FAT DIET MOUSE MODEL: EFFECT ON ANXIOUS/DEPRESSIVE-LIKE PHENOTYPE AND THE IMPACT OF GENDER
Speaker: Júlia Senserrich Guerrero (Spain)

PS05-28AM-317  COMBATING DIET-INDUCED INFLAMMATION: CAN MELANOTROPIN RECEPTORS MITIGATE THE EFFECTS OF EXCESS FAT?
Speaker: Anna Kiryk (Poland)

PS05-28AM-318  UNRAVELING THE IMPACT OF HIGH-CALORIC DIETS ON JUVENILE RAT HIPPOCAMPAL GABAERGIC SYSTEM, NEUROGENESIS, AND ASTROCYTE MORPHOLOGY
Speaker: Bárbara Mota (Portugal)

PS05-28AM-386  ON THE WAY TO LAYER-BY-LAYER INFRARED NEUROMODULATION: PRESENTATION AND FUNCTIONAL CHARACTERISATION OF AN INTRACORTICAL OPTRODE NEEDLE FEATURED WITH A MICROMIRROR TIP ENDING
Speaker: Ágoston Csaba Horváth (Hungary)

PS05-28AM-387  LOW-FREQUENCY CORTICAL ACTIVITY CHANGES GENERATED BY CONTINUOUS WAVE INFRARED NEUROMODULATION RECORDED WITH AN INTRACORTICAL OPTRODE DURING ANESTHESIA
Speaker: Ágnes Szabó (Hungary)

PS05-28AM-388  A NOVEL 3D-PRINTED MICRO-DRIVE SYSTEM FOR INFRARED NEUROMODULATION AND ELECTROPHYSIOLOGICAL RECORDING IN FREELY ROAMING RODENTS
Speaker: Ákos Mórocz (Hungary)

PS05-28AM-389  CELL- AND LAYER-TYPE SPECIFIC INTRACORTICAL EFFECTS OF PULSED AND CONTINUOUS WAVE INFRARED NEURAL STIMULATION REVEALED BY HIGH-DENSITY LAMINAR RECORDINGS IN THE RAT NEOCORTEX
Speaker: Zsófia Balogh-Lantos (Hungary)

PS05-28AM-390  IMPROVING THE FUNCTIONALITY OF MICROSCALE ELECTRODES IMPLANTED IN NEURAL TISSUE WITH UPCONVERTING NANOPARTICLES
Speaker: Levente Víg (Hungary)

PS05-28AM-391  MAGNETIC DETECTION ELECTRICAL IMPEDANCE TOMOGRAPHY (MDEIT) FOR NON-INVASIVE NEURAL IMAGING
Speaker: Kai Mason (United Kingdom)

PS05-28AM-392  WIRELESS DEEP BRAIN STIMULATION WITH MAGNETOELECTRIC NANOPARTICLE-BASED
**NEUROMODULATION APPROACH**

**Speaker:** Chao-Chun Cheng (Taiwan)

**PS05-28AM-393** MODULATION OF NEURONAL ACTIVITY VIA PLASMONIC NANOPARTICLES

**Speaker:** Ane Escobar (Spain)

**PS05-28AM-394** A NOVEL NEURAL STIMULATION MECHANISM ON CELLULAR LEVEL WITHOUT FARADAI CURRENT

**Speaker:** Bingdong Chang (Denmark)

**PS05-28AM-395** UPCONVERSION-MEDIATED TRANSCRANIAL OPTOGENETICS: JUGGLING WITH PHOTONS TO CONTROL FEAR IN MICE

**Speaker:** Jeremy Lesas (France)

**PS05-28AM-396** PHOTO-CONTROLLED RELEASE OF BIOACTIVE MOLECULES IN THE BRAIN

**Speaker:** Clémentine Bosch Bouju (France)

**PS05-28AM-397** DEVELOPMENT OF A NEXT-GENERATION BIDIRECTIONAL NEUROBIOHYBRID INTERFACE WITH OPTIMIZED ENERGY EFFICIENCY ENABLING REAL-TIME ADAPTIVE NEUROMODULATION.

**Speaker:** Christel Vanbesien (France)

**PS05-28AM-398** LONG-TERM IMPLANTATION AND CORTICAL STIMULATION WITH PHOTOACTIVE ORGANIC SEMICONDUCTORS IN A RAT MODEL

**Speaker:** Marta Nowakowska (Austria)

**PS05-28AM-399** DEVELOPMENT AND TESTING OF A NOVEL, WIRELESSLY POWERED TELEMETRY FOR SIMULTANEOUS OPTOGENETIC STIMULATION AND EEG RECORDING IN ADULT WISTAR RATS.

**Speaker:** Bethan Rees (United Kingdom)

**PS05-28AM-400** WIRELESS HEADSTAGE CONTROLLED VIA BLUETOOTH FOR CLOSED-LOOP OPTOGENETICS EXPERIMENTS IN RODENTS

**Speaker:** Patricia Silva (Portugal)

**PS05-28AM-401** SHINING LIGHT ON COMPOUND ACTION POTENTIAL RECORDING AND ELECTRICAL IMPEDANCE TOMOGRAPHY FOR THE CLOSED-LOOP CONTROL OF BIOELECTRONIC DEVICES

**Speaker:** Esrea Neufeld (Switzerland)

**PS05-28AM-402** HIGH-FREQUENCY, SINUSOIDAL BURSTS ACTIVATE NERVE FIBERS IN THE EARTHWORM

**Speaker:** Philipp Schnepel (Netherlands)

**PS05-28AM-403** LOCAL FIELD POTENTIAL OF INTRANEURAL RECORDINGS AS A PROXY OF VAGAL UNMYELINATED ACTIVITY: AN IN-SILICO STUDY

**Speaker:** Claudio Verardo (Italy)

**PS05-28AM-404** SOLID STATE NANOPORES FOR SPATIALLY RESOLVED CHEMICAL NEUROMODULATION

**Speaker:** Francesca Vacca (Italy)

**PS05-28AM-405** EFFECTIVE NONINVASIVE NEURONAL WAVEFORM MODULATION WITH SUSTAINED AND ACTIVITY-DEPENDENT CONTINUOUS-WAVE NEAR-INFRARED LASER STIMULATION

**Speaker:** Alicia Garrido-Peña (Spain)

**PS05-28AM-406** AN IMPLANTABLE DEVICE FOR WIRELESS MONITORING OF DIVERSE PHYSIO-BEHAVIORAL CHARACTERISTICS IN FREELY BEHAVING SMALL ANIMALS AND INTERACTING GROUPS

**Speaker:** Cameron Good (United States)
PS05-28AM-407 NEUROMODULATION WITH DBS AND FUS - EPHYS EFFECTS IN AN ANIMAL MODEL OF DEPRESSION

Speaker: Lisa Ratz (Germany)

PS05-28AM-408 SUBMILLIMETER TARGETING OF THE HIPPOCAMPAL FORMATION WITH DEEP BRAIN STIMULATION ELECTRODES BASED ON HIGH-RESOLUTION MRI-GUIDED NEURONAVIGATION IN NON-HUMAN PRIMATES

Speaker: Ankur Gupta (France)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 117

PS05-28AM-469 WHOLE-BRAIN ACTIVITY PATTERNS UNDERLYING UNINSTRUCTED BEHAVIORAL SWITCHING IN MICE

Speaker: Paulina Wanken (Germany)

PS05-28AM-470 SPONTANEOUS AND SENSORY-EVOKED AROUSAL FLUCTUATIONS ACTIVATE A SPECIFIC BRAIN-WIDE NETWORK

Speaker: Jose Maria Martinez de Paz (Germany)

PS05-28AM-471 HIGH-RESOLUTION 3D MAPPING OF CAT VISUAL CORTEX USING FUNCTIONAL ULTRASOUND IMAGING

Speaker: Ábel Petik (Hungary)

PS05-28AM-472 ARE CORTICAL COLUMNS UBIQUITOUS? HIGH-RESOLUTION IDENTIFICATION OF FUNCTIONAL DOMAINS IN CAT CORTEX USING 3D FUNCTIONAL ULTRASOUND IMAGING

Speaker: Klaudia Csikós (Hungary)

PS05-28AM-473 YEAR-LONG MULTIMODAL ACCESS TO NEURONAL ACTIVITY IN LARGE BRAINS

Speaker: Domonkos Horvath (Hungary)

PS05-28AM-474 FUNCTIONAL ULTRASOUND MAPPING OF LARGE-SCALE CONNECTIVITY NETWORKS IN THE MOUSE BRAIN

Speaker: Jean-Charles Mariani (Italy)

PS05-28AM-475 HIGH SENSITIVITY MAPPING OF BRAIN-WIDE FUNCTIONAL NETWORKS IN AWAKE MICE USING SIMULTANEOUS MULTI-SLICE FUS IMAGING

Speaker: Jeremy Ferrier (France)

PS05-28AM-476 ENHANCEMENT OF CEREBROSPINAL FLUID MOVEMENT BY TRANSCRANIAL FOCUSED ULTRASOUND STIMULATION

Speaker: Jaeho Kim (Korea, Republic of)

PS05-28AM-477 NEUROVASCULAR COUPLING ALONG THE OPTIC NERVE: INSIGHTS FROM TWO-PHOTON IMAGING, IMAGING FUNCTIONAL ULTRASOUND, AND HIGH-RESOLUTION BOLD FMRI

Speaker: Esteban Suárez Baquero (France)

PS05-28AM-478 FUNCTIONAL ULTRASOUND IS ABLE TO DETECT MUSIC THERAPY INDUCED FUNCTIONAL CONNECTIVITY CHANGES IN NEONATES

Speaker: Flora Faure (France)

PS05-28AM-479 EXPLORING ANALYTICAL PROCEDURES AND SHORT CHANNELS IN FNIRS RESEARCH: INSIGHTS AND IMPLICATIONS

Speaker: Yann Lemaire (France)

PS05-28AM-480 COMPREHENSIVE CHARACTERIZATION OF CEREBROVASCULAR OXYGENATION DYNAMICS IN AWAKE MICE USING HIGH-
RESOLUTION PHOTOACOUSTIC IMAGING

Speaker: Pierre Sicard (France)

PS05-28AM-481 LATERALIZATION OF MOTOR RESPONSES FOLLOWING FOCUSED ULTRASOUND NEUROMODULATION OF THE MOTOR CORTEX AND THALAMUS IN AWAKE MICE

Speaker: Jonas Bendig (United States)

PS05-28AM-482 MODELING AND INERENCE OF BRAIN FUNCTIONAL CONNECTIVITY NETWORKS IN THE SHANK2 MOUSE MODEL OF AUTISM USING FUNCTIONAL ULTRASOUND

Speaker: Ruben Wijnands (Netherlands)

PS05-28AM-483 ADVANCING IN-VIVO BRAIN VASCULATURE IMAGING: SUPER-RESOLUTION 3D ULTRASOUND LOCALIZATION MICROSCOPY OF THE MOUSE BRAIN AND IN NON-HUMAN PRIMATE USING RCA PROBES

Speaker: Adrien Bertolo (France)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 28

PS05-28AM-409 VISUAL EVIDENCE ACCUMULATION IN DROSOPHILA MELANOGASTER
Speaker: Matteo Bruzzone (Italy)

PS05-28AM-410 MORPHOLOGICAL AND FUNCTIONAL CHARACTERIZATION OF A CDKL5 MUTANT ZEBRAFISH LINE
Speaker: Marco Salamanca (Italy)

PS05-28AM-411 EFFECTS OF MULTIMODAL SENSORY INTEGRATION IN D. MELANOGASTER OPTOKINETIC RESPONSE
Speaker: Giulio Maria Menti (Italy)

PS05-28AM-412 A POTENTIAL ROLE OF LARVAL DROSOPHILA MELANOGASTER CUTICULAR PHEROMONES IN FEEDING AND AGGRESSION BEHAVIOUR
Speaker: Sari Anschütz (Germany)

PS05-28AM-413 A NEURONAL CIRCUIT APPROACH TO HABITUATION AND DISHABITUATION MECHANISMS IN DROSOPHILA MELANOGASTER
Speaker: Alexandros Charonitakis (Greece)

PS05-28AM-414 A CIRCUMPLEX MODEL OF AFFECT IN DROSOPHILA
Speaker: Yi Wang (Germany)

PS05-28AM-415 CIRCUIT MOTIFS FOR LEARNING WITH REINFORCEMENT PREDICTION IN THE DROSOPHILA MUSHROOM BODY
Speaker: Anna-Maria Jürgensen (Germany)

PS05-28AM-416 HOW TO IMPROVE MOTOR LEARNING IN DROSOPHILA
Speaker: Radostina Lyutova (Germany)

PS05-28AM-417 NEURAL PATHWAYS AND COMPUTATIONS THAT ACHIEVE STABLE CONTRAST PROCESSING TUNED TO NATURAL SCENES
Speaker: Marion Silies (Germany)

PS05-28AM-418 DISYNSAPTIC INHIBITION SHAPES TUNING OF OFF-MOTION DETECTORS IN DROSOPHILA
Speaker: Amalia Braun (Germany)

PS05-28AM-419 OCTOPAMINERGIC MODULATION OF MOTOR PROGRAM SELECTION IN THE DROSOPHILA LARVAL LOCOMOTOR SYSTEM
**Scientific programme**

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

**Speaker:** William Smith (United Kingdom)

**PS05-28AM-420**

**MAPPING THE SENSORIMOTOR CONNECTOME UNDERLYING PROTEIN-SPECIFIC APPETITES IN DROSOPHILA MELANOGASTER**

**Speaker:** Ibrahim Tastekin (Portugal)

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**Poster Session 05 - Section 167**

**Poster Session 09:30 - 13:00**

**PS05-28AM-217**

**DISSECTING THE REQUIREMENTS FOR BIOLOGICAL REPAIR AND RESTORATION OF WALKING FOLLOWING INCREASINGLY SEVERE SPINAL CORD INJURIES AT DIFFERENT TIMEPOINTS**

**Speaker:** Alexandra de Coucy (Switzerland)

**PS05-28AM-218**

**THE TABULAE PARALYTICA: MULTIMODAL SINGLE-CELL ATLAS OF SPINAL CORD INJURY**

**Speaker:** Alan Yue Yang Teo (Switzerland)

**PS05-28AM-219**

**NEUROPROSTHETIC INTERVENTIONS FOR ORTHOSTATIC HYPOTENSION IN NEUROLOGICAL DISEASES**

**Speaker:** Suje Amir (Switzerland)

**PS05-28AM-220**

**MAPPING NEURAL RECOVERY: COMPARATIVE MOLECULAR INSIGHTS INTO SPINAL CORD INJURY ACROSS SPECIES**

**Speaker:** Nicola Regazzi (Switzerland)

**PS05-28AM-221**

**NEURONAL REGENERATION TO RESTORE HAND AND ARM FUNCTIONS AFTER PARALYSIS**

**Speaker:** Achilleas Laskaratos (Switzerland)

**PS05-28AM-222**

**PHARMACOLOGICAL TREATMENT TARGETING ANGIOTENSIN RECEPTOR TYPE 2 AFTER SEVERE SPINAL CORD INJURY IMPROVES AXONAL AND MYELIN REGENERATION**

**Speaker:** Veronika Liptakova (Slovakia)

**PS05-28AM-223**

**EXPRESSION OF ANGIOTENSIN II RECEPTORS WITHIN HYPOTHALAMUS-PITUITARY-ADRENAL AXIS AFTER INJURY AT LOWER AND HIGHER THORACIC SPINAL LEVEL.**

**Speaker:** Erika Hvozdíková (Slovakia)

**PS05-28AM-224**

**FUNCTIONAL STIMULATION SYSTEM FOR REHABILITATION OF GAIT AND DRIVING NEURAL PLASTICITY AFTER SPINAL CORD INJURY**

**Speaker:** Sònia Trujillo Vázquez (Spain)

**PS05-28AM-225**

**NOT JUST A HIGHWAY: THE ROLE OF THE SPINAL CORD IN RATS’ FORELIMB SKILLED FUNCTION**

**Speaker:** Diego López Santos (Spain)

**PS05-28AM-226**

**OPTIMIZING MUSCLE RECRUITMENT BY EXPLORING DIFFERENT PARAMETERS OF INTRANEURAL ELECTRICAL STIMULATION**

**Speaker:** Bruno Rodríguez-Meana (Spain)

**PS05-28AM-227**

**EXPLORING SYNERGISTIC SUPRASPINAL AND SENSORY EFFECTS ON ADAPTIVE PLASTICITY OF THE NEURONAL NETWORKS AFTER SPINAL CORD INJURY**

**Speaker:** Nuria Antolin (Denmark)

**PS05-28AM-228**

**EFFECT OF CONTINUOUS INHIBITION OF IA FIBER ACTIVITY ON SPASTICITY SYMPTOM AND IA-A MOTONEURON CONNECTION AFTER SPINAL CORD INJURY**

**Speaker:** Takuto Hanasaki (Japan)

**PS05-28AM-229**

**INVESTIGATING THE RECOVERY OF NEONATAL RATS FROM**
**COMPRESSION SPINAL CORD INJURY UTILIZING A NOVEL 3D PRINTED SPACER MODEL**

**Speaker:** Reggie Ridlen (Australia)

**PS05-28AM-230**

**VSX1 EXPRESSION IN V2 PRECURSOR CELLS AT EMBRYOLOGICAL STAGES COULD BE USED TO FOLLOW SPARED V2 INTERNEURONS AFTER A TRAUMATIC INJURY IN THE ADULTHOOD

**Speaker:** Ana Dominguez Bajo (Belgium)

**PS05-28AM-231**

**QUANTITATIVE ANALYSIS OF NEURAL ACTIVITY IN THE VENTRAL NUCLEUS OF THE MEDULLARY RETICULAR NUCLEUS IN MICE DEVELOPING SPASTICITY AFTER STROKE USING ACTIVITY-DEPENDENT MANGANESE CONTRAST-ENHANCED MRI.**

**Speaker:** Sachiko Hotta (Japan)

**PS05-28AM-232**

**IMPACT OF CARnosine SUPPLEMENTATION ON CELLULAR EXPRESSIONS OF BRAIN AND GLIAL CELL LINE-DERIVED NEUROTROPHIC FACTORS IN LUMBAR AND CERVICAL ENLARGEMENTS AFTER THORACIC SPINAL CORD INJURY**

**Speaker:** Karolina Kucharova (Slovakia)

**PS05-28AM-233**

**TRAINING POTENTIATES THE EFFICACY OF THE ADIPOSE-STROMAL VASCULAR FRACTION AUTOGRaFT ON FUNCTIONAL RECOVERY AFTER AN ACUTE SPINAL CORD CONTUSION IN RATS.**

**Speaker:** Céline Ertlen (France)

**PS05-28AM-234**

**NETWORK PLASTICITY AND GABAERGIC CELLULAR DYNAMICS IN THE DIFFERENT LAYERS OF THE SOMATOSENSORY CORTEX AFTER A SPINAL CORD INJURY.**

**Speaker:** Marta Zaforas (Spain)

**PS05-28AM-235**

**COMPARATIVE STUDY OF TEMPORAL INFLAMMATION PATTERN OF TWO MODELS OF SPINAL CORD INJURY: CONTUSION VERSUS TRANSECTION**

**Speaker:** Alice Gaussot (France)

**PS05-28AM-236**

**MICROPRINTED 3D SCAFFOLDS FOR REPAIR OF SPINAL CORD INJURY**

**Speaker:** Nana Voitenko (Ukraine)

**PS05-28AM-238**

**MAPPING OREXIN/HYPOCRETIN RECEPTOR EXPRESSION IN THE CENTRAL NERVOUS SYSTEM AFTER INCOMPLETE SPINAL CORD INJURY IN MICE**

**Speaker:** Lara Buenvarón Medialdea (Spain)

**PS05-28AM-239**

**A PHYSICAL IMPACT TO THE CORD LEADS TO EARLY MASSIVE DEPOLARIZATION SUSTAINED BY CHLORIDE IONS WITH TRANSIENT REFLEX SUPPRESSION.**

**Speaker:** Atiyeh Mohammadshirazi (Italy)

**PS05-28AM-240**

**TIBOLONE IMPROVES LOCOMOTOR FUNCTION IN A RAT MODEL OF SPINAL CORD INJURY BY MODULATING APOPTOSIS AND AUTOPHAGY**

**Speaker:** Angélica Coyoy (Mexico)

**PS05-28AM-241**

**INVESTIGATING THE DISTRIBUTION OF COCAINE AND AMPHETAMINE-REGULATED TRANSCRIPT (CART) IN THE HUMAN SPINAL CORD**

**Speaker:** Gulgun Sengul (Turkey)

**PS05-28AM-242**

**THE IMPACT OF COMBINATION THERAPY IN SPINAL CORD INJURY TREATMENT**

**Speaker:** Martina Magurova (Slovakia)

**PS05-28AM-243**

**DYNAMICS OF IMMUNOGLOBULIN G DISTRIBUTION AND**

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NEURONAL INTERNALIZATION FOLLOWING SPINAL CORD INJURY

Speaker: Adrian Castellanos Molina (Canada)

PS05-28AM-244  THE INHIBITION OF OLIGODENDROCYTE REMYELINATION AFTER SPINAL CORD INJURY RESULTS IN COGNITIVE IMPAIRMENT AND DELAYED/INHIBITED LOCOMOTOR RECOVERY IN AGED MICE

Speaker: Wolfram Tetzlaff (Canada)

Poster Sessions
09:30 - 13:00

Poster Session 05 - Section 41

PS05-28AM-452  ABERRANT STRUCTURE AND TRACT-BASED CONNECTIVITY OF THE CLAUSRUM IN THE EARLY STAGES OF SCHIZOPHRENIA

Speaker: Rebecca Hippen (Germany)

PS05-28AM-453  TOPOLOGICAL DATA ANALYSIS OF CORTICAL WORD REPRESENTATIONS IN HEALTH AND SCHIZOPHRENIA

Speaker: Ryusuke Hayashi (Japan)

PS05-28AM-454  VOLUME OF THALAMIC SUBREGIONS ACROSS COMMON BEHAVIORAL AND NEUROLOGICAL DISORDERS: A MULTI-SITE MAGNETIC RESONANCE IMAGING STUDY

Speaker: Veronica Mäki-Marttunen (Norway)

PS05-28AM-455  DISTINCT CLAUSRUM-CORTEX CONNECTIONS ARE INVOLVED IN COGNITIVE CONTROL PERFORMANCE AND HABITUAL SLEEP IN HUMANS

Speaker: Virginia Conde Ruiz (Norway)

PS05-28AM-456  INVESTIGATING RISK FACTORS ASSOCIATED WITH LONGITUDINAL CHANGES IN BRAIN STRUCTURE IN UK BIOBANK

Speaker: Delia Gheorghe (Romania)

PS05-28AM-457  EXPLORING THE IMPACT OF INTERTHALAMIC ADHESION ON HUMAN COGNITION: INSIGHTS FROM HEALTHY SUBJECTS AND THALAMIC STROKE PATIENTS

Speaker: Julie Vidal (France)

PS05-28AM-458  EXAMINING SPEECH DISFLUENCY THROUGH THE ANALYSIS OF GREY MATTER DENSITIES IN 5-YEAR-OLDS USING VOXEL-BASED MORPHOMETRY

Speaker: Ashmeet Jolly (Finland)

PS05-28AM-459  ABERRANT STRUCTURAL CONNECTIVITY BETWEEN THE MEDIAL THALAMUS NUCLEI AND FRONTAL CORTICES IN INDIVIDUALS WITH EARLY PSYCHOSIS

Speaker: Julia Schulz (Germany)

PS05-28AM-460  HUMAN PRETERM BIRTH LEADS TO INDIVIDUALLY HETEROGENEOUS, SPATIALLY VARIABLE CORTICAL THICKNESS DEVIATIONS THAT ARE LASTING, GLIAL CELL-MEDIATED, AND RELEVANT FOR ADULT IQ

Speaker: Melissa Thalhammer (Germany)

PS05-28AM-461  ASSOCIATIONS BETWEEN MATERNAL PRE-PREGNANCY BMI AND WHITE MATTER INTEGRITY IN INFANTS

Speaker: Aylin Rosberg (Finland)

PS05-28AM-462  STRUCTURAL BRAIN REORGANIZATION IN CHILDREN WITH OBSTETRIC BRACHIAL PLEXUS PALSY

Speaker: Dzerassa Kadijeva (Russian Federation)
**PS05-28AM-463**  
**IMPAIRED VERBAL FUNCTIONING IS LINKED TO ALTERED WHITE MATTER MICROSTRUCTURE IN PRETERM-BORN ADULTS**  
*Speaker: Lena Gambarte (Germany)*

**PS05-28AM-464**  
**DISTINCT IMPACT MODES OF POLYGENIC DISPOSITION TO DYSLEXIA IN THE ADULT BRAIN**  
*Speaker: Sourena Soheili-Nezhad (Netherlands)*

**PS05-28AM-465**  
**CRACKING THE CODE: HOW EARLY BRAIN ASYMMETRY FORETells NEURODEVELOPMENTAL FUTURES**  
*Speaker: Patric Kienast (Austria)*

**PS05-28AM-466**  
**LIPID COMPOSITION DIVERSITY OF THE HUMAN BRAIN WHITE MATTER TRACTS**  
*Speaker: Marina Zavolskova (Russian Federation)*

**PS05-28AM-467**  
**TOPOLOGICAL DATA ANALYSIS REVEALS BRAIN CONNECTIVITY DIFFERENCES BETWEEN SCHIZOPHRENIA SUBJECTS AND HEALTHY CONTROLS**  
*Speaker: Emil Dmitruk (United Kingdom)*

**PS05-28AM-468**  
**STRUCTURAL BRAIN CHANGES AFTER POTENTIALLY Traumatic Events**  
*Speaker: Maren Angel Christensen (Norway)*

---

**Scientific Symposia (S)**

**09:45 - 11:15**

**A**

**S33 - The microbiota-gut-brain axis in brain development and adult function**

*Chair: Anthony Hannan (Florey Institute of Neuroscience and Mental Health, University of Melbourne, Australia)*

**Introduction**  
09:45 - 09:47

*Gut microbiota and immune system interactions in neurodevelopment and behaviour*  
09:47 - 10:05

*Speaker: Rochellys Diaz Heijtz, PhD (Karolinska Institutet, Stockholm, Sweden)*

**Q&A**  
10:05 - 10:09

*Modulation of neuroinflammation by microbiota-derived factors in stroke*  
10:09 - 10:27

*Speaker: Corinne Benakis (LMU Munich, Germany)*

**Q&A**  
10:27 - 10:31

*The microbiome-gut-brain axis, brain function and behaviour: Moving towards mechanisms*  
10:31 - 10:49

*Speaker: Gerard Clarke (University College Cork, Ireland)*

**Q&A**  
10:49 - 10:53

*The microbiota-gut-brain axis as a modulator of cognitive and affective function in mouse models*  
10:53 - 11:11

*Speaker: Anthony Hannan (Florey Institute of Neuroscience and Mental Health, University of Melbourne, Australia)*

**Q&A**  
11:11 - 11:15

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**S34 - The dynamism of the hippocampal neural code**

*Chair: Daniela Schiller (Icahn School of Medicine at Mount Sinai, United States)*

*Chair: Christian Doeller (Max Planck Institute for Human Cognitive and Brain Sciences, Germany)*

**Introduction**  
09:45 - 09:47
Hippocampal coding beyond the representation of self-location
Speaker: Nachum Ulanovsky (Weizmann Institute of Science, Israel)
Q&A
10:05 - 10:09

Insights from intra-cranial recording in the hippocampal system of freely-moving humans
Speaker: Nanthia Suthana (David Geffen School of Medicine at UCLA, United States)
Q&A
10:27 - 10:31

Hippocampal contributions to structure learning and abstraction
Speaker: Stephanie Theves (Max Planck Institute for Human Cognitive and Brain Sciences, Germany)
Q&A
10:49 - 10:53

Hippocampal representation of the geometry of social space
Speaker: Daniela Schiller (Icahn School of Medicine at Mount Sinai, United States)
Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S35 - Next-generation approaches for monitoring neurochemicals in the living brain
Chair: Pisano Filippo (University of Padua, Department of Physics and Astronomy, Italy)
Chair: Tommaso Patriarchi (University of Zürich, Switzerland)
Introduction
Speaker: Tommaso Patriarchi (University of Zürich, Switzerland)
Q&A
10:05 - 10:09

Development and application of genetically encoded biosensors
Speaker: Olivia Masseck (Universität Bremen, Germany)
Q&A
10:27 - 10:31

Vibrational photometry: detecting molecules in the deep brain with implantable nanophotonics
Speaker: Massimo De Vittorio (Istituto Italiano di Tecnologia, Center for Biomolecular Nanotechnologies, Italy)
Q&A
10:49 - 10:53

Multi-site monitoring of neuromodulator release during learning
Speaker: Eleanor Simpson (Columbia University / NYSPI, United States)
Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S36 - Neural representations of emotional contagion
Chair: Manuel Mameli (The University of Lausanne, Switzerland)
Introduction
Speaker: Sarah Mondoloni (The University of Lausanne, Switzerland)
Q&A
10:05 - 10:09

Vicarious stress promotes coping behaviors and serotonin-driven plasticity in habenula
Speaker: Sarah Mondoloni (The University of Lausanne, Switzerland)
Neural circuit mechanisms of social transfer of pain, analgesia and negative affect

Speaker: Monique Smith (The University of California San Diego (UCSD), United States)

Q&A

The role of oxytocin in the social transmission of behavior

Speaker: Ioana Carcea (Rutgers, The State University of New Jersey, United States)

Q&A

Brain-to-brain coupling during vicarious threat learning in humans

Speaker: Andreas Olsson (Karolinska Institutet, Sweden)

Q&A

Scientific Symposia (S)
09:45 - 11:15

S37 - The role of noise and variability in circuit wiring and function
Chair: Bassem Hassan (Institut du Cerveau-Paris Brain Institute, France)
Chair: Laura Andreae (King's College London, United Kingdom)

Introduction

09:45 - 09:47

Synaptic Promiscuity in Drosophila Brain Development

Speaker: Robin Hiesinger (Freie Universität Berlin, Germany)

Q&A

09:47 - 10:05

Stochastic transmitter release in mammalian hippocampal circuit formation

Speaker: Laura Andreae (King's College London, United Kingdom)

Q&A

09:47 - 10:09

Predicting behavioral variability from visually evoked neural activity across the zebrafish brain

Speaker: Eva Naumann (Duke University, United States)

Q&A

09:49 - 10:53

Sampling-based representations of uncertainty: a computational theory of neural response variability

Speaker: Máté Lengyel (University of Cambridge, UK / Central European University, Budapest, Hungary, United Kingdom)

Q&A

09:49 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S38 - Sculpting the future - interdisciplinary lessons on legacies of stress
Chair: Brian Dias (USC Keck School of Medicine & Children's Hospital Los Angeles, United States)

Introduction

09:45 - 09:47

Prenatal stress during neurogenic periods shapes cell regulatory networks and brain architecture

Speaker: Cristiana Cruceanu (Karolinska Institutet, Sweden)

Q&A

09:47 - 10:05

Intergenerational legacy of paternal stress hormone receptor activation

09:49 - 10:27
Speaker: Katharina Gapp (ETH Zurich, Switzerland)

Q&A

10:27 - 10:31

Sensing trauma: Intergenerational inheritance of olfactory experience

Speaker: Bianca Marlin (Columbia University, United States)

Q&A

10:49 - 10:53

Cross-species investigations of legacies of stress

Speaker: Brian Dias (USC Keck School of Medicine & Children’s Hospital Los Angeles, United States)

Q&A

11:11 - 11:15

Scientific Symposia (S)

09:45 - 11:15

G

S39 - Synapse size regulation: from data-driven modeling to model-driven experiments, and back again

Chair: Christian Specht (Inserm U1195 / Université Paris-Saclay, Diseases and Hormones of the Nervous System (DHNS), France)

Chair: Jonas Ranft (IBENS, Ecole Normale Supérieure & CNRS, France)

Introduction

09:45 - 09:47

Condensate biology at the synapse

09:47 - 10:05

Speaker: Dragomir Milovanovic (German Center for Neurodegenerative Diseases (DZNE), Germany)

Q&A

10:05 - 10:09

Statistical, biophysical and functional aspects of synaptic size fluctuations

10:09 - 10:27

Speaker: Naama Brenner (Technion – Israel Institute of Technology, Israel)

Q&A

10:27 - 10:31

Quantifying receptor-scaffold dynamics at inhibitory synapses: modeling and experiment

10:31 - 10:49

Speaker: Jonas Ranft (IBENS, Ecole Normale Supérieure & CNRS, France)

Q&A

10:49 - 10:53

The different phases of synaptic long-term plasticity

10:53 - 11:11

Speaker: Christian Tetzlaff (University Medical Center Göttingen, Germany)

Q&A

11:11 - 11:15

Scientific Symposia (S)

09:45 - 11:15

H

S40 - Insular cortex, a versatile hub for bodily sensations

Chair: Mario Carta (Univ. Bordeaux, CNRS, IINS, UMR 5297, France)

Chair: Mikkel Vestergaard (Max Delbrück Center, Germany)

Introduction

09:45 - 09:47

Insular cortex to ventral striatum synapses encode valence of social interaction

09:47 - 10:05

Speaker: Camilla Bellone (University of Geneva, Switzerland)

Q&A

10:05 - 10:09

The cellular coding of temperature in the mammalian cortex

10:09 - 10:27

Speaker: Mario Carta (Univ. Bordeaux, CNRS, IINS, UMR 5297, France)
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<th>Time</th>
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<tr>
<td>10:27 - 10:31</td>
<td>Q&amp;A</td>
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<tr>
<td>10:31 - 10:49</td>
<td>Emotion state processing in insular cortical circuits</td>
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<td></td>
<td>Speaker: Nadine Gogolla (Max Planck Institute of Psychiatry, Germany)</td>
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<tr>
<td>10:49 - 10:53</td>
<td>Q&amp;A</td>
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<tr>
<td>10:53 - 11:11</td>
<td>Immunoception: Neuronal traces of immune responses</td>
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<td></td>
<td>Speaker: Tamar Koren (Technion - Israel Institute of Technology, Israel)</td>
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<tr>
<td>11:11 - 11:15</td>
<td>Q&amp;A</td>
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**Poster Sessions with authors in attendance**

11:30 - 13:00

**PSA05 - Poster Authors in Attendance**

**Special Interest Events (SiE)**

12:00 - 12:45

**SiE11 - Exploring Open Tools for Cell Type Taxonomies with the Allen Institute**

- Event Description 12:00 - 12:00
- Preliminary Programme 12:00 - 12:00
- Speakers 12:00 - 12:00

**SiE12 - Shining, not Burning: The Mental Health Challenges of Modern Academia**

- Event Description 12:00 - 12:00
- Speakers 12:00 - 12:00

**SiE13 - Neuroscience Capacity Building: The Value of Involving Lived Experience**

- Event Description 12:00 - 12:00
- Preliminary Programme 12:00 - 12:00
- Speakers 12:00 - 12:00

**SiE14 - Funny Brains - Science Communication via Comedy**

- Event Description 12:00 - 12:00
- Speakers 12:00 - 12:00

**SiE15 - The ERC, funding support for investigator-driven research in Europe**

- Event Description 12:00 - 12:00
Special Lecture (SL)
13:30 - 14:15

SL06 - The Eric Kandel Prize Lecture & Scientific Award Ceremony, Mackenzie Mathis and Alexander Mathis (CH)

Introduction
Measuring and modeling the motor system with machine learning

Speaker: Mackenzie Mathis (EPFL, Switzerland)
Speaker: Alexander Mathis (EPFL, Switzerland)

Special Lecture (SL)
13:30 - 14:15

SL07 - The EBBS/Behavioural Brain Research Lecture, Iain Couzin (DE)

Introduction
The Geometry of Decision-Making

Speaker: Iain Couzin (Max Planck Institute of Animal Behavior & University of Konstanz, Germany)

Other
13:30 - 14:00

Poster Sessions
14:00 - 17:30

Poster Session 06 - Section 155

PS06-28PM-516 FUNCTIONAL CONNECTIVITY CURVE DETECTION MODEL (FUNCURVDTX) WITH APPLICATION TO ALZHEIMER'S DISEASE
Speaker: Eunjee Lee (Korea, Republic of)

PS06-28PM-517 FUNCTIONAL SEQUENCE KERNEL ASSOCIATION TEST (FSKAT) FOR GENETIC VARIANT IDENTIFICATION IN RESTING-STATE FUNCTIONAL CONNECTIVITY
Speaker: Yoonseok Lee (Korea, Republic of)

PS06-28PM-518 RELATIONSHIPS BETWEEN RESTING STATE BRAIN NETWORKS AND COGNITION ACROSS PSYCHOSIS, DEPRESSION, AND CLINICAL HIGH-RISK FOR PSYCHOSIS
Speaker: Dilara Steenken (Germany)

PS06-28PM-519 A CONNECTOME-BASED FMRI STUDY OF SPATIAL REASONING IN STROKE
Speaker: Takamichi Tohyama (Japan)

PS06-28PM-521 UNRAVELING THE INTERPLAY BETWEEN PSYCHOLOGICAL RESILIENCE, INTRINSIC FUNCTIONAL CONNECTIVITY AND PROCESSING SPEED IN HEALTHY AGEING
Speaker: Menglu Chen (China)

PS06-28PM-522 DEVELOPMENT OF THE WHOLE-BRAIN FUNCTIONAL CONNECTOME EXPLORED VIA GRAPH THEORY ANALYSIS
Speaker: Jordan Hassett (Germany)

PS06-28PM-523 THE CONTRIBUTION OF DIVERSE AND STABLE FUNCTIONAL CONNECTIVITY EDGES TO BRAIN-BEHAVIOR ASSOCIATIONS
Speaker: Andraž Matkovič (Slovenia)

PS06-28PM-524 MULTIVARIATE PATTERN ANALYSIS ON ASSOCIATIONS BETWEEN RESTING-STATE WHOLE-BRAIN FUNCTIONAL CONNECTIVITY PATTERNS AND MEDIAL PREFRONTAL GABA LEVELS SPECIFIC TO MAJOR DEPRESSIVE DISORDER
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<th>Session</th>
<th>Title</th>
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<tr>
<td>PS06-28PM-525</td>
<td>GLOBAL AND LOCAL FUNCTIONAL CONNECTIVITY HUBS FOR VERBAL MEMORY ENCODING</td>
<td>Toshiki Iwabuchi (Japan)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-526</td>
<td>RESTING-STATE BRAIN NETWORKS IN RELATION TO DECLARATIVE/PROCEDURAL MEMORY AND MULTILINGUAL LANGUAGE EXPERIENCE</td>
<td>Petr Klimes (Czech Republic)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-527</td>
<td>INTEGRATING MACROSTRUCTURAL AND MICROSTRUCTURAL REPRESENTATIONS OF WHITE MATTER THROUGH CONVOLUTIONAL NEURAL NETWORKS</td>
<td>Sevil Maghsadhagh (Austria)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-528</td>
<td>OBLIGATORY TRAJECTORY BETWEEN TRACTABLE COMPONENTS IN THE NEUROPSYCHOLOGICAL ARCHITECTURE.</td>
<td>Jung Youn Min (Korea, Republic of)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-529</td>
<td>CAN RETINA SERVE AS A SURROGATE MARKER FOR CARDIOVASCULAR RISK FACTOR-ASSOCIATED DIFFERENCES IN THE BRAIN?</td>
<td>Suzana Gjeci (Albania)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-530</td>
<td>RECIPROCAL RELATIONSHIP BETWEEN NEURAL FIBRE SPAN AND NODE TRANSMISSION IN BRAIN STABILIZES INFORMATION PATHWAY AND ENERGY HOMEOSTASIS ACROSS HUMAN LIFE-SPAN.</td>
<td>Nazife ayyildiz (Germany)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-531</td>
<td>COMPENSATION BY DYNAMICS: FUNCTIONAL CONNECTIVITY RESCUED FROM STRUCTURAL DAMAGE BY MODULATING DYNAMICAL REGIME</td>
<td>Prasun Kumar Roy (India)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-532</td>
<td>FUNCTIONAL CONNECTIVITY AS BIOMARKER FOR NETWORK HYPEREXCITABILITY IN ALZHEIMER'S DISEASE</td>
<td>Anne van Nifterick (Netherlands)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-533</td>
<td>SEMI-BLIND MACHINE LEARNING FOR FMRI-BASED PREDICTIONS OF INTELLIGENCE</td>
<td>Gabriele Lohmann (Germany)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-534</td>
<td>COACTIVATION PATTERN ANALYSIS REVEALS CHANGES IN PRODROMAL DEMENTIA WITH LEWY BODIES</td>
<td>Martin Gajdoš (Czech Republic)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-535</td>
<td>THE POSSIBLE IMPACT OF THE DEFAULT MODE ON COGNITION: WHAT CAN BE LEARNED FROM CHILDHOOD STROKE</td>
<td>Kathrin Kollindorfer (Austria)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-536</td>
<td>REGIONAL CORTICAL EXCITABILITY CRITICALLY BIASES INTERAREAL FMRI CONNECTIVITY</td>
<td>David Sastre (Italy)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-537</td>
<td>RESTING-STATE DISSECTION</td>
<td>Anastasios-Polykarpos Athanasiadis (France)</td>
<td>14:00 - 14:00</td>
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<td>PS06-28PM-538</td>
<td>ENHANCED PREDICTION OF SUICIDAL IDEATION USING DIMENSIONAL SUBDOMAINS FROM DSM-5 LEVEL 1 CROSS-SECTIONAL SYMPTOM SCALE WITH NEURAL NETWORKS</td>
<td>Muhammed Ballı (Turkey)</td>
<td>14:00 - 14:00</td>
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Poster Sessions
14:00 - 17:30

**Poster Session 06 - Section 25**

**PS06-28PM-141** SLEEPLESS NIGHTS, VANISHING FACES: THE EFFECT OF SLEEP DEPRIVATION ON LONG-TERM SOCIAL RECOGNITION MEMORY IN MICE.
*Speaker*: Adithya Sarma (Netherlands)

**PS06-28PM-142** SLEEP AND CIRCADIAN RHYTHM OF SENESCENCE-ACCELERATED MICE (SAM)P8 AND R1
*Speaker*: Akira Terao (Japan)

**PS06-28PM-143** ARTIFICIAL LIGHT AT NIGHT DISRUPTS DAILY RHYTHMS IN BLOOD-BRAIN BARRIER PERMEABILITY
*Speaker*: Claire Kisamore (United States)

**PS06-28PM-144** SEX-SPECIFIC ATTENUATED MTOR SIGNALING AFTER ACUTE AND CHRONIC SLEEP LOSS
*Speaker*: Jennifer Tudor (United States)

**PS06-28PM-145** SLEEP DEPRIVATION IMPAIRS HIPPOCAMPAL CA2 SYNAPTIC PLASTICITY AND SOCIAL MEMORY IN MICE
*Speaker*: Lik Wei Wong (Singapore)

**PS06-28PM-146** THE EFFECT OF FASTING ON HUMAN MEMORY CONSOLIDATION
*Speaker*: Xuefeng Yang (Germany)

**PS06-28PM-147** CREB-PER2 IN RAT HIPPOCAMPUS MEDIATES MOOD TRANSITION
*Speaker*: Xinling Wang (China)

**PS06-28PM-148** FEAR MEMORY UNDER ACUTE PHASE SHIFT: POTENTIAL MODULATION OF PREFRONTAL-HIPPOCAMPAL CIRCUIT BY OREXIN
*Speaker*: Lara Chirich Barreira (Germany)

**PS06-28PM-149** MELATONIN DEFICIENCY RELATED TO PINEALECTOMY HAS AN AGE-SPECIFIC IMPACT ON MEMORY DECLINE IN RATS THROUGH ERK/CREB/BDNF/TRKB SIGNALING IN THE HIPPOCAMPUS
*Speaker*: Jana Tchekalarova (Bulgaria)

**PS06-28PM-150** TRANSGENERATIONAL EFFECTS OF SLEEP DEPRIVATION ON IMPRINTED GENES REGULATION
*Speaker*: Alice Melloni (Italy)

**PS06-28PM-151** RAMELTEON ENHANCES MEMORY IN QUASI-NATURAL CONTEXTS
*Speaker*: Mikuru Kudara (Japan)

**PS06-28PM-152** IMPACT OF ALZHEIMER'S DISEASE ON NON-VISUAL LIGHT PERCEPTION, SUPRACHIASMATIC NUCLEUS CONNECTIVITY AND SLEEP REGULATION.
*Speaker*: Hugo Calligaro (United States)

**PS06-28PM-153** THE KEY CIRCADIAN NEUROPEPTIDE PDF HAS SEXUALLY DIMORPHIC EFFECTS ON ACTIVITY RHYTHMS AND SLEEP
*Speaker*: Aishwarya Iyer (United States)

**PS06-28PM-154** CHRONIC UNPREDICTABLE SLEEP DISRUPTION INDUCES CHANGES IN LOCOMOTOR ACTIVITY, METABOLISM, AND INFLAMMATION IN WISTAR RATS
*Speaker*: Heather Macpherson (Australia)

**PS06-28PM-155** ALTERED CIRCADIAN FUNCTION IN A MOUSE MODEL OF
PHENYLKETONURIA

Speaker: Junfei Cao (Netherlands)

PS06-28PM-156 RESTORING 'LOST' MEMORIES: EFFICACY OF VARDENAFIL TO REVERSE AMNESIA FOLLOWING SLEEP DEPRIVATION

Speaker: Camilla Paraciani (Netherlands)

PS06-28PM-157 CHRONODISRUPTION DURING EARLY DEVELOPMENTAL STAGES AFFECTS CLOCK IN THE SCN IN A SEX-DEPENDENT MANNER VIA MELATONIN-INDEPENDENT SIGNALING PATHWAYS

Speaker: Kateryna Semenovych (Czech Republic)

PS06-28PM-158 DIURNAL VARIATION OF LEARNING AND MEMORY AND MOLECULAR APPROACH IN MICE AND NONHUMAN PRIMATES.

Speaker: Kimiko Shimizu (Japan)

PS06-28PM-159 SLEEP DEPRIVATION IMPROVES BEHAVIORAL PERFORMANCE IN ZEBRAFISH LARVAE

Speaker: Paula Pfitsch (Germany)

PS06-28PM-160 BIDIRECTIONAL MANIPULATION OF OREXINERGIC NEURONS SHOW SEXUAL DIMORPHISM IN LEARNING AND MEMORY

Speaker: Alexis Vega Medina (United States)

PS06-28PM-161 SEX-SPECIFIC DIFFERENCES IN HIPPOCAMPAL GENE REGULATION FOLLOWING ACUTE SLEEP DEPRIVATION

Speaker: Lisa Lyons (United States)

Poster Sessions with authors in attendance
14:00 - 15:30

PSA06 - Poster Authors in Attendance

Poster Sessions
14:00 - 17:30

Poster Session 06 - Section 45

PS06-28PM-539 A NOVEL MRI-COMPATIBLE RESTRAIN SETUP FOR AWAKE RAT MULTIMODAL EXPERIMENTS

Speaker: Francesca Barcellini (Switzerland)

PS06-28PM-540 DECIPHERING THE ROLE OF LOCUS COERULEUS THROUGH SALIENT STIMULUS DETECTION USING FUNCTIONAL MRI

Speaker: Nikolaos Molochidis (Switzerland)

PS06-28PM-541 AWAKE RAT MRI SCANNING - A CONTRIBUTION TO THE AWAKERODENT MULTI-CENTER, MULTI-SPECIES, MULTI-MODALITY STUDY

Speaker: Andrew Breen (Ireland)

PS06-28PM-542 NORMATIVE BRAIN DEVELOPMENT IN MALE AND FEMALE RATS: A LONGITUDINAL NEUROIMAGING STUDY

Speaker: Daniel McLoone (Ireland)

PS06-28PM-543 COMPREHENSIVE WHOLE RAT BRAIN ANALYSIS:EXPANDING RAT BRAIN RESEARCH WITH ENHANCED IMAGING AND COMPUTATIONAL TOOLS

Speaker: Grace Houser (Denmark)

PS06-28PM-544 A NOVEL IN-VIVO TEMPLATE OF THE FEMALE C57BL6/N MOUSE BRAIN

Speaker: Peter Stoehrman (Austria)

PS06-28PM-545 ASSESSMENT OF TASK-SPECIFIC GLUCOSE METABOLISM WITH NON-INVASIVE FUNCTIONAL PET
**Scientific programme**

**14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria**

**Speaker:** Godber Mathis Godbersen (Austria)

**PS06-28PM-546**  EVALUATION OF A REFINED CARPROFEN-BASED ANALGESIC REGIMEN FOR STEREOTACTIC SURGERIES IN RATS

**Speaker:** Kerstin Schwabe (Germany)

**PS06-28PM-547**  EVALUATION OF RUNNING WHEEL BEHAVIOR AS A RELIABLE MARKER FOR SEVERITY ASSESSMENT AND HUMANE ENDPOINT DETECTION IN A RAT MODEL WITH INTRACRANIAL TUMOR

**Speaker:** Alina Ottlewski (Germany)

**Poster Sessions**

**Poster Session 06**

14:00 - 17:30

**Poster Session 06 - Section 128**

**PS06-28PM-115**  COMPUTATION WITH NEURONAL CULTURES: EFFECTS OF CONNECTIVITY MODULARITY ON RESPONSE SEPARATION AND GENERALISATION IN SIMULATIONS AND EXPERIMENTS

**Speaker:** Akke Mats Houben (Spain)

**PS06-28PM-116**  ARTIFACT IDENTIFICATION IN TRANSFER ENTROPY CONNECTIVITY INFERENCE OF NEURONAL CULTURES

**Speaker:** Mikel Ocio-Moliner (Spain)

**PS06-28PM-117**  DYNAMIC BEHAVIOUR AND FUNCTIONAL ORGANIZATION OF NEURONAL CULTURES GROWN IN SUBSTRATES WITH SPATIAL ANISOTROPIES

**Speaker:** Mireia Olives Verger (Spain)

**PS06-28PM-118**  EXPLORING STIMULATION AND PLASTICITY IN TAILORED NEURONAL CULTURES MONITORED ON HIGH-DENSITY MULTIELECTRODE ARRAYS

**Speaker:** Anna-Christina Haeb (Spain)

**PS06-28PM-119**  IMPACT OF INTER-AREAL CONNECTIVITY ON SENSORY PROCESSING IN A BIOPHYSICALLY-DETAILED MODEL OF TWO INTERACTING CORTICAL AREAS

**Speaker:** Sirio Bolaños Puchet (Switzerland)

**PS06-28PM-120**  A CONNECTOME MANIPULATION FRAMEWORK FOR THE SYSTEMATIC AND REPRODUCIBLE STUDY OF STRUCTURE-FUNCTION RELATIONSHIPS THROUGH SIMULATIONS

**Speaker:** Christoph Pokorny (Switzerland)

**PS06-28PM-121**  INTERACTIVE BRAIN ATLAS CURATION AND ENHANCEMENT WITH HOUDINI AND PYTHON

**Speaker:** Davide Bella (Switzerland)

**PS06-28PM-122**  DYNAMICAL COMPLEXITY IN ENGINEERED BIOLOGICAL NEURONAL NETWORKS WITH DIRECTIONAL AND MODULAR CONNECTIONS

**Speaker:** Nobuaki Monma (Japan)

**PS06-28PM-123**  MECHANISMS OF ATTENTION IN BIOPHYSIOLOGICALLY REALISTIC DALEIAN SPIKING NEURAL NETWORKS

**Speaker:** Marius Schneider (Germany)

**PS06-28PM-124**  FUNCTIONAL CONNECTIVITY OF IN-VITRO NEURONAL SPIKING ACTIVITY DURING REST AND GAMEPLAY

**Speaker:** Alon Loeffler (Australia)
PS06-28PM-125  RESERVOIR COMPUTING USING CULTURED NEURONAL NETWORKS WITH MODULAR TOPOLOGY  -  Speaker: Takuma Sumi (Japan)

PS06-28PM-126  EFFECT OF OPTOGENETIC MODULATION OF NEURONAL ENSEMBLES IN CULTURED NEURONAL NETWORKS  -  Speaker: Hakuba Murota (Japan)

PS06-28PM-127  UNIFYING STRUCTURED ACTIVITY, TRAVELLING WAVES, AND OPTOGENETIC PERTURBATION DURING RESTING STATE IN A SINGLE LARGE-SCALE V1 MODEL  -  Speaker: Tibor Rozsa (Czech Republic)

PS06-28PM-128  THE FUNCTIONAL TRANSMISSION OF INFORMATION IN A MIXED-CULTURED NEURAL NETWORK OF CHICK AND RAT.  -  Speaker: Suguru Kudoh (Japan)

PS06-28PM-129  CLUSTERING VISUAL SENSORY NEURONS BASED ON THEIR INVARIANCES  -  Speaker: Luca Baroni (Czech Republic)

PS06-28PM-130  EXPLOITING NETWORK TOPOLOGY IN BRAIN-SCALE MULTI-AREA MODEL SIMULATIONS  -  Speaker: Melissa Lober (Germany)

PS06-28PM-131  WEIGHTED GENERATIVE NETWORK MODELS OF NEURONAL DEVELOPMENT  -  Speaker: Kayton Rotenberg (United Kingdom)

PS06-28PM-132  QUANTIFYING SHARED STRUCTURE BETWEEN REAL MATRICES OF ARBITRARY SHAPE  -  Speaker: Jasper Albers (Germany)

PS06-28PM-133  SPLITTER CELLS INSIDE A RANDOM BUT EMBODIED COMPUTATIONAL MODEL  -  Speaker: Naomi Chaix-Eichel (France)

PS06-28PM-134  ACHIEVING THE THREE LOGIC OPERATIONS USING ENGINEERED BIOLOGICAL NEURONAL NETWORKS  -  Speaker: Joël Küchler (Switzerland)

PS06-28PM-135  COMPUTING IN NEURONAL NETWORKS WITH PLASTICITY BY ALL-OPTICAL INTERFACING  -  Speaker: Andrey Formozov (Germany)

PS06-28PM-136  HARD TO DIGEST: THE CHALLENGES OF MODELING THE DYNAMICS OF THE C. ELEGANS PHARYNX  -  Speaker: James Ferguson (Austria)

PS06-28PM-137  LIBRARY OF DYNAMICS : LINKING PARAMETERS AND BEHAVIOUR OF SPIKING NEURAL NETWORKS  -  Speaker: Aaradhya Vaze (Austria)

PS06-28PM-138  REORGANISATION OF MODULAR ACTIVITY IN CORTICAL CIRCUITS  -  Speaker: Lorenzo Butti (Germany)

PS06-28PM-139  CRITICALITY EXPLAINS STRUCTURE-FUNCTION RELATIONSHIPS IN THE HUMAN BRAIN  -  Speaker: MARIANNA ANGIOLELLI (Italy)

PS06-28PM-140  FIBRATION SYMMETRIES REVEAL NEURONAL SYNCHRONIZATIONS IN THE C. ELEGANS CONNECTOME  -  Speaker: Pedro Augusto (Austria)
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PS06-28PM-482 COGNITIVE PROFILES AND BRAIN ALTERATIONS IN PRODROMAL AND PARKINSON’S DISEASE INDIVIDUALS

Speaker: Edith Gaspar (Mexico)

PS06-28PM-483 KINEMATIC DATA PREDICT RISK OF FUTURE FALLS IN PATIENTS WITH PARKINSON’S DISEASE WITHOUT A HISTORY OF FALLS: A FIVE-YEAR PROSPECTIVE STUDY.

Speaker: Max Brzezicki (United Kingdom)

PS06-28PM-484 TARGETING THE VASO-INTESTINAL PEPTIDERIC SYSTEM TO DECREASE ANXIETY IN PARKINSON’S DISEASE

Speaker: Adriane Guillaumin (France)

PS06-28PM-485 LOSS OF METABOLIC SPIKE REGULATION MAY LEAD TO DISEASE ONSET AND CELL DEATH IN PARKINSON’S

Speaker: Chaitanya Chintaluri (Austria)

PS06-28PM-486 THE EFFECT OF MODERATE-INTENSITY BALANCE TRAINING ON THE ACTIVITY OF ANTIOXIDANT ENZYMES IN PEOPLE WITH PARKINSON’S DISEASE. A PILOT STUDY

Speaker: Jadwiga Kubica (Poland)

PS06-28PM-487 COMPARISON OF LOCOMOTION SPEED DURING DIFFERENT COGNITIVE AND MOTOR TASKS IN SUBJECTS WITH PARKINSON’S DISEASE

Speaker: Flávia Gomes Martinez (Brazil)

PS06-28PM-488 OLFACTORY DYSFUNCTION AS A COMMON DENOMINATOR IN MULTIPLE SCLEROSIS AND PARKINSON’S DISEASE - EVIDENCE FROM ANIMAL MODELS

Speaker: Andjela Stekic (Serbia)

PS06-28PM-489 AVALANCHE TRANSITION MATRICES REFLECT BASAL GANGLIA-CORTICAL ALTERATIONS IN PARKINSON’S DISEASE

Speaker: Hasnae AGOURAM (France)

PS06-28PM-490 EFFECTS OF AEROBIC-STRENGTH TRAINING ON CLINICAL STATE AND COGNITIVE FUNCTIONS IN PATIENTS WITH MILD TO MODERATE PARKINSON’S DISEASE

Speaker: Jozef Ukropec (Slovakia)

PS06-28PM-491 VISUALIZING DIFFERENCES ONLINE: RADIOLOGICAL INSIGHTS INTO CONTROL, PRODROMAL, AND PARKINSON’S BRAINS USING VOLUMETRY

Speaker: Mazhar ÖZKAN (Turkey)

PS06-28PM-492 GPR3 PROCESSING IN NEURODEGENERATION: A POTENTIAL MARKER FOR PARKINSON’S DISEASE PROGRESSION RATE

Speaker: Josep Argerich (Spain)

PS06-28PM-493 PARKINSON’S DISEASE IN MAURITANIA: ANALYSIS OF THE EPIDEMIOLOGICAL PROFILE AND CONTRIBUTION TO GENETIC ANALYSIS.

Speaker: El El Mouhab (Mauritania)

Poster Sessions
14:00 - 17:30

Poster Session 06 - Section 106

PS06-28PM-548 DIFFERENTIAL FUNCTIONAL ORGANIZATION OF AMYGDALA-MEDIAL PREFRONTAL CORTEX NETWORKS IN MACAQUE AND HUMAN

Speaker: Camille Giacometti (France)
PS06-28PM-549  THE NEUROPHYSIOLOGICAL BASIS OF LEARNING TO LEARN IN MACAQUE MONKEYS
Speaker: Marion Ducret (France)

PS06-28PM-550  TRANSCRANIAL ULTRASOUND NEUROMODULATION INDUCES METABOLIC AND RESTING-STATE CHANGES IN AMYGDALA.
Speaker: Julien Claron (France)

PS06-28PM-551  ACOUSTICAL DISTANCE TO THE AVERAGE VOICE MODULATES NEURAL TUNING IN THE MACAQUE VOICE PATCHES
Speaker: Yoan Esposito (France)

PS06-28PM-552  ENCODING OF VOICE IDENTITY BY NEURONS IN THE MACAQUE ANTERIOR TEMPORAL VOICE AREA
Speaker: Margherita Giamundo (France)

PS06-28PM-553  GPT-4 CAN RECOGNIZE THEORY OF MIND IN NATURAL CONVERSATIONS: FMRI EVIDENCE
Speaker: Camilla Di Pasquasio (France)

PS06-28PM-554  HIGH-RESOLUTION FMRI REVEALS AN EXTENSIVE CORTICAL NETWORK RESPONDING TO CONSPECIFIC EMOTIONAL VOCALISATIONS IN MACAQUES.
Speaker: Mathilda Froesel (Belgium)

PS06-28PM-555  VOCAL-CARDIORESPIRATORY COORDINATION DURING THE LEARNING PROCESS TO VOLITIONALLY VOCALIZE IN MARMOSET MONKEYS
Speaker: Cristina Risueno Segovia (Japan)

PS06-28PM-556  DIRECT PROJECTIONS FROM THE CONTRALATERAL AMYGDALA TO EXTRASTRIATE AREAS IN THE MARMOSET MONKEY
Speaker: Marcello Rosa (Australia)

PS06-28PM-557  SUBCORTICAL CORRELATES OF MACAQUES' SOCIAL TOLERANCE SCALE
Speaker: Sarah Silvere (France)

PS06-28PM-558  EMPATHY AND BASIC BEHAVIOR IN NON-HUMAN PRIMATES
Speaker: Shahaboddin Zarei (China)

PS06-28PM-559  UNIQUE CORTICAL AND SUBCORTICAL ACTIVATION PATTERNS FOR DIFFERENT CONSPECIFIC CALLS IN MARMOSETS
Speaker: Azadeh Jafari (Canada)

PS06-28PM-560  CANINE WHITE MATTER PATHWAYS POTENTIALLY RELATED TO HUMAN LANGUAGE COMPREHENSION
Speaker: Mélina Cordeau (United States)

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14:00 - 17:30

Poster Session 06 - Section 37

PS06-28PM-264  MODELLING SYNAPTIC TAU AND AB PATHOLOGY IN HUMAN ORGANTYPOIC BRAIN SLICE CULTURES
Speaker: Robert McGeachan (United Kingdom)

PS06-28PM-265  SYNAPTIC GENE EXPRESSION CHANGES IN FRONTOTEMPORAL DEMENTIA DUE TO THE MAPT 10+16 MUTATION
Speaker: Tara Spires-Jones (United Kingdom)

PS06-28PM-266  EXPRESSION OF HUMAN TAU IN ADULT DROSOPHILA MELANOGASTER CAUSES A SEXUALLY DIMORPHIC SLEEP PHENOTYPE
Speaker: Edmond N Mouofo (United Kingdom)
PS06-28PM-267 - INVESTIGATING FUNCTIONAL CONSEQUENCES OF ASTROCYTE INGESTION OF SYNAPSES IN AN EX VIVO MODEL OF ALZHEIMER’S DISEASE-LIKE SYNAPSE LOSS

Speaker: Francesco Gobbo (United Kingdom)

PS06-28PM-268 - MODULATION OF RELEASE OF AMYLOID-B IN LIVE HUMAN BRAIN SLICE CULTURES

Speaker: Soraya Meftah (United Kingdom)

PS06-28PM-269 - WASTEOSOMES (CORPORA AMYLACEA) IN FRONTOTEMPORAL LOBAR DЕGЕNERATION CAN CONTAIN ТАU, TDP-43, OR FUS, REFLECTING THE UNDERLYING PROTEINOPATHY

Speaker: Raquel Alsina (Spain)

PS06-28PM-270 - NEW METHOD TO CHARACTERIZE WASTEOSOMES (CORPORA AMYLACEA) FROM THE HUMAN INTRAVENTRICULAR CEREBROSPINAL FLUID

Speaker: Marta Riba (Spain)

PS06-28PM-271 - LONGITUDINAL ASSESSMENT OF NEURODEGENERATION IN A MOUSE MODEL OF TAUOPATHY USING MULTIPARAMETRIC MAGNETIC RESONANCE IMAGING

Speaker: Annacarla Martucci (Italy)

PS06-28PM-272 - ROLE OF THE COILED-COIL STRUCTURE OF HUNTINGTIN IN THE INTERCELLULAR PROPAGATION OF POLY-Q AGGREGATES

Speaker: Marco Bosica (Italy)

PS06-28PM-273 - SUMO2 CONJUGATION RESCUES SYNAPTIC ABNORMALITIES IN IPSC-DERIVED NEURONS EXPRESSING MUTANT TAU

Speaker: Andrea Alloni (Italy)

PS06-28PM-274 - INVESTIGATING THE ROLE OF HYPERPHOSPHORYLATED TAU IN BOTH NEURODEGENERATIVE DISEASE AND GliOBLASTOMA USING ADULT HUMAN ORGANOTYPIC SLICE CULTURES.

Speaker: Connie MacKenzie-Gray Scott (United Kingdom)

PS06-28PM-275 - DETERMINING THE EFFECT OF TROPOMYOSIN DELETION ON TAU PROPAGATION IN MOUSE BRAINS

Speaker: Soumalya Sarkar (Australia)

PS06-28PM-276 - EXACERBATION OF TAUOPATHY FOLLOWING MILD AND REPEATED SPINAL CONTUSIONS IN THE HTAU P301S MOUSE MODEL

Speaker: Nicolas Halloin (Belgium)

PS06-28PM-277 - TIME WINDOW FOR EARLY INTERVENTION IN TAUOPATHY MOUSE MODEL

Speaker: Benito Maffei (United Kingdom)

PS06-28PM-278 - EPIGENOMIC PROFILING OF ALZHEIMER’S AND PICK’S DISEASE AT THE SINGLE-NUCLEUS LEVEL

Speaker: Vivek Swarup (United States)

PS06-28PM-279 - MICAL MODULATES TAU TOXICITY VIA CYSTEINE OXIDATION IN VIVO

Speaker: Engie Prifti (Greece)

PS06-28PM-280 - LABEL-FREE SPECTROSCOPIC IMAGING OF EX VIVO ALZHEIMER’S DISEASE BRAIN FROM AN ANIMAL MODEL OF TAUOPATHY

Speaker: Hao Meng (United Kingdom)

PS06-28PM-281 - MITIGATION OF PATHOLOGICAL TAU ABNORMALITIES BY THE NATURAL ANTIOXIDANT URIC ACID: COMPARISON WITH DOT, A NON-ANTIBIOTIC OXYTETRACYCLINE DERIVATIVE

Speaker: Connie MacKenzie-Gray Scott (United Kingdom)
Speaker: Patrick Pierre Michel (France)

PS06-28PM-282 RESOLVING MOLECULAR STRUCTURES IN A-SYNUCLEIN AND TAU CROSS-SEEDING WITH NOVEL SUPER-RESOLUTION INFRARED IMAGING

Speaker: Xiaoni Zhan (Sweden)

PS06-28PM-283 IN-VITRO AND PRECLINICAL THERAGNOSTIC STUDIES BASED ON NOVEL P-TAU MONOCLONAL ANTIBODY FOR TAUOPATHIES

Speaker: Marta Aramburu Núñez (Spain)

PS06-28PM-284 INVOLVEMENT OF TYROSINE KINASE PYK2 IN SYNAPTOTOXICITY ASSOCIATED WITH ALZHEIMER’S DISEASE: A PROTEIN AT THE INTERFACE OF AMYLOID AND TAU PATHOLOGIES

Speaker: Quentin RODRIGUEZ (France)

PS06-28PM-285 COMPREHENSIVE CHARACTERIZATION OF PS19 TAUOPATHY TRANSGENIC MOUSE MODEL: STUDYING TAU’S ROLE IN ALZHEIMER’S DISEASE AND PRECLINICAL MODEL SUITABILITY

Speaker: Antía Custodia Malvido (Spain)

PS06-28PM-286 FUNCTIONAL ANALYSIS OF SPONTANEOUS NEURONAL ACTIVITY IN CORTICAL ORGANOIDS AS A MODEL OF HUMAN TAUOPATHIES

Speaker: Karolina Zimkowska (Spain)

PS06-28PM-287 EARLY TAU PATHOLOGY ACCUMULATION IN POSTMORTEM DEFAULT MODE NETWORK HUBS

Speaker: Betul Kara (United States)

PS06-28PM-288 BRAIN SLICE DERIVED NERVE FIBERS GROW ALONG MICROCONTACT PRINTS AND ARE STIMULATED BY BETA-AMYLOID(42)

Speaker: Katharina Steiner (Austria)

PS06-28PM-289 CORRELATION BETWEEN NEUROPROTECTION IN A TAUOPATHY ENVIRONMENT FOLLOWING TRAUMA AND DELAYED ASTROGLIOSIS IN A COHORT STUDY

Speaker: Sachin Suresh Tiwari (India)

PS06-28PM-290 IDENTIFICATION OF TAU UFMYLATION IN VITRO AND IN VIVO

Speaker: Fabienne Fiesel (United States)

PS06-28PM-291 INHIBITION OF LONG-TERM POTENTIATION BY SECRETOMES OF INDUCED PLURIPOTENT STEM CELL-DERIVED DOWN SYNDROME NEURONS: EFFECT OF DIFFERENT ANTI-TAU ANTIBODIES

Speaker: Igor Klyubin (Ireland)

PS06-28PM-292 RECOMBINANT VERSUS PATIENT-DERIVED SOLUBLE TAU: DISTINCT EFFECTS OF TAU ANTIBODIES ON DISRUPTION OF SYNAPTIC PLASTICITY IN VIVO

Speaker: Tomas Ondrejcak (Ireland)

PS06-28PM-293 NEW FLUORESCENT MOLECULAR PROBES FOR EX VIVO ASSESSMENT OF NEURODEGENERATIVE PROTEIN CONFORMATIONAL PATHOLOGY

Speaker: Lana Blinc (Slovenia)

PS06-28PM-294 IMPACT OF THE AT8 EPITOE PHOSPHORYLATION ON TAU AGGREGATION, PROPAGATION, AND NEUROTOXICITY

Speaker: Charbel Chahla (France)

PS06-28PM-295 UNRAVELING THE IMPACT OF TAU ON RETINAL DEVELOPMENT: INSIGHTS FROM HUMAN IPSC-DERIVED MODELS OF FRONTOTEMPORAL DEMENTIA (FTD)
**Scientific programme**

**Speaker:** Lorenza Mautone (Italy)

**PS06-28PM-296**

**SELECTIVE DETECTION OF NEUROFIBRILLARY TANGLES (NFTs) IN IPSC- Derived Retinal Cells and Postmortem Samples of Alzheimer’s Disease Patients’ Retina by a Novel Bodipy-Fluorescent Ligand.**

**Speaker:** Ylenia Gigante (Italy)

**PS06-28PM-297**

**Palmitic Acid Induces Posttranslational Modifications of Tau Protein in Alzheimer’s Disease-Related Epitopes and Increases Intraneuronal Tau Levels.**

**Speaker:** Valeria Melissa García Cruz (Mexico)

**Poster Sessions**

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**Poster Session 06 - Section 44**

**PS06-28PM-353**

**SUB-TOXIC DOSES OF GLYPHOSATE IMPAIR GABAERGIC SYNAPSES IN CULTURED HIPPOCAMPAL NEURONS**

**Speaker:** Giuseppe Chiantia (Italy)

**PS06-28PM-354**

**EFFECT OF GLYPHOSATE AT ACCEPTABLE DAILY INTAKE DOSE ON ASTROCYTES-NEURONS COMMUNICATION.**

**Speaker:** Debora Comai (Italy)

**PS06-28PM-355**

**ROLE OF GLYCINE RECEPTORS IN THE STRIATAL NETWORK**

**Speaker:** Neha Prasanna (Belgium)

**PS06-28PM-356**

**GLYCINE MODULATES THE EXCITABILITY OF MEDIUM SPINY NEURONS IN THE NUCLEUS ACCUMBENS THROUGH GPR158 ACTIVATION.**

**Speaker:** Marcello D’Ascenzo (Italy)

**PS06-28PM-357**

**REDUCING GABA\(_a\) RECEPTORS ACTIVATION THROUGH BICUCULINE TREATMENT IMPROVES NEUROINFLAMMATION IN CEREBELLUM OF HYPERAMMONEMIC RATS**

**Speaker:** Andrea Palomares Rodriguez (Spain)

**PS06-28PM-358**

**GABA\(_a\) RECEPTORS INDUCE PHASIC RELEASE FROM MEDIAL HABENULA TERMINALS THROUGH ACTIVITY-DEPENDENT RECRUITMENT OF RELEASE-READY VESICLES**

**Speaker:** Peter Koppensteiner (Austria)

**PS06-28PM-359**

**CELLULAR MECHANISMS AND EFFICACY OF HM4DI-DEPENDENT CHEMOGENETIC SILENCING IN THE DEVELOPING HIPPOCAMPUS**

**Speaker:** Arash Samiee (Germany)

**PS06-28PM-360**

**IN VITRO PHARMACOLOGICAL CHARACTERIZATION OF LIGANDS OF THE GROWTH HORMONE SECRETAGOGUE RECEPTOR (GHSR) USING THE DYNAMIC MASS REDISTRIBUTION AND CALCIUM MOBILIZATION ASSAYS**

**Speaker:** Chiara Ruzza (Italy)

**PS06-28PM-361**

**PRESYNAPTIC MECHANISMS UNDERLYING GABA\(_a\) RECEPTOR-MEDIATED HETEROSYNAPTIC DEPRESSION AT HIPPOCAMPAL MOSSY FIBER Bouton TO CA3 PYRAMIDAL NEURON SYNAPSES**

**Speaker:** Peipeng Lin (Austria)

**PS06-28PM-362**

**ROLE OF A5-GABA\(_a\) RECEPTORS FOR SPONTANEOUS NETWORK ACTIVITY IN THE DEVELOPING HIPPOCAMPUS**

**Speaker:** Lissy Liebeskind (Germany)

**PS06-28PM-363**

**AUTOCRINE AND PARACRINE ACTION OF SOMATOSTATIN**

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RELEASED BY O-LM INTERNEURONS ON THE CA1 FEEDBACK CIRCUIT

Speaker: Maria Laura Musella (France)

PS06-28PM-364 PROBES FOR THE HETEROGENEITY OF MUSCIMOL BINDING SITES IN RAT BRAIN

Speaker: Petra Scholze (Austria)

PS06-28PM-365 AUXILIARY GABAB RECEPTOR SUBUNIT KCTD16 ROLE IN NOCICEPTIVE SYNAPTIC TRANSMISSION

Speaker: Jiri Palecek (Czech Republic)

PS06-28PM-366 INSIGHTS INTO THE PHARMACOLOGICAL EFFECTS OF A NOVEL COMPOUND ON GLYCINE RECEPTOR FUNCTION

Speaker: César O. Lara Sanhueza (Chile)

PS06-28PM-367 INVESTIGATION OF GABA TRANSPORT AND THE GABA/NA+ RELATIONSHIP IN HUMAN GAT1 USING SOLID-SUPPORTED MEMBRANE-BASED ELECTROPHYSIOLOGY

Speaker: Elena Dragicevic (Germany)

PS06-28PM-368 STRUCTURAL AND FUNCTIONAL ANALYSIS OF ASTROCYTIC GABA TRANSPORTER GAT3 AS A THERAPEUTIC TARGET

Speaker: Rahaf Al-Masri (Turkey)

PS06-28PM-369 SUBCELLULAR LOCALIZATION OF GLYR2 IN SPINY PROJECTION NEURONS

Speaker: Yana Vella (Belgium)

PS06-28PM-370 ROLE OF GLUK1-CONTAINING KAINATE RECEPTORS IN THE DEVELOPMENT OF CORTICO-STRIATAL PROJECTIONS

Speaker: Margarita Komarova (Finland)

PS06-28PM-371 PHOTOPHARMACOLOGICAL CONTROL OF GABAERGIC NEUROTRANSMISSION

Speaker: Galyna Malieieva (Spain)

PS06-28PM-372 GLYCINE RECEPTORS REGULATE STRIATAL CHOLINERGIC INTERNEURONS AND DOPAMINE RELEASE

Speaker: Simon Bossi (United Kingdom)

PS06-28PM-373 ANTIPRURITIC EFFECT OF ENDOGENOUSLY INCREASED GABA BY BLOCKADE OF GAT1 IN A MOUSE MODEL OF CHRONIC ITCH

Speaker: Mitsuo Tanabe (Japan)

PS06-28PM-374 CHARACTERISATION OF MONOAMINE G-PROTEIN COUPLED RECEPTORS IN OCTOPUS VULGARIS

Speaker: Anna Jansson (United Kingdom)

PS06-28PM-375 GABA RDL RECEPTORS AS TARGETS FOR NOVEL NEGATIVE ALLOSTERIC MODULATORS WITH PORE-BLOCKING POTENTIAL

Speaker: Carlos F. Burgos (Chile)

PS06-28PM-376 THE ALANINE-SERINE-CYSTEINE-1 TRANSPORTER (ASC1) PROVIDES GLYCINE AT FAST INHIBITORY AUDITORY BRAINSTEM SYNAPSES

Speaker: Lina Hofmann (Germany)

PS06-28PM-377 AN INNOVATIVE STRATEGY TO IDENTIFY NEW CHEMICAL CLASSES OF GABA A5 RECEPTOR MODULATORS

Speaker: Nadia von Schoubye (Germany)

PS06-28PM-378 BERGMANN GLIA SUPPRESS PURKINJE CELL FIRING VIA INTERNEURONS

Speaker: Jaegeon Lee (Korea, Republic of)
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<td>Joanna Sandle (Hungary)</td>
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PS06-28PM-564 ALTERATIONS IN ACTIVITY-REGULATED INHIBITOR OF DEATH GENE EXPRESSION IN SPINOCEREBELLAR ATAXIA TYPE 2 AND TYPE 3

Speaker: Inês Afonso (Portugal)

PS06-28PM-565 CRISPR-MEDIATED APPROACHES FOR ATXN2 KNOCKDOWN IN SCA2 MODELS OF DISEASE.

Speaker: Rebekah Koppenol (Portugal)

PS06-28PM-566 MITIGATION OF POLYGLUTAMINE-INDUCED TOXICITY THROUGH DEPLETION OF TRMT2A IN AN MJD/SCA3 MOUSE MODEL

Speaker: Tiago Gomes (Portugal)

PS06-28PM-567 STRESS GRANULES: HOW THEY IMPACT SPINOCEREBELLAR ATAXIA TYPE 2?

Speaker: André Conceição (Portugal)

PS06-28PM-568 MECHANISMS OF SPINOCEREBELLAR ATAXIA TYPE 2 PATHOGENESIS: INSIGHTS FROM SMALL EXTRACELLULAR VESICLES

Speaker: Rafael Costa (Portugal)

PS06-28PM-569 MTSS1 AS A POTENTIAL PKCΓ MOLECULAR TARGET DURING PURKINJE CELL DEVELOPMENT IN A SPINOCEREBELLAR ATAXIA 14-MOUSE MODEL

Speaker: Paula Torrents Solé (Switzerland)

PS06-28PM-570 THE ROLE OF PROTEIN KINASE C GAMMA IN PURKINJE CELL DENDRITIC DEVELOPMENT AND SYNAPSE FORMATION

Speaker: Zsofia Sziber (Switzerland)

PS06-28PM-571 EVALUATION OF A POTENTIAL ROLE OF PAQR7 (MPRΑ) FOR PURKINJE CELL DENDRITIC DEVELOPMENT

Speaker: Anna Alikhanbeigi (Switzerland)

PS06-28PM-572 NMDAR-TRPM4 COUPLING DRIVES NEUROTOXICITY AND DISEASE PROGRESSION IN MODELS OF SPINOCEREBELLAR ATAXIAS

Speaker: David Brito (Portugal)

PS06-28PM-573 CHRONIC OTOTOXICITY INDUCES DOWNREGULATION OF HAIR CELL-SPECIFIC GENES IN THE VESTIBULAR SENSORY EPITHELIUM OF RODENTS

Speaker: Jordi Llorens (Spain)

PS06-28PM-574 POSTMORTEM CEREBELLAR VOLUME IS NOT REDUCED IN ESSENTIAL TREMOR: A COMPARISON WITH MULTIPLE SYSTEM ATROPHY AND CONTROLS

Speaker: Nathaniel Dunckley (United States)

PS06-28PM-575 TOTTERING MICE DISPLAY IRREGULAR FIRING OF PURKINJE NEURONS AND IMPAIRED MOTOR PERFORMANCE

Speaker: Filip de Souza Polli (Denmark)

PS06-28PM-576 GAL3 SUPPRESSION DELAYS THE MOTOR COORDINATION LOSS IN THE ATAXIC TAMBALEANTE MOUSE MODEL

Speaker: Rocío Ruiz (Spain)

PS06-28PM-577 STEREOLOGICAL EXPLORATION OF RETINAL MORPHOLOGY IN SIX-MONTH-OLD MICE WITH SPINOCEREBELLAR ATAXIA TYPE 1

Speaker: Olena Yakushko (Czech Republic)

PS06-28PM-578 CEREBELLAR PURKINJE CELLS CONTROL MOVEMENT AND
THEIR DEGENERATION CAUSES SPECIFIC GAITING DEFECTS

Speaker: Laurens Bosman (Netherlands)

PS06-28PM-579 SIMPLE MATHEMATICAL MODEL FOR REPLICATE THE ATP INDUCED CA\(^{2+}\) TRANSIENTS IN DIFFERENT TYPES OF COCHLEAR SUPPORTING CELLS

Speaker: Eszter Berekméri (Hungary)

PS06-28PM-580 CYP2C19 IN THE DEVELOPING BRAIN OF TRANSGENIC HUMANIZED KNOCK-IN MOUSE CAUSES MORPHOLOGICAL CHANGES IN THE CEREBELLUM, INCLUDING 11.8% ATROPHY

Speaker: Andrea Atanasov (Serbia)

PS06-28PM-581 MATHEMATICAL MODELLING OF ATP INDUCED CA\(^{2+}\) TRANSIENTS IN DEITERS CELLS CONSIDERING THE TONOTOPIC AXIS

Speaker: Fruzsina Fazekas (Hungary)

PS06-28PM-582 NETSSEQ ENHANCES THE UNDERSTANDING OF CEREBELLAR TRANSCRIPTOMIC CHANGES IN ATAXIA-TELANGIECTASIA

Speaker: Jenna Harvey (United Kingdom)

PS06-28PM-583 PURKINJE CELL VULNERABILITY DEPENDS ON ZEBRIN MOLECULAR IDENTITY AND CEREBELLAR LOCATION IN A CHRISTIANSON SYNDROME MOUSE MODEL

Speaker: Julia Tourbina-Kolomiets (Canada)

PS06-28PM-584 MITOCHONDRIAL DYSFUNCTION AND PURKINJE CELL LOSS IN CHRISTIANSON SYNDROME

Speaker: Atchaya S Kanagasabai (Canada)

PS06-28PM-585 CLINICAL AND MOLECULAR CHARACTERIZATION OF ATP1A1-RELATED CHARCOT-MARIE-TOOTH DISEASE

Speaker: Cheng-Tsung Hsiao (Taiwan)

PS06-28PM-586 ROLE OF CEREBELLAR NETWORK EXCITABILITY AND PLASTICITY IN THE PATHOPHYSIOLOGY OF DYSTONIA

Speaker: Francesco Mainardi (Italy)

PS06-28PM-587 A LOSS OF SPIRAL GANGLION NEURONS WITH AN ACTIVE ATOH1 ENHANCER ALTERS HEARING FUNCTION

Speaker: Kateryna Pysanenko (Czech Republic)
14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Scientific programme

Speaker: Ana Isabel Alvarez Lopez (Spain)
PS06-28PM-394  MELATONIN REDUCES NEUROINFLAMMATION AND AMELIORATES GUT DYSBIOSIS IN THE PRECLINICAL MOUSE MODEL OF PROGRESSIVE MULTIPLE SCLEROSIS  14:00 - 14:00

Speaker: Eduardo Ponce-España (Spain)
PS06-28PM-395  INFLAMMASOMES, M2 CELLS, LONG-NONCODING RNAs AND NANOncATTERS TO CHARACTERIZE MULTIPLE SCLEROSIS-ASSOCIATED SINGLE NUCLEOTIDE POLYMORPHISMS IN OLIGODENDROCYTES  14:00 - 14:00

Speaker: Taekyun Shin (Korea, Republic of)
PS06-28PM-396  VISUAL IMPAIRMENTS IN A MOUSE MODEL OF MULTIPLE SCLEROSIS: A TRANSCRIPTOMIC ANALYSIS  14:00 - 14:00

Speaker: Fabrizio Michetti (Italy)
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Speaker: Ting Sun (Sweden)
PS06-28PM-398  TARGETING PAC1 RECEPTORS TO PREVENT CNS WHITE MATTER INFLAMMATION, SYNAPSE LOSS AND Locomotor Deficits in the Cuprizone Demyelination Model  14:00 - 14:00

Speaker: Monique Marylin Alves de Almeida (Canada)
PS06-28PM-399  MIR-145 DEPLETION PROMOTES MYELIN REGENERATION IN A NOVEL MOUSE MODEL OF MULTIPLE SCLEROSIS  14:00 - 14:00

Speaker: Margo Jansen (Australia)
PS06-28PM-400  B CELL RECONSTITUTION AND THE ALTERATION OF IMMUNE CELL LANDSCAPE IN OCRELIZUMAB-TREATED PATIENTS WITH MULTIPLE SCLEROSIS  14:00 - 14:00

Speaker: Daniela Magalhães (Portugal)
PS06-28PM-401  MODULATION OF MOUSE HIPPOCAMPAL LIPIDOMIC SIGNATURE BY FTY720, A SPHINGOSINE-1-PHOSPHATE ANALOGUE USED FOR TREATING RELAPSING-REMITTING MULTIPLE SCLEROSIS  14:00 - 14:00

Speaker: Maurice Pagnin (Australia)
PS06-28PM-402  THE TRIAL OF SMALL MOLECULES TO PROMOTE RE-MYELINATION AND NEUROPROTECTION IN AN ANIMAL MODEL OF Demyelination and Neuroinflammation.  14:00 - 14:00

Speaker: Martino Bonato (Italy)
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Speaker: María Nazareth González Alvarado (Austria)
PS06-28PM-408 IMMUNE CELL PROFILING OF CEREBROSPINAL FLUID IN PATIENTS WITH NEUROINFLAMMATORY DISEASES USING MASS CYTOMETRY (CYTOF)

Speaker: Gerarda Gallaccio (Germany)

PS06-28PM-409 NR4A1 IS DOWNREGULATED IN HUMAN BRAIN MICROVASCULAR ENDOTHELIAL CELLS IN RESPONSE TO TWEAK STIMULATION

Speaker: Jehanne Aghzadi (France)

PS06-28PM-410 ROLE OF COMPLEMENT IN REGULATING GLUTAMATE TRANSMISSION IN AN EXPERIMENTAL MODEL OF MULTIPLE SCLEROSIS.

Speaker: Alice Taddeucci (Italy)

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Speaker: Rahimeh Emamnejad (Australia)

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Speaker: Isabelle Weinhofer (Austria)

PS06-28PM-413 ANALYSIS OF THE KALLIKREIN-KININ SIGNALING PATHWAY IN CORTICAL NEURONS

Speaker: Nicole Rychlik (Germany)

PS06-28PM-414 NOVEL POTENTIAL BIOMARKERS FOR MULTIPLE SCLEROSIS: EVALUATING THE EXPRESSION LEVELS OF MIR-141, MIR-9, MEG3, IFNG-AS1 AND THEIR RELATIONSHIP TO DIFFERENT LINC00513 POLYMORPHISMS

Speaker: Nada Sherif Amin (Egypt)

PS06-28PM-415 CHRONIC DEMYELINATING PATHOLOGY INDUCES LYOSOMAL EXHAUSTION AND DYSFUNCTION OF LIPID RECYCLING PATHWAYS IN MICROGLIA

Speaker: Stefan Berghoff (Germany)

PS06-28PM-416 METABOLOMICS PROFILING UNVEILS NOVEL INSIGHTS INTO MULTIPLE SCLEROSIS PATHOGENESIS

Speaker: Pinar Sengul (Turkey)

PS06-28PM-417 UNVEILING THE PROTEOMIC LANDSCAPE OF MULTIPLE SCLEROSIS: A COMPARATIVE ANALYSIS IN TWO MOUSE MODELS

Speaker: Sonsoles Barriola (Spain)

PS06-28PM-418 TOLL-LIKE RECEPTOR 4 (TLR4), A TARGET FOR CYTOPROTECTION AND (RE)MYELINATION IN MULTIPLE SCLEROSIS

Speaker: Miguel Marchena (Spain)

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PS06-28PM-336 ACTIVITY-DEPENDENT REGULATION OF CLUSTERED GAMMA PROTOCADHERINS (C-TPCDH) EXPRESSION DURING CIRCUIT ASSEMBLY IN PURKINJE CELLS

Speaker: Elena Baz Badillo (France)

PS06-28PM-337 PROTEOMIC AND TRANSCRIPTOMIC ANALYSIS OF ID2- AND -
ASCL4-INDUCED WIRING IN ADULT HIPPOCAMPAL GRANULE CELLS
Speaker: Charlotte Seng (Switzerland)

PS06-28PM-338 TEMPORAL DYNAMICS OF PRESYNAPTIC BRP AND POSTSYNAPTIC (GLURIIID) PROTEINS IN DROSOPHILA LARVAL SYNAPSES
Speaker: Rukiye Karatepe (Turkey)

PS06-28PM-339 VERY-LONG-CHAIN FATTY ACIDS ARE CRUCIAL TO NEURONAL POLARITY THROUGH LIPID RAFTS
Speaker: Michihiro Igarashi (Japan)

PS06-28PM-340 FATE MAPPING THE EARLIEST SUBSET OF NEURONS IN THE MOUSE CEREBELLAR NUCLEI
Speaker: Farshid Ghiyamihoor (Canada)

PS06-28PM-341 THE ROLE OF GABAERGIC INPUTS AND CHLORIDE TRANSPORTERS IN THE ACTIVATION AND DEATH OF DIFFERENT CAJAL-RETZIUS NEURON SUBPOPULATIONS
Speaker: Federico De Rosa (Germany)

PS06-28PM-342 UNDERSTANDING THE FUNCTIONS OF CLAUDINS IN PRIMARY NEURONS.
Speaker: Tripti Seth (India)

PS06-28PM-343 CONTACTIN2: MYELINATION DYNAMICS AND SYNAPTIC PLASTICITY IN HIPPOCAMPAL INTERNEURONS
Speaker: Sofia Petsangouraki (Greece)

PS06-28PM-344 A NEW TRANSGENIC MOUSE LINE FOR THE VISUALIZATION OF ENDOGENOUS BIOTINYLATED NEUROLIGIN-1
Speaker: Charles Ducrot (France)

PS06-28PM-345 SPATIOTEMPORAL DISTRIBUTION OF APOPTOSIS ACROSS THE DEVELOPING MURINE CORTEX
Speaker: Anne Sinning (Germany)

PS06-28PM-346 EMERGENCE OF CEREBELLAR SPONTANEOUS ACTIVITY PATTERNS DURING EMBRYONIC AND POSTNATAL DEVELOPMENT
Speaker: Martina Riva (Spain)

PS06-28PM-347 LOCAL NEURONAL SILENCING AND ITS EFFECTS ON CORTICAL ACTIVITY AND DEVELOPMENTAL CELL DEATH
Speaker: Elena Nigi (Germany)

PS06-28PM-348 TRANSCRIPTIONAL COACTIVATORS SHUTTLE BETWEEN NEURONAL IDENTITY AND ACTIVITY-DRIVEN REGULATORY REGIONS DURING NEURONAL ACTIVATION
Speaker: Sergio Niñerola (Spain)

PS06-28PM-349 CYPIN REGULATES SYNAPTIC CONTENT VIA K63-LINKED POLYUBIQUITINATION
Speaker: Bonnie Firestein (United States)

PS06-28PM-350 FLOOR PLATE CYTONEME SIGNALING IS REQUIRED FOR COMMISSURAL AXON GUIDANCE
Speaker: Alexandre Dumoulin (Switzerland)

PS06-28PM-351 A NEW ROLE OF KAINATE RECEPTORS AS SYNAPTIC ORGANIZERS FOR CLIMBING FIBER-PURKINJE CELL SYNAPSES IN THE CEREBELLUM
Speaker: Ana V. Paternain (Spain)

PS06-28PM-352 AN UNCONVENTIONAL PARACRINE PATHWAY FOR THE
DEVELOPMENT AND MAINTENANCE OF SYNAPTIC INHIBITION AT A CENTRAL SYNAPSE

Speaker: Zhiqiang Liu (Netherlands)

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PS06-28PM-062 Prenatal Ethanol Exposure Induces Long-Term Hippocampal Ampergic Dysfunction

Speaker: Lorenzo Curti (Italy)

PS06-28PM-063 Prenatal Alcohol Exposure (PAE) Leads to Dysfunctional Formation of Excitatory Synapses and Social Impairments in Adolescent Mice

Speaker: Elisabetta Gerace (Italy)

PS06-28PM-064 Neurotrophins in Adolescent Brain Rat Are Not Altered by Methamphetamine Exposure During Early Postnatal Period

Speaker: Romana Šlamberová (Czech Republic)

PS06-28PM-065 Does Methamphetamine Exposure Alter Hippocampal Neurogenesis During Preweaning Period of Laboratory Rat?

Speaker: Barbora Čechová (Czech Republic)

PS06-28PM-066 Exploring the Role of Omega-3/Omega-6 Balance in Long-Lasting Changes in Microglia Caused by Intermittent Alcohol Consumption During Adolescence

Speaker: Garazi Ocerin (Spain)

PS06-28PM-067 Omega-3 Fatty Acids Potentiate the Endocannabinoid-Dependent Synaptic Plasticity Lost After Adolescent Binge Drinking in Male Mouse Dentate Gyrus

Speaker: Maitane Serrano (Spain)

PS06-28PM-068 Maternal Immune Activation Increases Goal-Tracking, Impairs Decision-Making and Lowers Preference for Ethanol Over an Alternative Reward in Rats

Speaker: Alejandro Higuera-Matas (Spain)

PS06-28PM-069 Differential Neuroinflammatory Responses to Immune Challenges in Male and Female Rats Prenatally Exposed to Alcohol

Speaker: Carolina Luft (Canada)

PS06-28PM-070 Neonatal Handling Age-Dependently Modulates Social Interaction, Prepulse Inhibition and Frontocortical Expression of Synaptic and Neuroplasticity Markers in a Genetic Rat Model of Schizophrenia-Relevant Features

Speaker: natalia peralta (Spain)

PS06-28PM-071 A Maternal Diet Enriched with African Walnuts Confers Neurodevelopmental Resilience to Mncl2-Induced Neurotoxic Cascades in Rats

Speaker: Tolulope Arogundade (Nigeria)

PS06-28PM-072 The True Cost of Air Pollution on Neurodevelopmental Disorders: Postnatal PM10 Exposure Impairs Normal Development in Transgenic Apoe Mice

Speaker: Rocío Rodulfo Cárdenas (Spain)
IMPAIRED EXPRESSION OF THE PLACENTAL ANGIogenic FACTOR CD146 BY PRENATAL ALCOHOL EXPOSURE RESULTS IN DISORGANIZED FOetal BRAIN VASCULATURE AND NEOndevelopmental DEFects

Speaker: Maryline Lecointre (France)

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Speaker: Anthony Falluel-Morel (France)

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Speaker: Anaïs Vignon (France)

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Speaker: Margot Debris (France)

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Speaker: Hongbo Wang (Japan)

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Speaker: Aaron Barron (Finland)

EFFECT OF MATERNAL IMMUNE ACTIVATION ON RAT PUP DEVELOPMENT

Speaker: Klára Tučková (Czech Republic)

MINOCYCLINE RESCUE SELECTIVELY HIPPOCAMPUS MGLUR1/5-LTD IN ADOLESCENT RAT AFTER REPEATED ETHANOL EXPOSURE

Speaker: Olivier Pierrefiche (France)

EFFECT OF CHRONIC PRENATAL EXPOSURE TO VAPORIZED CANNABIS ON THE DEVELOPMENT AND FUNCTIONALITY OF THE HIPPOCAMPUS.

Speaker: Andrea Cairus (Uruguay)

IMPACT OF VARYING MATERNAL PERIGESTATIONAL DIETARY FOLATE INTAKE ON THE DEVELOPMENT OF CEREBELLAR CORTEX IN RAT OFFSPRING

Speaker: Philip Mwachaka (Kenya)

MATERNAL INFECTION DURING PREGNANCY INDUCES FETAL NEUROinFLAMMATION, ASSOCIATED WITH PREMATURE OLIGODENDROCYTE DIFFERENTIATION AND MYELIN FORMATION, DRIVEN BY EPIGENETIC CHANGES IN OLIGODENDROCYTE-SPECIFIC GENES.

Speaker: Rebecca Woods (United Kingdom)

HEAVY ALCOHOL DRINKING DURING ADOLESCENCE COMPROMISES GABAergic INHIBITION IN ADULT MOUSE DENTATE GYRUS GRANULE CELLS

Speaker: Fang Zheng (Germany)

IMPACT OF ADVANCED PARENTAL AGE IN THE SUSCEPTIBILITY OF OFFSPRING TO NEURODEGENERATIVE DISEASES

Speaker: Jyoti Mishra (India)
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Scientific programme

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Speaker: Csaba Horváth (Hungary)
PS06-28PM-429 A HIGH-THROUGHPUT SINGLE-CELL STIMULATION PLATFORM TO STUDY PLASTICITY IN ENGINEERED NEURAL NETWORKS IN VITRO
14.00 - 14.00

Speaker: Benedikt Maurer (Switzerland)
PS06-28PM-430 A THREE-DIMENSIONAL LAMINAR ELECTRODE ARRAY FOR SEMI-CHRONIC NEURAL RECORDINGS IN HUMAN CORTEX
14.00 - 14.00

Speaker: Robert Averkin (Hungary)
PS06-28PM-431 A NOVEL PLATFORM TO EMBODY AND MAINTAIN IN VITRO NEURONS IN SIMULATED ENVIRONMENTS THROUGH REAL-TIME CLOSED-LOOP ELECTROPHYSIOLOGICAL RECORDING AND STIMULATION
14.00 - 14.00

Speaker: Brett Kagan (Australia)
PS06-28PM-432 ADVANCING LONG-TERM VIABILITY OF NEURO-IMPLANTS THROUGH QUALITY-BASED EVALUATION
14.00 - 14.00

Speaker: Charlotte Sielaff (Germany)
PS06-28PM-433 INTEGRATION OF ELECTRIC CIRCUITS INTO TAILOR-MADE 3D NANOPRINTED MICROSCAFFOLDS FOR NEURONAL NETWORK CULTIVATION
14.00 - 14.00

Speaker: Malte Siegmund (Germany)
PS06-28PM-434 AN EVENT-BASED DATA COMPRESSIVE TELEMETRY FOR HIGH-BANDWIDTH INTRACORTICAL BRAIN-COMPUTER INTERFACES
14.00 - 14.00

Speaker: Hua-Peng Liaw (Netherlands)
PS06-28PM-435 NEXT-GENERATION ELECTROPHYSIOLOGY FOR FUNCTIONAL CHARACTERIZATION OF HUMAN NEURAL ORGANOIDS
14.00 - 14.00

Speaker: Laura D'ignazio (Switzerland)
PS06-28PM-436 OPTIMIZATION OF A MULTIPLEXED, CELL-BASED ASSAY OF NEURONAL FUNCTION
14.00 - 14.00

Speaker: Johny Pires (Netherlands)
PS06-28PM-437 EXPLORING SIGNAL PROCESSING COMPARTMENTALIZATION IN THE CEREBELLAR CIRCUIT USING A HIGH-DENSITY MULTIELECTRODE ARRAY
14.00 - 14.00

Speaker: Yuhe Li (Italy)
PS06-28PM-439 BRIDGING IN VIVO AND IN VITRO RECORDINGS IN THE HUMAN EPILEPTIC NEOCORTEX: PATIENT-WISE COMPARATIVE ANALYSIS OF SINGLE-UNIT ACTIVITIES
14.00 - 14.00

Speaker: Réka Bod (Hungary)
PS06-28PM-440 DYNAMICS IN HUMAN CORTICAL CULTURES: A NEW ERA FOR INDIVIDUALS WITH EPILEPSY?
14.00 - 14.00

Speaker: Christopher Currin (Austria)
PS06-28PM-441 MINIMALLY INVASIVE IN-VIVO INTRALUMINAL ELECTROPHYSIOLOGICAL RECORDINGS FROM THE MOUSE COLON
14.00 - 14.00

Speaker: Aleksander Sobolewski (Switzerland)
PS06-28PM-442 SCIENTIFICA PATCHSCOPE PRO: AN INTEGRATED CALCIUM-IMAGING AND PATCH-CLAMP SYSTEM SUITABLE FOR SELECTING SPECIFIC SUBSETS OF NEURONS FOR ELECTROPHYSIOLOGICAL RECORDINGS
14.00 - 14.00

Speaker: Federico Olivero (United Kingdom)
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PS06-28PM-106 DISCOVERING THE INDIVIDUAL DIFFERENCES IN SHARED REPRESENTATIONS OF NEURAL DYNAMICS AND ETHOLOGICAL BEHAVIORS

Speaker: Felix Taschbach (United States)

PS06-28PM-107 STABILITY OF SOCIAL BONDS OVER TIME- MEASURED IN MICE TESTED UNDER SEMI-NATURALISTIC CONDITIONS

Speaker: Maria Kalinowska (Poland)

PS06-28PM-108 INDIVIDUAL AND SOCIAL CONTRIBUTIONS TO MICE LEARNING IN INTELICAGES

Speaker: Daniel Wójcik (Poland)

PS06-28PM-109 A FUNCTIONAL NETWORK ANALYSIS OF THE MOUSE BRAIN: INSIGHTS INTO SEXUAL IMPRINTING

Speaker: Alessandra Stella (Italy)

PS06-28PM-110 THE MODIFIED ELEVATED GAP INTERACTION TEST: A NOVEL PARADIGM TO ASSESS SOCIAL PREFERENCE.

Speaker: Lieke Kros (Netherlands)

PS06-28PM-111 NEURAL REPRESENTATION OF SOCIAL CONSPECIFICS DURING FREELY MOVING BEHAVIOR

Speaker: Cristina Mazuski (United Kingdom)

PS06-28PM-112 ENHANCED CONNECTIVITY DURING OTHERS’ PRESENCE: UNVEILING SOCIAL FACILITATION ACROSS BRAIN SCALES VIA PROBABILITY INFERENC

Speaker: Amirhossein Esmaeili (France)

PS06-28PM-113 MENTALISING UNDERLIES STRATEGIC COORDINATION IN GUINEA BABOONS (PAPIO PAPIO)

Speaker: Toan Nong (France)

PS06-28PM-114 SHARING THE SPOTLIGHT: UNCOVERING COMMON ATTENTIONAL DYNAMICS ACROSS SPECIES

Speaker: Iuliia Glukhova (Germany)

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PS06-28PM-162 DIFFERENT MECHANISMS UNDERLIE COMPULSIVE ALCOHOL SELF-ADMINISTRATION IN MALE AND FEMALE RATS

Speaker: Esi Domi (Sweden)

PS06-28PM-163 ROLE OF PROGESTERONE ON CUE-INDUCED COCAINE SEEKING IN RATS

Speaker: Claudia Fornari (France)

PS06-28PM-164 MECHANISMS OF LITHIUM-INDUCED THIRST

Speaker: Dejiao Xu (China)

PS06-28PM-165 EFFECTS OF REPEATED STIMULATION OF CB1 RECEPTORS IN THE NUCLEUS ACCUMBENS AND IN THE LATERAL HYPOTHALAMUS ON LONG-TERM FOOD PREFERENCE IN ADOLESCENT RATS

Speaker: Emmanuelle Person (Canada)

PS06-28PM-166 UNRAVELING THE ROLE OF PARAVENTRICULAR THALAMIC GLUCAGON-LIKE PEPTIDE-1 RECEPTORS ON ALCOHOL-RELATED BEHAVIORS IN RODENTS
**Scientific programme**

**Speaker:** Cajsa Aranäs (Sweden)

**PS06-28PM-167** SOCIAL DRINKING: REWARD-RELATED BRAIN FUNCTION AND DAILY LIFE CORRELATES

**Speaker:** Oksana Berhe (Germany)

**PS06-28PM-168** THE LONG-TERM EFFECTS OF ADOLESCENT SOCIAL STRESS ON ALCOHOL-RELATED BEHAVIORS IN ADULTHOOD.

**Speaker:** Sofia Vellere (Italy)

**PS06-28PM-169** INVOLVEMENT OF THE BASOLATERAL AND CENTRAL AMYGDALA IN STRESS-INDUCED ETHANOL INTAKE IN FEMALE MICE

**Speaker:** Vernon Garcia-Rivas (United States)

**PS06-28PM-170** AN AUTOMATED GROUP-HOUSED ORAL FENTANYL SELF-ADMINISTRATION METHOD IN MICE

**Speaker:** Noa Perez-Rivlin (Israel)

**PS06-28PM-171** PLASMA CORTISOL LEVELS OF MALE AND FEMALE RATS WITH DIFFERENT LEVEL OF EXPERIENCE WITH ETHANOL

**Speaker:** Lourdes de la Torre (Spain)

**PS06-28PM-172** CHRONIC COCAINE EXPOSURE MODULATES DECISION-MAKING IN MICE IN A SEX-DEPENDENT MANNER

**Speaker:** Abhishek Shankar Balakrishnan (Denmark)

**PS06-28PM-173** CHRONIC ALCOHOL INTOXICATION INDUCES SOCIAL DOMINANCE AND AGGRESSIVE BEHAVIOR IN MALE MICE. MECHANISTIC AND THERAPEUTIC APPROACH

**Speaker:** Mohamed zahran (Spain)

**PS06-28PM-174** SEXUAL DIMORPHISM IN COMPULSIVE ALCOHOL DRINKING AND ITS IMPACT ON PATHOLOGICAL GAMBLING AND SOCIAL DOMINANCE: A PRECLINICAL STUDY

**Speaker:** Manuela Olmedo Córdoba (Spain)

**PS06-28PM-175** BMAL1 IN THE DORSOMEDIAL STRIATUM AFFECTS ALCOHOL CONSUMPTION, AFFECTIVE BEHAVIOR AND MOTOR FUNCTION SEX-SPECIFICALLY IN MICE.

**Speaker:** Mahgol Darvishmolla (Canada)

**PS06-28PM-176** ROLE OF PRDM2 THROUGH THE PREFRONTAL PROJECTION IN STRESS-INDUCED REINSTATEMENT OF ALCOHOL SEEKING: AN EPIGENETIC MECHANISM WITH TRANSLATIONAL POTENTIAL

**Speaker:** Kanat Chanthongdee (Sweden)

**PS06-28PM-177** THE MU-OPIOID RECEPTORS IN THE VENTRAL TEGMENTAL AREA CONTRIBUTE TO THE HIGH HEROIN PREFERENCE SHOWN BY MARCHIGIAN SARDINIAN ALCOHOL PREFERING RATS

**Speaker:** Hela Mrizak (Italy)

**PS06-28PM-178** SELECTIVE INHIBITION OF PHOSPHODIESTERASE 7 ENZYMES REDUCES ALCOHOL DRINKING AND SEEKING IN ANIMAL MODELS OF ALCOHOL USE DISORDERS

**Speaker:** Martina Palma (Italy)

**PS06-28PM-179** CAPTURING THE BENZODIAZEPINE TOLERANCE IN MICE: TREATMENT DURATION AND GENDER AS KEY DETERMINANTS

**Speaker:** Fatma Taha (United Kingdom)

**PS06-28PM-180** EXAMINATION OF ADOLESCENT CANNABINOID VAPOUR EXPOSURE EFFECTS ON BEHAVIOURAL PREDICTORS OF ADDICTION AND ALCOHOL USE DISORDER FEATURES IN ADULT MALE AND FEMALE RATS

**Speaker:** Jairo Steffan Acosta-Vargas (Spain)
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Speaker: Alexander Reichenbach (Australia)
PS06-28PM-313 PRIMING THE SENSES: HUNGER’S INFLUENCE ON OLFACUTION, BEHAVIOUR, AND PHYSIOLOGICAL RESPONSES

Speaker: Romana Stark (Australia)
PS06-28PM-314 EXTRACELLULAR VESICLES FROM HYPOTHALAMIC ASTROCYTES MODIFY TRANSCRIPTION FACTORS OF THE LEPTIN SIGNALING PATHWAY IN PROOPOMELANOCORTIN (POMC) NEURONS.

Speaker: Alfonso Gómez Romero (Spain)
PS06-28PM-315 PHYSICAL ACTIVITY SENSITIZES VAGAL GUT-BRAIN COMMUNICATION UNDERLYING FEEDING CONTROL

Speaker: Diba Borgmann (Denmark)
PS06-28PM-316 LATERAL HYPOTHALAMIC NEUROTENSIN-EXPRESSING NEURONS SHAPE THE BALANCE BETWEEN DRINKING, FEEDING AND SOCIALIZING

Speaker: Chantal Wissing (Germany)
PS06-28PM-317 AN OBESITY-ASSOCIATED SWITCH IN VAGAL GUT-BRAIN COMMUNICATION MODULATES FEEDING BEHAVIOR

Speaker: Leonie Cabot (Germany)
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Speaker: Inigo Ruiz de Azua (Germany)
PS06-28PM-319 SIK3 IN DIFFERENT HYPOTHALAMIC AREAS MEDIATES WHOLE-BODY ENERGY BALANCE

Speaker: Patricia Seoane-Collazo (Spain)
PS06-28PM-320 MOLECULAR CONNECTOMICS REVEALS A GLUCAGON-LIKE PEPTIDE 1 SENSITIVE NEURAL CIRCUIT FOR SATIETY

Speaker: Addison Webster (United States)
PS06-28PM-321 EXPOSURE TO FOOD-ASSOCIATED SENSORY CUES DURING DEVELOPMENT PROGRAM CENTRAL RESPONSE TO FOOD AND OBESITY

Speaker: Laura Casanueva Reimon (Germany)
PS06-28PM-322 THE Dopamine DIALOGUE: GLP1R AGONISM SUPPRESSES NUCLEUS ACCUMBENS Dopamine RELEASE AND FOOD INTAKE

Speaker: Lotus Jeffs (Australia)
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Speaker: Michael Crossley (United Kingdom)
PS06-28PM-324 CENTRAL ACTIONS OF LEPTIN SENSITIZER CELASTROL

Speaker: Miriam Bernecker (Germany)
PS06-28PM-325 A FOOD-SENSITIVE OLFACTORY CIRCUIT DRIVES ANTICIPATORY SATIETY

Speaker: Janice Bulk (Germany)
PS06-28PM-326 BUTYRYLCHOLINESTERASE IS LINKED TO OBESITY BUT DOES NOT REGULATE THE APPETITE AND GLUCOSE METABOLISM

Speaker: Tibor Hodbod (Slovakia)
PS06-28PM-327 THE KETOGENIC DIET SUPPRESSES APPETITE ALTERING
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HYPOTHALAMUS OF DIET-INDUCED OBESE AND LEAN MICE

Speaker: Mateusz Grabowski (Poland)

PS06-28PM-328 CHEMOGENETIC INHIBITION OF THE LATERAL HYPOTHALAMIC
AREA TO DECREASE FOOD INTAKE IN RATS: A PROOF-OF-
CONCEPT STUDY AND THE OPTIMIZATION OF TECHNICAL
PARAMETERS

Speaker: Zsolt Kristóf Bali (Hungary)

PS06-28PM-329 PLASTICITY ON NAC LH-PROJECTORS IN HIGHLY-PALATABLE-
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Speaker: Xia Wang (Switzerland)

PS06-28PM-330 OXYTOCIN AND LEPTIN CROSSTALK IN THE REGULATION OF
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Speaker: Chiara Galli (Italy)

PS06-28PM-331 ROLE OF EPHRINB3 IN POMC NEURONS IN THE CONTROL OF
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Speaker: Clémentine Pajot (Switzerland)

PS06-28PM-332 IMPAIRMENT OF AGRP NEURONS INFLUENCE BODY WEIGHT,
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Speaker: Bence Racz (Hungary)

PS06-28PM-333 INHIBITORY CONTROL FOR FOOD THROUGHOUT THE
MENSTRUAL CYCLE

Speaker: Koyuki Ikarashi (Japan)

PS06-28PM-334 NICOTINE SUPPRESSES FEEDING BEHAVIOR BY EXERTING
OPPOSITE EFFECTS ON THE NEURONAL ACTIVITY OF THE
ARCULATE NUCLEUS.

Speaker: José Enrique Ramírez Sánchez (Mexico)

PS06-28PM-335 HINDBRAIN REGULATION OF STRESS AND CUE-INDUCED
APPETITIVE BEHAVIOUR

Speaker: Zhi Yi Ong (Australia)

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PS06-28PM-588 ASSESSMENT OF METABOLOME IN THE TUMOR
MICROENVIRONMENT BY CEREBRAL OPEN FLOW
MICROPERFUSION (COFM) IN A HUMAN GliOBlastoma
XENOGRafT ANIMAL MODEL.

Speaker: Thomas Altendorfer-Kroath (Austria)

PS06-28PM-589 TUMOR TISSUE METABOLOMICS INFORMS METABOLIC
REPROGRAMMING IN IDH WILD-TYPE GIOMAS

Speaker: Fernanda Monedeiro (Austria)

PS06-28PM-590 MACHINE LEARNING IDENTIFIES POTENTIAL ANTI-
GliOBlastoma SMALL MOLECULES

Speaker: Amirhomayoun Atefi (Iran)

PS06-28PM-591 AI-DRIVEN IMAGE ANALYSIS FOR LABEL-FREE QUANTIFICATION
OF CHEMOTHERAPEUTIC CYTOTOXICITY IN GLIAL CELLS

Speaker: Jasmine Trigg (United Kingdom)

PS06-28PM-592 COFFEE-DERIVED EXOSOME-LIKE NANOPARTICLES EFFECT
CELL VIABILITY AND CELL DEATH DIFFERENTLY OF NEURAL
CREST-DERIVED AND GLIAL TUMOR CELLS

Speaker: Ela Doruk Korkmaz (Turkey)
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Speaker: Jérémy Signoret-Genest (Germany)

THREAT-DEPENDENT CARDIAC INTEROCEPTIVE SIGNALLING BY GLYCINERGIC PERIAQUEDUCTAL GREY NEURONS

Speaker: Sara Reis (Portugal)

HYPOTHALAMIC-THALAMIC PATHWAYS ENABLE LEPTIN TO REGULATE SOCIAL AND SEXUAL BEHAVIOURS

Speaker: Anne Petzold (Germany)

MOLECULAR AND NEURONAL MECHANISMS OF BEHAVIOURAL INTEGRATION IN THE EXTENDED-AMYGDALA

Speaker: Federica Fermani (Germany)

RECORDING CORTICO-HYPOTHALAMIC PROJECTION NEURON ACTIVITY IN MICE LIVING IN AN AUTOMATED NATURALISTIC OPEN-DESIGN MAZE

Speaker: Clara Hartmann (Netherlands)

A ROLE OF PREFRONTAL INPUTS TO LATERAL HYPOTHALAMUS IN COPING WITH STRESS

Speaker: Alisa Bakhareva (Germany)

ELEVATED REACTIVE AGGRESSION IN FOREBRAIN-SPECIFIC CCN2 KNOCKOUT MICE

Speaker: Li-Jen Lee (Taiwan)

INTERMALE AGGRESSION IS INHIBITED BY POSTERIOR INTRALAMINAR THALAMIC NEURONS IN RATS

Speaker: Tamás Láng (Hungary)

EXPLORING THE EMOTIONAL SIDE OF TICKLISHNESS: INSIGHTS FROM INSULAR NEURONS

Speaker: Sarah Dagher (Germany)

ADULT NEUROGENESIS REGULATES SOCIAL DOMINANCE AND ANXIETY

Speaker: Fabio Grieco (Switzerland)

THE DYNAMIC STATE OF A PREFRONTAL-HYPOTHALAMIC-MIDBRAIN CIRCUIT COMMANDS BEHAVIOURAL TRANSITIONS

Speaker: Mahsa Altafi (Germany)

NEUROTENSIN AND SOMATOSTATIN CELLS OF LATERAL SEPTUM ARE INVOLVED IN THE COMPLEMENTARY REGULATION OF SOCIAL AND FEEDING BEHAVIORS

Speaker: Dávid Keller (Germany)

BIDIRECTIONAL CONTROL OF BLA-DMS AND PFC-DMS PROJECTIONS ON INNATE AVOIDANCE BEHAVIOUR IN MICE

Speaker: Luca Fralleoni (Italy)

ENTORHINAL-AMYGDALA CIRCUITS SAFEGUARD SPATIAL OBJECT NAVIGATION

Speaker: Łukasz Piszczek (Austria)

HYPOTHALAMIC CIRCUITS REGULATING HOME-DRIVEN AFFECTIVE BEHAVIORS

Speaker: Xiaoya Su (China)

A POPULATION OF INSULA NEURONS ENCODES FOR SOCIAL PREFERENCE DURING SOCIAL ISOLATION

Speaker: Christelle Glangetas (France)
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**Scientific programme**

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**PS06-28PM-463**

DUAL ROLE OF THE MESENCEPHALIC LOCOMOTOR REGION IN MODULATING VISUALLY EVOKED ESCAPE RESPONSE

**Speaker:** Divya Rao (Denmark)

**PS06-28PM-464**

MODELING THE TAIL-TO-LIMB-BASED SWIMMING TRANSITION IN THE XENOPUS FROG

**Speaker:** Alexia Wilson (Austria)

**PS06-28PM-465**

ACTIVITY OF CORTICOSPINAL NEURONS DURING LOCOMOTION IN MICE

**Speaker:** Léa Favier (France)

**PS06-28PM-466**

DISTRIBUTED ENCODING OF MOTOR COMMANDS MEDIATES RESPONSE TO ENVIRONMENTAL CONFINEMENT AND ESCAPE FROM PREDATORS

**Speaker:** Stephanie Josephine Eder (Austria)

**PS06-28PM-467**

GENETIC SCREEN OF CARDINAL INTERNEURON FUNCTION IN SWIM AND LIMB BEHAVIOR OVER FROG METAMORPHOSIS.

**Speaker:** Florina Alexandra Toma (Austria)

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**Poster Sessions**

**Poster Session 06 - Section 14**

**14:00 - 17:30**

**Posters**
Scientific programme

Speaker: Fabrizia Cesca (Italy)
PS06-28PM-217  SEMA-GENE MODULATION AS A STRATEGY TO IDENTIFY DRUGGABLE TARGETS FOR THE TREATMENT OF CHARGE SYNDROME

Speaker: Federica Amoruso (Italy)
PS06-28PM-218  LOCALIZATION AND FUNCTION OF THE NA+/H+ EXCHANGER NHE6 (SLC9A6) IN PRIMARY NEURONS

Speaker: Lara Sach (Denmark)
PS06-28PM-219  UNRAVELING SLC13A5 AND CITRATE METABOLISM IN DEVELOPMENTAL EPILEPTIC ENCEPHALOPATHIES

Speaker: Vittoria Mariano (Austria)
PS06-28PM-220  ALLAN-HERNDON-DUDLEY SYNDROME - UNCOVERING DISEASE MECHANISMS OF MCT8-DEFICIENCY IN THE HYPOTHYROID DEVELOPING BRAIN USING SNRNASEQ

Speaker: Anna Molenaar (Germany)
PS06-28PM-221  HIGH-SENSITIVITY QUANTIFICATION OF AAV NEUTRALIZATION FROM PRECLINICAL MODEL AND HUMAN SERA

Speaker: Ludovica Iovino (Italy)
PS06-28PM-222  DEVELOPING GENE THERAPY VECTOR FOR THE TREATMENT OF CREATINE TRANSPORTER DEFICIENCY SYNDROME

Speaker: Enes Yagiz Akdas (Germany)
PS06-28PM-223  INSIGHTS INTO CTBP1 DYSFUNCTION IN HADDTS: LINKING THE METABOLIC AND NEURODEVELOPMENTAL DYSFUNCTION

Speaker: Jan Themann (Austria)
PS06-28PM-224  THE IMPACT OF AUTISM SPECTRUM DISORDER-RISK GENES ON HUMAN NEURAL STEM CELL PROLIFERATION AND SURVIVAL

Speaker: Francesca Barbieri (Italy)
PS06-28PM-225  PATIENT-DERIVED IPSC MODELING OF PRADER-WILLI SYNDROME

Speaker: Simone Alberti (Italy)
PS06-28PM-226  CLINICAL AND GENETIC SPECTRUM OF CHILDHOOD-ONSET LEUKODYSTROPHIES: FINDINGS FROM AN IN-HOUSE TARGETED GENE PANEL STUDY

Speaker: YASHU SHARMA (India)
PS06-28PM-227  DOPAMINERGIC TREATMENTS FOR AUTISTIC-LIKE BEHAVIOUR IN LYSOSONAL STORAGE DISORDERS: PRECLINICAL AND CLINICAL EVIDENCE

Speaker: Maria De Risi (Telethon Institute of genetics and Medicine (TIGEM), Fondazione Telethon, Italy)
PS06-28PM-228  "ANALYSIS OF THE IMPACT OF MNCL2 PRESENT IN ATMOSPHERIC PARTICULATES ON SYNAPTIC DEVELOPMENT USING BRAIN MODELS BASED ON HIPSCS DERIVED NEURONS"

Speaker: Erica Debbi (Italy)
PS06-28PM-229  A SINGLE CELL MULTIMIC ATLAS OF HUMAN CORTICAL DEVELOPMENT IN DOWN SYNDROME IDENTIFIES CANDIDATE MECHANISMS UNDERLYING INTELLECTUAL DISABILITY

Speaker: Michael Lattke (United Kingdom)
PS06-28PM-230  ESTABLISHING AN EXPERIMENTAL sgrna EXPRESSION
SCREENING ASSAY FOR CRISPR ACTIVATION IN VITRO

Speaker: Elin Arvidsson (Sweden)

MECHANISMS AND THERAPEUTIC APPROACHES FOR SETD5 SYNDROME

Speaker: Georgia Chaldaiopoulou (United States)

CYSTATHIONINE BETA-SYNTHASE AND H₂S LEVELS ARE INCREASED IN CELLULAR MODELS OF TRISOMY 21

Speaker: Rafaela Agostinho (Portugal)

DYSREGULATION OF FLVCR1-DEPENDENT MITOCHONDRIAL CALCIUM HANDLING IN NEURAL STEM CELLS CAUSES CONGENITAL HYDROCEPHALUS.

Speaker: Diletta Isabella Zanin Venturini (Italy)

THE ROLE OF THE ASD-ASSOCIATED 16P11.2 GENE QPRT DURING DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELL- DERIVED CEREBRAL ORGANOIDS

Speaker: Denise Haslinger (Germany)

Convergence and Segregation of Afferents in the Paraventricular Thalamic Nucleus

Speaker: Zsolt Buday (Hungary)

Excitatory and Inhibitory Inputs and of the Paraventricular Thalamic Nucleus

Speaker: Kata Kóta (Hungary)

Large-Scale Single Unit Recordings in the Dorsal Midline Thalamus in Naturally Behaving Mice

Speaker: Gergely Komlosi (Hungary)

A Posterior Thalamic Neuronal Group Projects to the Mouse Subcortex to Shape Motor Behavior

Speaker: Csenge Tóth-Kőrösi (Hungary)

Functional Organization of Medial Entorhinal Cortex Layer VI

Speaker: Märt Rannap (Germany)

Inhibition of Prefrontal-Projecting Claustrum Neurons by Basolateral Amygdala

Speaker: Ivan Lazarte (United Kingdom)

Shared Anatomical Principles of the Projections from the Higher-Order Thalamus to the Cortex

Speaker: Andreas Huth (Germany)

Thalamic Ensemble Activity During Distinct Behaviors

Speaker: Avi Adlakha (Germany)

Projections from the Ventral Nucleus of the Trapezoid Body to All Subdivisions of the Rat Cochlear Nucleus

Speaker: Mario Gómez Martínez (Spain)

Connectome of the Non-Human Primate Claustrum Reveals a Hub Function for Orchestrating Inter-Areal Processing

Speaker: Julien Vezoli (France)
PS06-28PM-504  3D ULTRASTRUCTURAL CONTRIBUTIONS TO THE CONNECTIVITY OF THE HUMAN CEREBRAL CORTEX
Speaker: Nicolas Cano-Astorga (Spain)

PS06-28PM-505  SUBCORTICAL NODES MEDIODORSAL THALAMUS AND VENTRAL PALLIDUM CONTRIBUTE TO THE DEFAULT MODE NETWORK REGULATION
Speaker: Yilei Zhao (Switzerland)

PS06-28PM-506  CORTICAL LAYER 6 MEDIATES INTRA- AND INTER-HEMISPHERIC CONNECTIVITY AND ITS HIERARCHICAL ORGANISATION
Speaker: Simon Weiler (United Kingdom)

PS06-28PM-507  THE IMPACT OF THE RETINOTOPIC SUBDIVISIONS OF AREA V1 ON SHAPING THE MACAQUE CONNECTOME
Speaker: Yujie Hou (France)

PS06-28PM-508  ANATOMICAL ORGANIZATION OF GENETICALLY-DEFINED PREFRONTAL PROJECTIONS TO SENSORY CORTICES
Speaker: Felix Jung (Sweden)

PS06-28PM-509  IMBALANCED INHIBITION IN PREFRONTAL CORTICO-THALAMIC CIRCUITS VIA THALAMIC RETICULAR NUCLEUS
Speaker: Ece Sakalar (United States)

PS06-28PM-510  LAYER-SPECIFIC MICROCIRCUIT SYNAPTIC ULTRASTRUCTURE COMPARISON OF SENSORY FIRST AND HIGHER ORDER THALAMOCORTICAL PROJECTIONS INTO SOMATOSENSORY CORTICES
Speaker: Pablo J. Martin-Correa (Spain)

PS06-28PM-511  BRAINSTEM PROJECTIONS IN THE VESTIBULO-THALAMIC PATHWAYS OF THE ADULT MICE
Speaker: Louise Schenberg (France)

PS06-28PM-512  SPECIALIZED CORTICOTHALAMIC CONNECTIONS BETWEEN THE LAYER 5 OF THE FRONTAL CORTEX AND THE THALAMUS.
Speaker: Hajnalka Bokor (Hungary)

PS06-28PM-513  ORGANIZATION OF EXCITATORY AFFECTENTS IN THE ANTERIOR PART OF THE HUMAN THALAMUS
Speaker: László Acsády (Hungary)

PS06-28PM-514  SUBCORTICAL AND CORTICAL INPUTS TO ANTERIOR INSULA AND CLAUSTRUM IN MACAQUE AND MOUSE SUGGEST POSSIBLE SPECIES-SPECIFIC IMPLICATIONS FOR THE ROLE OF INTEROCEPTIVE INFERENCE IN CONSCIOUSNESS
Speaker: Zhaoke Luo (France)

PS06-28PM-515  THE OLIVO-THALAMIC PROJECTIONS: DOES THE AUDITORY THALAMUS HAVE A NEED FOR SPEED?
Speaker: Héctor Rincón (Spain)

Poster Sessions
14:00 - 17:30

Poster Session 06 - Section 137

PS06-28PM-041  DIFFERENTIAL EFFECTS OF PSYCHEDELICS AND CLASSICAL ANTIDEPRESSANTS ON TRKB DIMERIZATION AND NEUROTROPHIC SIGNALLING
Speaker: Paula Pastor Muñoz (Finland)

PS06-28PM-042  INTERACTION OF BDNF AND GLUCOCORTICOID SIGNALING IN SHAPING NEURONAL PLASTICITY
Speaker: Cecilia Anna Brunello (Finland)
PS06-28PM-043 MODULATION OF THE DEFAULT MODE NETWORK HUB IN THE MOUSE BRAIN BY LYSERGIC ACID DIETHYLAMIDE: INSIGHTS FROM FUNCTIONAL IMAGING. 

Speaker: Anaïs Virenque (Finland)

PS06-28PM-044 NEURAL PLASTICITY IN SOMATOSTATIN-EXPRESSING INTERNEURONS TO SUPPRESS COCAINE-SEEKING BEHAVIOUR 

Speaker: Giuliano Didio (Finland)

PS06-28PM-045 EFFECT OF ENVIRONMENTAL ENRICHMENT ON NEUROPLASTICITY 

Speaker: Katja Kaurinkoski (Finland)

PS06-28PM-046 SELECTIVE EFFECTS OF PSILOCIN ON CORTICO-AMYGDALAR NEURONS MEDIATED BY 5HT2A AND 5HT1A RECEPTORS 

Speaker: Matthew Claydon (United Kingdom)

PS06-28PM-047 EXTRACELLULAR MATRIX AND SHARP WAVE RIPPLE COMPLEX CHANGES FOLLOWING TREATMENT WITH ZURANOLONE 

Speaker: Samantha Deasy (United States)

PS06-28PM-048 SYNAPTIC PHOSPHOPROTEOME SIGNATURE EVOCKED BY HALLUCINOGENIC AGONIST STIMULATION OF THE 5-HT2A RECEPTOR 

Speaker: Tomas del Olmo (France)

PS06-28PM-049 SALT-INDUCED KINASE 3 IS ACTIVATED UPON MGLU2 RECEPTOR STIMULATION AND EXERTS A NEGATIVE FEEDBACK ON THE RECEPTOR CANONICAL SIGNALING. 

Speaker: Candice Disdier (France)

PS06-28PM-050 TRKB RECEPTOR INTERACTS WITH MGLU2 RECEPTOR AND MEDIATES ANTIPSYCHOTIC-LIKE EFFECTS OF MGLU2 RECEPTOR ACTIVATION IN THE MOUSE 

Speaker: Franck Vandermoere (France)

PS06-28PM-051 ANTIDEPRESSANT-LIKE EFFECTS OF PSYCHEDELICS IN A CHRONIC DESPAIR MOUSE MODEL: IS THE 5-HT2A RECEPTOR THE UNIQUE PLAYER? 

Speaker: Mehdi Sekssaoui (France)

PS06-28PM-052 NEURODEVELOPMENTAL ROLES OF THE SEROTONIN 5-HT6 RECEPTOR IN A CORTICOGENESIS MODEL FROM MOUSE EMBRYONIC STEM CELLS. 

Speaker: Clémence Quittet (France)

PS06-28PM-053 ACUTE BEHAVIORAL AND NEURONAL EFFECTS FROM PSILOCYBIN AND KETAMINE IN MICE 

Speaker: Francesca Sellitti (Switzerland)

PS06-28PM-054 ASSOCIATION OF HALLUCINOGEN PERSISTING PERCEPTION DISORDER WITH TRAIT NEUROTICISM AND MENTAL HEALTH SYMPTOMS 

Speaker: Alicia Halliday (United Kingdom)

PS06-28PM-055 EXPLORING THE EFFECTS OF PSILOCYBIN AND KETAMINE (NOVEL ANTIDEPRESSANTS) ON THE ELECTROENCEPHALOGRAM (EEG) OF C57BL/6 MICE: A COMPARATIVE ANALYSIS 

Speaker: Katarzyna Marszalek (Poland)

PS06-28PM-056 TRANSCRIPTOMIC ANALYSIS OF THE EFFECTS OF A SINGLE DOSE OF IBOGAINE: UNCOVERING POTENTIAL THERAPEUTIC PATHWAYS IN MICE 

Speaker: Judit Biosca-Brull (Spain)
AYAHUASCA PREVENTS THE EXPRESSION OF COCAINE-INDUCED CONDITIONED PLACE PREFERENCE IN C57BL/6 MICE

Speaker: Tania Marcourakis (Brazil)

CORTICAL TRANSCRIPTOMIC EFFECTS OF THE NON-HALLUCINOGENIC 2-BROMO LSD.

Speaker: Vern Lewis (Canada)

CHARACTERIZATION OF MDMA ANALOGUE 1,3-BENZODIOXOYLIBUTANAMINE (BDB) AND ITS STRUCTURAL ANALOGUES.

Speaker: Nina Kastner (Austria)

N,N-DIMETHYLTRYPTAMINE HAS A PROTECTIVE EFFECT AGAINST OXYGEN-GLUCOSE DEPRIVATION IN A RAT PRIMARY CULTURE MODEL OF THE BLOOD-BRAIN BARRIER

Speaker: Judit Vigh (Hungary)

EFFECTS OF 5-HT2AR-MGLUR2-BASED INTERVENTIONS ON ELECTROPHYSIOLOGICAL BIOMARKERS IN A RAT MODEL OF ALCOHOL ADDICTION

Speaker: Bettina Habelt (Germany)

S41 - Representational drift, learning and forgetting

Chair: Jens-Bastian Eppler (Goethe University Frankfurt, Department of Computer Science, Frankfurt Institute for Advanced Studies, Germany)

Chair: Simon Rumpel (Johannes Gutenberg University Mainz, Institute of Physiology, Systemic Neuroscience Group, Germany)

Introduction 15:45 - 15:47

Hippocampal neurogenesis, representational drift and forgetting 15:47 - 16:05

Speaker: Paul Frankland (Hospital for Sick Children (Toronto), Canada)

Q&A 16:05 - 16:09

Representational drift of hippocampal spatial code and memory retention 16:09 - 16:27

Speaker: Jill K. Leutgeb (University of California, San Diego, United States)

Q&A 16:27 - 16:31

Representational drift as the consequence of ongoing memory storage 16:31 - 16:49

Speaker: Alex Roxin (Centre de Recerca Matemàtica, Spain)

Q&A 16:49 - 16:53

Long-term memory is maintained despite ongoing changes in hippocampal and cortical representations 16:53 - 17:11

Speaker: Yaniv Ziv (Weizmann Institute of Science, Israel)

Q&A 17:11 - 17:15

S42 - Neural Basis of Flexible Innate Behaviors

Chair: Maximilian Jösch (ISTA, Austria)

Chair: Karl Farrow (VIB - NERF, Belgium)

Introduction 15:45 - 15:47
Is love blind? Mating probability gates threat perception 15:47 - 16:05
Speaker: Carolina Rezaval (University of Birmingham, United Kingdom)
Q&A 16:05 - 16:09

Hormonal remodeling of parental behavior and neural circuits 16:09 - 16:27
Speaker: Jonny Kohl (The Francis Crick Institute, United Kingdom)
Q&A 16:27 - 16:31

Midbrain circuits for flexible instinctive behaviours 16:31 - 16:49
Speaker: Vanessa Stempel (Max Planck Institute for Brain Research, Germany)
Q&A 16:49 - 16:53

Evolution of neural circuits mediating defensive behaviors 16:53 - 17:11
Speaker: Karl Farrow (VIB - NERF, Belgium)
Q&A 17:11 - 17:15

Scientific Symposia (S) 15:45 - 17:15

S43 - Novel mechanisms in Alzheimer’s disease and cognitive decline 15:45 - 17:15
Chair: Paul Lucassen (University of Amsterdam, Netherlands)
Chair: Evgenia Salta (Netherlands Institute for Neuroscience, Netherlands)
Introduction 15:45 - 15:47
Single-cell molecular mapping of human adult hippocampal neurogenesis in Alzheimer’s disease 15:47 - 16:05
Speaker: Evgenia Salta (Netherlands Institute for Neuroscience, Netherlands)
Q&A 16:05 - 16:09
Hippocampal progenitor cells as biomarkers of cognitive ageing & dementia 16:09 - 16:27
Speaker: Thuret Sandrine (King’s College London, United Kingdom)
Q&A 16:27 - 16:31
Hippocampal neurogenesis impairment and memory formation in Alzheimer’s disease 16:31 - 16:49
Speaker: Orly Lazarov (University of Illinois, United States)
Q&A 16:49 - 16:53
Harnessing adult neurogenesis rescues cognitive dysfunction in Alzheimer’s disease 16:53 - 17:11
Speaker: Se Hoon Choi (Harvard Medical School and Massachusetts General Hospital, United States)
Q&A 17:11 - 17:15

S44 - Diverse Functions of the Hippocampus: Circuit Elements and Computations along the Dorsoventral Axis 15:45 - 17:15
Chair: Sanja Mikulovic (Leibniz Institute for Neurobiology, Germany)
Introduction 15:45 - 15:47
Neurocomputational mechanisms of prosocial learning in the dorsal and ventral hippocampus 15:47 - 16:05
Speaker: Sanja Mikulovic (Leibniz Institute for Neurobiology, Germany)
Q&A 16:05 - 16:09

Neural dynamics underlying associative learning and outcome expectation in the ventral hippocampus 16:09 - 16:27

*Speaker:* Mazen Kheirbek (University of California San Francisco, United States)

Q&A 16:27 - 16:31

Neuronal circuits of anxiety in the ventral hippocampus 16:31 - 16:49

*Speaker:* Stéphane Ciocchi (Systems Neuroscience, Department of Physiology, University of Bern, Switzerland)

Q&A 16:49 - 16:53

Ventral hippocampus supports hidden state inference to guide flexible behavior 16:53 - 17:11

*Speaker:* Andrew MacAskill (University College London, United Kingdom)

Q&A 17:11 - 17:15

**Scientific Symposia (S)**

15:45 - 17:15

**S45 - Maternal immune activation and neurodevelopmental disorders: from molecular insights to new models**

*Chair:* Davide Pozzi (Humanitas University, Italy)

**Introduction** 15:45 - 15:47

Risk and resilience to the neurodevelopmental effects of maternal immune activation in mouse models 15:47 - 16:05

*Speaker:* Urs Meyer (Institute of Pharmacology and Toxicology - Vetsuisse, University of Zurich; Neuroscience Center Zurich, University of Zurich and ETH Zurich, Switzerland)

Q&A 16:05 - 16:09

Prenatal IL6 elevation affects the GABA developmental switch in the offspring 16:09 - 16:27

*Speaker:* Davide Pozzi (Humanitas University, Italy)

Q&A 16:27 - 16:31

Prenatal immune stress diminished microglia reactivity leading to impaired striatal connectivity 16:31 - 16:49

*Speaker:* Lindsay Hayes (University of Oklahoma Health Science Center, United States)

Q&A 16:49 - 16:53

Human brain organoids as models to study the effect of maternal immune activation 16:53 - 17:11

*Speaker:* Kseniia Sarieva (Hertie Institute for Clinical Brain Research, University of Tuebingen, Germany)

Q&A 17:11 - 17:15

**Scientific Symposia (S)**

15:45 - 17:15

**S46 - The hunger game: Melanocortin regulation of motivational drives in mice and humans**

*Chair:* Sophie Steculorum (Max Planck Institute for Metabolism Research, Group of Neurocircuit Wiring and Function, Germany)

*Chair:* Henning Fenselau (Max Planck Institute for Metabolism Research, Synaptic Transmission and Energy Homeostasis Group, Germany)

**Introduction** 15:45 - 15:47

Insight into melanocortin biology from human genetics 15:47 - 16:05
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**Speaker**: Stephen O’Rahilly (University of Cambridge, United Kingdom)

**Q&A** 16:05 - 16:09

**The neural basis for hunger**

**Speaker**: J. Nicholas Betley (University of Pennsylvania, Department of Biology, United States)

**Q&A** 16:09 - 16:27

**Dysfunction of gut-brain dynamics underlying hunger**

**Speaker**: Lisa Beutler (Northwestern University Feinberg School of Medicine, United States)

**Q&A** 16:27 - 16:49

**Aberrant expression of a melanocortin receptor antagonist as a novel trait of human obesity**

**Speaker**: Kathrin Landgraf (Center for Pediatric Research Leipzig (CPL), Hospital for Children & Adolescents, University of Leipzig, Leipzig, Germany, Germany)

**Q&A** 16:49 - 17:11

**Scientific Symposia (S)**
15:45 - 17:15

**S47** - **Connecting the dots: mining brain data and organization across multiple scales**

**Chair**: Wulf Haubensak (Medizinische Universität Wien, Austria)

**Introduction** 15:45 - 15:47

**BrainTACO: An Explorable Multi-Scale Multi-Modal Brain Transcriptomic And Connectivity Data Resource** 15:47 - 16:05

**Speaker**: Katja Bühler (VRVis Zentrum für Virtual Reality und Visualisierung Forschungs-GmbH, Austria)

**Q&A** 16:05 - 16:09

**From Genes to Function: Linking gene expression patterns, brain function and behaviour** 16:09 - 16:27

**Speaker**: Isabel Wank (Friedrich-Alexander-Universität Erlangen Nürnberg, Germany)

**Q&A** 16:27 - 16:31

**Machine learning for multiparametric human MRI: brain function, immunological diseases and treatment** 16:31 - 16:49

**Speaker**: Andreas Hess (FAU-Erlangen Nürnberg, Germany)

**Q&A** 16:49 - 16:53

**Computational archeology of the human mind** 16:53 - 17:11

**Speaker**: Wulf Haubensak (Medizinische Universität Wien, Austria)

**Q&A** 17:11 - 17:15

**Scientific Symposia (S)**
15:45 - 17:15

**S48** - **Brain plasticity during sleep between homeostasis and memory consolidation**

**Chair**: Niels Niethard (University of Tuebingen, Institute of Medical Psychology and Behavioral Neurobiology, Jan Born’s lab, Germany)

**Chair**: Gabrielle Girardeau (Institut du Fer à Moulin, Inserm U1270, Sorbonne Université, Girardeau Lab, France)

**Introduction** 15:45 - 15:47

**Neural dynamics in the amygdala underlying consolidation and homeostasis during sleep** 15:47 - 16:05

**Speaker**: Gabrielle Girardeau (Institut du Fer à Moulin, Inserm U1270, Sorbonne Université, Girardeau Lab, France)
Scientific programme

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Q&A
16:05 - 16:09

Synaptic plasticity in the neocortex associated with REM sleep
16:09 - 16:27
Speaker: Antoine Adamantidis (Zentrum für Experimentelle Neurologie (ZEN), Dept of Neurologie, University Hospital Bern, Switzerland)

Q&A
16:27 - 16:31

Gating of upward and downward homeostatic plasticity by wake and sleep states
16:31 - 16:49
Speaker: Gina Turrigiano (Brandeis University, United States)

Q&A
16:49 - 16:53

Restoring access to memories thought-to-be lost in the sleep-deprived brain.
16:53 - 17:11
Speaker: Robbert Havekes (Neurobiology expertise group, Faculty of Science and Engineering, University of Groningen, Netherlands)

Q&A
17:11 - 17:15

Award Ceremony (AC)
17:15 - 17:30

AC03 - FKNE Mentoring Prize and FKNE PhD Thesis Prize Ceremony

Plenary Lecture (PL)
17:30 - 18:30

PL07 - ERA-NET NEURON Plenary Lecture, Asya Rolls (IS)

Introduction
17:30 - 17:30

Bridging Mind and Body through Neuroimmunology
17:30 - 17:30
Speaker: Asya Rolls (Technion, Israel Institute of Technology, Israel)

Sponsored Sessions (SS)
18:45 - 20:15

SS09 - Sponsored Session 09

Networking Events (NE)
18:45 - 20:15

NE16 - General Assembly of the Austrian Neuroscience Association
Event Description
18:45 - 18:45

Networking Events (NE)
18:45 - 20:15

NE17 - Sociedade Portuguesa de Neurociências (SPN) General Assembly 2024
Event Description
18:45 - 18:45

Networking Events (NE)
18:45 - 20:15

NE18 - UK Glia Network Social
Event Description
18:45 - 18:45

Speakers
18:45 - 18:45

Speaker: Valentina Mosienko (United Kingdom)
Speaker: Blanca Díaz Castro (United Kingdom)
**Networking Events (NE)**
18:45 - 20:15

**NE19 - ALBA-WWN-IBRO ECC Workshop on overcoming impostor phenomenon**

*Chair:* Martha I. Dávila-García (United States)
*Chair:* Emma Yhnell (United Kingdom)

**Event Description**

**Speakers**

* Speaker: Martha I. Dávila-García (United States)  
* Speaker: Emma Yhnell (United Kingdom)  
* Speaker: Shubha Tole (India)  
* Speaker: Stamatina Tzanoulinou (Switzerland)  
* Speaker: Pamela Butler (United States)  
* Speaker: Anastasia Diamantopoulou (Germany)  
* Speaker: Emmeline Edwards (United States)  
* Speaker: Jacque Ip (Hong Kong)  
* Speaker: Oritoke Okeowo (Nigeria)  
* Speaker: Srikanth Ramaswamy (Newcastle University, United Kingdom)
Saturday, 29 June 2024

Plenary Lecture (PL)
08:30 - 09:30

PL08 - Plenary Lecture, Gloria Choi (US)

Introduction
08:30 - 08:30

Neuroimmune Interactions shaping social Behavior
08:30 - 08:30

Speaker: Gloria Choi (Massachusetts Institute of Technology, United States)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 145

PS07-29AM-427 - A SET OF RHYTHMIC FEATURES DETERMINES THE NEURONAL REPRESENTATION AND PERCEPTION OF PULSED AUDITORY STIMULI

Speaker: Johannes P.-H. Seiler (Germany)

PS07-29AM-428 - HOMEOSTASIS OF A REPRESENTATIONAL MAP IN THE MOUSE AUDITORY CORTEX

Speaker: Simon Rumpel (Johannes Gutenberg University Mainz, Institute of Physiology, Systemic Neuroscience Group, Germany)

PS07-29AM-429 - FORGETTING SLOWS DOWN REVERSAL LEARNING IN BEHAVING MICE AND ARTIFICIAL NEURONAL NETWORKS

Speaker: Jonas Elpelt (Germany)

PS07-29AM-430 - NEURAL DYNAMICS AND REPRESENTATIONAL DRIFT OF INHIBITORY NEURONS IN MOUSE AUDITORY CORTEX

Speaker: Thomas Lai (Germany)

PS07-29AM-431 - IMAGING COLLECTIVE SYNAPTIC DYNAMICS IN THE MOUSE AUDITORY CORTEX DURING LEARNING

Speaker: Altug Kamacioglu (Germany)

PS07-29AM-432 - DECIPHERING INTERNAL PROCESSING STATES IN THE AUDITORY CORTEX THROUGH DYNAMIC INTERPLAY OF EVOKED AND SPONTANEOUS POPULATION ACTIVITY

Speaker: Andrey Sobolev (Germany)

PS07-29AM-433 - REMARKABLY PRECISE SOUND DURATION DISCRIMINATION IN RODENTS: BEHAVIORAL AND NEURONAL INSIGHTS FROM A NATURALISTIC PARADIGM

Speaker: Miguel Bengala (Germany)

PS07-29AM-434 - RESPIRATORY ENTRAINMENT TO AUDITORY HIERARCHY

Speaker: Alessandro Tavano (Germany)

PS07-29AM-435 - RAPID AUDITORY LOOMS ELICIT THREAT-RELATED CORTICOCORTICAL CONNECTIVITY

Speaker: Karolina Ignatiadis (Austria)

PS07-29AM-436 - THE ROLE OF SUBCORTICAL-CORTICAL INTERACTIONS IN LEARNING SOUND STATISTICS

Speaker: Irene Onorato (Germany)

PS07-29AM-437 - AMBIENT SOUND STIMULATION REGULATES RADIAL GROWTH OF MYELIN AND TUNES AXONAL CONDUCTION VELOCITY IN THE AUDITORY PATHWAY

Speaker: Mihai Stancu (Germany)
WHAT HAPPENS TO THE NEURAL CODE OF CONSONANTS WHEN PRESENTED IN BACKGROUND NOISE

Speaker: Amarins Heeringa (Germany)

HOW THE AUDITORY BRAINSTEM OF BATS DETECTS REGULARITY DEVIATIONS IN A NATURALISTIC STIMULATION PARADIGM

Speaker: Johannes Wetekam (Germany)

FUNCTIONAL SPECIFICITY OF AUDITORY INPUTS TO THE VISUAL CORTEX

Speaker: Alexander Egea Weiss (United Kingdom)

REPRESENTATION OF SOUNDS IN THE CORTEX OF NAKED MOLE-RATS

Speaker: Luciana Lopez-Jury (Germany)

CONSERVATION OF SENSORY CODING IN THE AUDITORY CORTEX OF MICE BETWEEN WAKEFULNESS AND SLEEP

Speaker: Allan Muller (France)

SPATIAL CODING PLASTICITY IN THE AUDITORY CORTEX DURING SOUND LOCALIZATION BEHAVIOR

Speaker: Valerija Kello (Germany)

DECIPHERING THE MECHANISMS UNDERLYING AUDITORY HYPEREXCITABILITY IN A GENETIC MOUSE MODEL SUSCEPTIBLE TO AUDIOGENIC SEIZURES.

Speaker: Sabrina Mechaussier (France)

FMRI MAPPING OF BRAIN CIRCUITS DURING SIMPLE SOUND PERCEPTION BY AWAKE RATS

Speaker: Gabriele Russo (Germany)

MASSIVE IMPACT OF ANESTHESIA ON SOUND REPRESENTATIONS IN THE AUDITORY BRAINSTEM

Speaker: Etienne Gosselin (France)

CAN INFERIOR COLLICULUS NEURONS CAN PREDICT BEHAVIORAL AUDITORY DISCRIMINATION IN NOISE?

Speaker: Alexandra Martin (France)

ACTIVITY PATTERNS OF CORTICOCOLLICULAR NEURONS DURING AUDITORY LEARNING

Speaker: Kira Andrea (Germany)

THE RELATIONSHIP BETWEEN CORTICAL SOMATOSENSORY-AUDITORY SUPPRESSION AND BEHAVIOUR

Speaker: Paul Zimmer-Harwood (United Kingdom)

IMPLICATIONS OF SYNAPTIC NOISE ON RATE CODING AND TEMPORAL CODING IN THE LATER SUPERIOR OLIVE: A DYNAMIC-CLAMP STUDY

Speaker: Jonas Fisch (Germany)

RARE TONE SUPPRESSION IN INFERIOR COLLICULUS THAT DEPENDS ON THE RELATIVE PREDICTABILITY OF SOUNDS

Speaker: Zhengjie Yang (Germany)

MULTIMODAL ACTIVITY OF MOUSE AUDITORY CORTEX DURING AUDIO-VISUAL-MOTOR VIRTUAL REALITY

Speaker: Alessandro La Chioma (United States)

DEVELOPMENTAL FINE-TUNING OF MEDIAL SUPERIOR OLIVE NEURONS MITIGATES THEIR PREDISPOSITION TO CONTRALATERAL SOUND SOURCES.
Speaker: Gerard Borst (Netherlands)

PS07-29AM-454 - A COMPUTATIONAL MODEL OF THE MAMMALIAN BRAINSTEM TO SOLVE SOUND LOCALIZATION

Speaker: Francesco de Santis (Italy)

PS07-29AM-455 - SOUND POWER MODULATES RAT VISUAL PERCEPTION IN A TEMPORAL FREQUENCY CLASSIFICATION TASK

Speaker: Mattia Zanzi (Italy)

PS07-29AM-456 - STATISTICAL LEARNING IN AUDITORY CORTEX AND HIPPOCAMPUS

Speaker: Xing Xiao (Germany)

PS07-29AM-457 - IMPACT OF BACKGROUND NOISE ON VISUAL SEARCH PERFORMANCE

Speaker: Kyriakos Nikolaidis (Austria)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 139

PS07-29AM-301 - ENDOPLASMIC RETICULUM QUALITY CONTROL MACHINERY VALIDATES STRUCTURAL CHANGES, NOT FUNCTIONALITY, OF NMDA RECEPTORS

Speaker: Marek Ladislav (Czech Republic)

PS07-29AM-302 - THE ROLE OF DISULFIDE BONDS IN GLUN1 IN THE REGULATION OF THE EARLY TRAFFICKING AND FUNCTIONAL PROPERTIES OF GLUN1/GLUN2 SUBTYPES OF NMDA RECEPTORS

Speaker: Jakub Netolicky (Czech Republic)

PS07-29AM-303 - THE ROLE OF DISULFIDE BONDS IN GLUN1 IN THE REGULATION OF THE EARLY TRAFFICKING AND FUNCTIONAL PROPERTIES OF GLUN1/GLUN3A SUBTYPES OF NMDA RECEPTORS

Speaker: Petra Zahumenská (Czech Republic)

PS07-29AM-304 - THE EFFECTS OF DISEASE-ASSOCIATED MUTATIONS ON THE CONFORMATIONAL DYNAMICS OF NMDA RECEPTORS

Speaker: Mark Dobrovolskii (Czech Republic)

PS07-29AM-305 - INSIGHTS INTO THE PHARMACOLOGY OF GLUN3A RECEPTORS: EXPLORING THE MECHANISM OF ACTION OF SELECTIVE INHIBITORS AND THEIR ACTIVITY AT NATIVE RECEPTORS

Speaker: Anne-Kathrin Ludwig (Germany)

PS07-29AM-306 - ESCRT PROTEINS AS TARGETS FOR NOVEL ANTIPSYCHOTIC DRUGS

Speaker: Mohamed Shalaby (United Kingdom)

PS07-29AM-307 - FUNCTIONAL INTERNALLY TAGGED VPS10P-DOMAIN RECEPTORS: A NOVEL TOOL TO INVESTIGATE THEIR ENDOosomal ITINERARIES, DIMERIZATION AND LIGAND INTERACTIONS THAT REVEALS THEIR POTENTIAL ROLE IN BDNF TRANSPORT

Speaker: Marcel Klein (Germany)

PS07-29AM-308 - SCREENING FOR NOVEL MODULATORS OF HP2X2 AND HP2X4 RECEPTORS USING AN IN SILICO APPROACH

Speaker: Pamela Godoy (Chile)

PS07-29AM-309 - A PHARMACOLOGICAL SIGNATURE TO SELECTIVELY IDENTIFY MGLU7 CONTAINING HETERODIMERS

Speaker: Laurent Prézeau (France)
PS07-29AM-310  NANOBODY-BASED FRET BIOSENSORS TO QUANTIFY ENDogenous GROUP I METABOTROPIC GLUTAMATE RECEPTORS

*Speaker*: Ugo Alenda (France)

PS07-29AM-311  THE ROLE OF THE GDG MOTIF OF THE GLUN2 SUBUNIT FOR MECHANISM OF NMDAR ACTIVATION

*Speaker*: Eni Tomovic (Czech Republic)

PS07-29AM-312  AN EX-VIVO BRAIN SLICE MODEL TO ASSESS THE IMPACT OF ELEVATED EXTRACELLULAR GLUTAMATE AND EAAT BLOCKADE ON SYNAPTIC AND EXTRASYNAPTIC NMDA RECEPTOR FUNCTION.

*Speaker*: C. Peter Bengtson (Germany)

**Poster Sessions**

09:30 - 13:00

**Poster Session 07 - Section 102**

PS07-29AM-558  RAB5-ASSOCIATED TRANSCRIPTOME REVEALS A NEW LINK BETWEEN ENDOSONES AND AUTOPHAGY IN AXONS

*Speaker*: Francesca Pappacena (Italy)

PS07-29AM-559  DYNAMIC ENDOSONE-MRMA ASSOCIATION DRIVES COMPARTMENT-SPECIFIC MRMA LOCALIZATION IN NEURONS.

*Speaker*: Ainhoa Viana Alzola (Italy)

PS07-29AM-560  LYSOSOMAL CONTROL OF AXONAL PROTEIN SYNTHESIS IN CHARCOT-MARIE-TOOTH DISEASE TYPE 2B

*Speaker*: Kalina Wiatr (Italy)

PS07-29AM-561  A RIBO-TAG BASED SCREEN IDENTIFIES NOVEL TRANSLATIONAL REGULATION-DEPENDENT MECHANISMS INVOLVED IN AXON GUIDANCE

*Speaker*: Veronica Murcia-Belmonte (Spain)

PS07-29AM-562  DISSECTING THE FUNCTION OF THE CISTERNAL ORGANELLE IN THE AXON INITIAL SEGMENT

*Speaker*: Lia Carvalhais (Netherlands)

PS07-29AM-563  REGULATION OF THE AXONAL TRANSLATOME IN DOPAMINERGIC CIRCUITS DURING DEVELOPMENT

*Speaker*: Charles Gora (Canada)

PS07-29AM-564  RNA SPlicing REVISED: NEW MOLECULAR TOOLS FOR ANALYSIS OF CRYPTIC SPLICE DONORS AT SINGLE CELL RESOLUTION

*Speaker*: Magnus Harnau (Germany)

PS07-29AM-565  AXONAL TRANSPORT: A NEW ROLE FOR LOCAL TRANSLATION?

*Speaker*: FANG SHIN NIAN (Belgium)

PS07-29AM-566  A MASSIVELY PARALLEL REPORTER ASSAY FOR TRANSLATIONAL CONTROL MAPS THE REGULATORY LANDSCAPE OF NEURONAL 3'UTRS

*Speaker*: Orit David (Israel)

PS07-29AM-567  LONG POLYA TAILS OF NEUROPEPTIDE MRNAS ORIGINATE IN THE CYTOPLASM OF NEUROSECRETORY CELLS

*Speaker*: Bartosz Tarkowski (Poland)
### Poster Session 07 - Section 121

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Speaker: Jorge Navarro Calvo (Spain)

PS07-29AM-253 NEUROINFLAMMATORY PATHWAYS IN THE HUMAN MIDCINGULATE CORTEX IN HUNTINGTON’S DISEASE.

Speaker: Mackenzie Ferguson (New Zealand)

PS07-29AM-254 SUPERIOR COLLICULUS AS A KEY PLAYER IN HUNTINGTON’S DISEASE SENSORIMOTOR COORDINATION DEFICITS: FROM CIRCUITS TO BEHAVIOUR

Speaker: Melike Küçükerden (Spain)

PS07-29AM-255 K-CL COTRANSPORTER KCC2 FUNCTION IS IMPAIRED IN D2 RECEPTOR-EXPRESSING MEDIUM SPINY NEURONS IN A MOUSE MODEL OF HUNTINGTON’S DISEASE

Speaker: Melissa Serranilla (Canada)

PS07-29AM-256 MUTANT HUNTINGTIN DISRUPTS GLOBAL DNA METHYLATION IN HUMAN IPSC-DERIVED CEREBRAL ORGANOIDS

Speaker: Elad Dvir (Israel)

PS07-29AM-257 EVOLUTION OF THE PSYCHIATRIC PHENOTYPE IN THE EARLY STAGES OF A HUNTINGTON’S DISEASE PRECLINICAL MODEL

Speaker: Baptiste Dayre (France)

PS07-29AM-258 TAF1 SPlicing VARIANTS AND PROLYL HYDROXYLASE INHIBITORS THERAPY IN A MOUSE MODEL OF HUNTINGTON’S DISEASE

Speaker: Claudia Rodríguez-López (Spain)

PS07-29AM-259 ELUCIDATING THE MECHANISMS OF ALTERED CORTICAL SENSORY PROCESSING IN A MOUSE MODEL OF HUNTINGTON DISEASE

Speaker: Daniel Ramandi (Canada)

PS07-29AM-260 MENINGEAL IMMUNE CELL ALTERATIONS IN HUNTINGTON’S DISEASE

Speaker: Alina Blusch (Sweden)

PS07-29AM-261 SIGMA 2 RECEPTOR/TMEM97 AS A POTENTIAL THERAPEUTIC TARGET FOR NEURODEGENERATIVE DISORDERS

Speaker: JING JIN (United States)

PS07-29AM-262 TARGETING THE AMPK PATHWAY AS A TREATMENT STRATEGY FOR HUNTINGTON’S DISEASE

Speaker: Balázs Kis (Hungary)

PS07-29AM-263 FUNCTIONAL IMPAIRMENTS OF STRIATAL NEURONS IN HUNTINGTON’S DISEASE: FAST-SPIKING INTERNEURONS AND THEIR KEY ROLE DURING THE EARLY STAGES OF THE PATHOLOGY

Speaker: Arianna Trucco (Italy)

Poster Session 07 - Section 134

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 134

PS07-29AM-073 THE LINK BETWEEN SOCIAL RANK AND BEHAVIORS IN FEMALE MICE GROUPS

Speaker: Estelle CONABADY (France)

PS07-29AM-074 STATISTICS VERSUS ANIMAL WELFARE: VALIDATION OF THE EXPERIMENTAL UNIT IN THE FOCUS OF 3R

Speaker: Miriam Vogt (Germany)

PS07-29AM-075 REWARD CIRCUITRY UNDERPINNINGS FOR SOCIAL BUFFERING
OF STRESS.

Speaker: Urszula Skupio (United States)

PS07-29AM-076 - A QUANTITATIVE AND QUALITATIVE ANALYSIS OF SOCIAL WITHDRAWAL IN THE SUB-CHRONIC PCP RAT MODEL FOR SCHIZOPHRENIA

Speaker: Alexandre Seillier (Czech Republic)

PS07-29AM-077 - MOUSE CAN RECOGNIZE OTHER INDIVIDUALS: MATERNAL EXPOSURE TO DIOXIN DOES NOT AFFECT IDENTIFICATION BUT PERTURBS THE RECOGNITION ABILITY OF OTHER INDIVIDUALS

Speaker: Hana Ichihara (Japan)

PS07-29AM-078 - BEHAVIORAL ANALYSIS OF GROWTH-RETARDED MICE WITH CONGENITAL HYPOTHYROIDISM USING INTELLIGACE

Speaker: Fumihiko Maekawa (Japan)

PS07-29AM-079 - SUBTHALAMIC NUCLEUS OPTOGENETIC INHIBITION REDUCES MOTIVATION FOR SOCIAL INTERACTIONS

Speaker: Lucie Vignal (France)

PS07-29AM-080 - IMPACT OF SOCIAL ISOLATION ON COGNITIVE AND MOTOR FUNCTIONS IN AGING MALE MICE

Speaker: Christiane Frahm (Germany)

PS07-29AM-081 - BEHAVIORAL IMPACTS OF SIMULATED MICROGRAVITY ON MALE MICE: LOCOMOTION, SOCIAL INTERACTIONS AND MEMORY IN A NOVEL OBJECT RECOGNITION TASK.

Speaker: Jean-Luc Morel (France)

PS07-29AM-082 - EFFECTS OF 5G RADIOFREQUENCIES (26 GHZ) IN HEALTHY AND DEPRESSIVE SUBJECTS: A BEHAVIORAL APPROACH OF ELECTROMAGNETIC HYPERSENSITIVITY (EHS) IN MALE AND FEMALE RATS.

Speaker: Adrien Vérité (France)

PS07-29AM-083 - THE IMPACT OF CA2 E/I IMBALANCE ON SOCIAL BEHAVIOUR AND NETWORK ACTIVITY

Speaker: Alessa A. Franz (Germany)

PS07-29AM-084 - THE IMPORTANCE OF HOUSING CONDITIONS IN IMPLEMENTING THE SEX AS A BIOLOGICAL VARIABLE (SABV) POLICY IN NEUROSCIENCE RODENT RESEARCH

Speaker: Ivana Jaric (Switzerland)

PS07-29AM-085 - SOCIAL ISOLATION DURING ADOLESCENCE CAUSES INCREASED GENERALISED ANXIETY-LIKE BEHAVIOUR IN MALE RATS AND REDUCED SOCIAL ANXIETY-LIKE BEHAVIOUR IN MALE AND FEMALE RATS

Speaker: Marina Manojlović (Serbia)

PS07-29AM-086 - PROTEIN RESTRICTION AFFECTS FOOD PREFERENCE DIFFERENTLY IN MALE AND FEMALE MICE

Speaker: Hamid Taghipourbibalan (Norway)

PS07-29AM-087 - THE EFFECTS OF EMPATHY ON PASSIVE AVOIDANCE TEST IN RATS

Speaker: Zeynep Serra Özler (Turkey)

PS07-29AM-088 - ALTERED ACTIVITIES OF ANTIOXIDANT ENZYMES IN PERIPHERAL ORGANS AND ERYTHROCYTES DUE TO SOCIAL ISOLATION IN PERIPUBERTY: FINDINGS FROM A RODENT STUDY

Speaker: Milica Potrebić (Serbia)

PS07-29AM-089 - HOUSING SETTINGS AFFECT C57BL/6 MICE’S STRESS, DEPRESSIVE-LIKE BEHAVIOR, AND SENSORY-MOTOR SKILLS
**Speaker:** Hatice Keser (Turkey)

**PS07-29AM-090** - EXPLORING SOCIAL HIERARCHIES: AN EXPERIMENTAL STUDY USING RFID TECHNOLOGY IN MICE

**Speaker:** Adam Brosnan (Poland)

**PS07-29AM-091** - EFFECTS OF SOCIAL STATUS ON PREFRONTAL AND HIPPOCAMPAL STRUCTURE AND FUNCTION IN ADULT FEMALE Rhesus Macaques

**Speaker:** Zsófia Kovács-Balint (United States)

**PS07-29AM-092** - CHRONIC CORTICOSTERONE ADMINISTRATION AND DECISION-MAKING IN FEMALE MICE IN AN OPERANT MOUSE GAMBLING TASK

**Speaker:** Stéphanie Cramoisy (France)

**PS07-29AM-093** - LOCKED-UP LINGO: UNVEILING SPATIAL SEPARATION-INDUCED VOCAL COMMUNICATION IN MICE

**Speaker:** Daniel Breslav (Germany)

**PS07-29AM-094** - SOCIAL STATUS IMPACTS PERIPHERAL IMMUNE RESPONSES THROUGH SYNAPSE STRENGTH IN PREFRONTAL CORTEX

**Speaker:** Helmut Kessels (Netherlands)

**Poster Sessions**

09:30 - 13:00

**Poster Session 07 - Section 140**

**PS07-29AM-577** - EXPLORING THE LINK BETWEEN INSOMNIA, DEPRESSION, ANXIETY, AND STRESS IN OLDER ADULTS WITH MCI

**Speaker:** Chrysanthi Nega (Greece)

**PS07-29AM-578** - IMPACT OF RESTLESS LEG SYNDROME SEVERITY ON COGNITIVE FUNCTION AND DEPRESSION

**Speaker:** Erika Driver-Dunckley (United States)

**PS07-29AM-579** - THE INFLUENCE OF DEPRESSION ONSET TIMING AFTER GASTROINTESTINAL DISEASE ON DEMENTIA RISK

**Speaker:** Suji Hong (Korea, Republic of)

**PS07-29AM-580** - UNVEILING AGEISM AND AGING ANXIETY IN EGYPT: A CROSS-SECTIONAL STUDY

**Speaker:** Alaa Abdelkader (Egypt)

**PS07-29AM-581** - LARKS OR OWLS? THAT IS THE QUESTION -CHRONOTYPE, SLEEP AND MENTAL HEALTH OF INTERNATIONAL STUDENTS

**Speaker:** Irine Sakhelashvili (Georgia)

**PS07-29AM-582** - EXPLORING THE INTERPLAY OF GLUCOCORTICOIDS, DAILY TIMING, SLEEP AND PSYCHOLOGY-BASED TASK PERFORMANCE

**Speaker:** Lakshmi Kalathinkunnath (Austria)

**PS07-29AM-583** - BURNOUT SYNDROME IN THE STAFF OF DIFFERENT INSTITUTIONS CORRELATED WITH EEG-EKG AND CORTISOL POST-COVID 19 PANDEMIC

**Speaker:** Estela Adriana Castellanos-Alvarado (Mexico)

**Poster Sessions**

09:30 - 13:00

**Poster Session 07 - Section 43**

**PS07-29AM-121** - ROLE OF PERINEURONAL NETS IN THE FRONTAL CORTEX IN COMPULSIVE RATS SELECTED BY SCHEDULE-INDUCED POLYDIPSIA.
**Scientific programme**

**Speaker:** Elena Martín-González (Spain)

**PS07-29AM-122**

INVESTIGATING THE ROLE OF PRENATAL VITAMIN D3: SAFETY CONSIDERATIONS IN HEALTHY CONTROL RAT

**Speaker:** Mario Ruiz Coca (Spain)

**PS07-29AM-123**

SPATIAL AND TEMPORAL STABILITY OF NEURONAL REPRESENTATIONS IN A RAT MODEL OF OCD

**Speaker:** Adam Hanzlík (Czech Republic)

**PS07-29AM-124**

MULTISCALE BRAIN DYNAMIC PATTERNS CHANGE WITH GLUTAMATE MODULATION IN OBSESSIVE-COMPULSIVE DISORDER: A COMPREHENSIVE MULTIMODAL BRAIN MAPPING APPROACH

**Speaker:** Lida Shafaghi (Iran)

**PS07-29AM-125**

THE EVALUATION OF PFOCS (PFOA OR PFHFA) ON NEURAL ACTIVITY AND SURVIVAL IN CORTICAL NEURONS

**Speaker:** Minhan Ka (Korea, Republic of)

**PS07-29AM-126**

EFFECTS OF A DOWNREGULATION OF MTORC1’S PATHWAY IN D2R CELLS OF NUCLEUS ACCUMBENS ON IMPULSIVE BEHAVIOR IN RATS.

**Speaker:** Fanny Joly (France)

**PS07-29AM-127**

PREFRONTAL-HIPPOCAMPAL NEURAL DYNAMICS UNDERLYING IMPULSIVE-LIKE BEHAVIOR IN FOOD ADDICTION

**Speaker:** Laura Ribalta Vilella (Spain)

**PS07-29AM-128**

A MIDLINE THALAMIC NUCLEUS PROMOTES COMPULSIVE-LIKE SELF-GROOMING IN RODENTS

**Speaker:** Wing-Ho Yung (Hong Kong)

**PS07-29AM-129**

IMPACT OF VENTRAL HIPPOCAMPAL CHONDROITINASE-ABC INFUSION ON PERINEURONAL NETS AND DIFFUSE EXTRACELLULAR MATRIX IN MALE LISTER HOODED RATS.

**Speaker:** Jacob Juty (United Kingdom)

**PS07-29AM-130**

ENRICHED PHENOTYPE ANALYSIS: TYING PERINEURONAL NET STRUCTURES TO HIGH AND LOW BURROWERS IN ISOLATED AND ENRICHLY HOUSED RATS.

**Speaker:** Jane Morphett (Australia)

**PS07-29AM-131**

ATTENUATION OF CHONDROITIN 4 SULFATE IN THE PERINEURONAL NETS OF PARVALBUMIN NEURONS LEADS TO PERSEVERANCE AND INCREASED SOCIAL MEMORY

**Speaker:** Jana Svobodová Burianová (Czech Republic)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 07 - Section 130**

**PS07-29AM-537**

CEREBELLAR ALTERATION IN A MOUSE MODEL OF GRIN2D-RELATED DEVELOPMENTAL AND EPILEPTIC ENCEPHALOPATHIES

**Speaker:** Mor Yam (Israel)

**PS07-29AM-538**

A NOVEL DRUG REDUCES MOTOR IMPAIRMENTS AND PREMATURE DEATH IN A GRIN2D MOUSE MODEL

**Speaker:** Danielle Galber (Israel)

**PS07-29AM-539**

CHARACTERIZATION OF A NOVEL MOUSE MODEL FOR CHD2-RELATED NEURODEVELOPMENTAL DISORDER

**Speaker:** Anat Mavashov Arzuan (Israel)
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**Poster Session 07 - Section 55**

**PS07-29AM-132**
**RHYTHMICITY OF NEURONAL OSCILLATIONS DELINEATES THEIR CORTICAL AND SPECTRAL ARCHITECTURE**
*Speaker: Vladislav Myrov (Finland)*

**PS07-29AM-133**
**LINKING THE MICROARCHITECTURE OF NEUROTRANSMITTER SYSTEMS TO LARGE-SCALE MEG RESTING STATE NETWORKS**
*Speaker: Felix Siebenhühner (Finland)*

**PS07-29AM-134**
**BREAKDOWN OF BISTABILITY IN CORTICAL SYNCHRONIZATION DYNAMICS CHARACTERIZES EARLY STAGES OF ALZHEIMER’S DISEASE**
*Speaker: Ehtasham Javed (Finland)*

**PS07-29AM-135**
**OSCILLATION-BASED FUNCTIONAL CONNECTIVITY NETWORKS REFLECT THE HETEROGENEITY OF MDD SYMPTOMS**
*Speaker: Wenya Liu (Finland)*

**PS07-29AM-136**
**ALPHA-BAND SYNCHRONIZATION SUPPORTS THE INTEGRATION OF FEATURE INFORMATION IN VISUAL WORKING MEMORY**
**Scientific programme**

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

**Speaker:** Hamed Haque (Finland)

PS07-29AM-137 **IDENTIFYING RHYTHMIC EPISODES IN SOURCE-LEVEL ELECTROMAGNETIC BRAIN ACTIVITY**

**Speaker:** Enrique Stern (Spain)

PS07-29AM-138 **A DATA-DRIVEN APPROACH FOR THE SINGLE-SUBJECT MAPPING OF NATURAL FREQUENCIES**

**Speaker:** Lydia Arana (Spain)

PS07-29AM-139 **WAVEFORM DISSOCIATES CORTICAL RHYTHMS**

**Speaker:** Janet Giehl (Germany)

PS07-29AM-140 **NEURAL NONLINEARITIES REVEAL ONLINE EFFECTS OF TACS**

**Speaker:** Nima Noury (Germany)

PS07-29AM-141 **DISENTANGLING CORTICAL DYNAMICS USING GAUSSIAN MIXTURE VARIATIONAL AUTOENCODERS**

**Speaker:** Aleksejs Timčenko (Germany)

PS07-29AM-142 **SPIKE-FIELD COUPLING PREDICTS DISTINCT OSCILLATORY WAVEFORMS IN THE PRIMATE BRAIN**

**Speaker:** Arash Shahidi (Germany)

PS07-29AM-143 **CORTEX-WIDE HIGH DENSITY ECOG AND TRANSLAMINAR LOCAL FIELD POTENTIAL RECORDINGS REVEAL RICH BROAD-BAND SPATIO-TEMPORAL DYNAMICS**

**Speaker:** Srijita Das (United States)

PS07-29AM-144 **IDENTIFYING TASK-ACTIVATED CORTEX THROUGH PHASE-AMPLITUDE COUPLING ANALYSIS**

**Speaker:** Yekaterina Kuzmina (Russian Federation)

PS07-29AM-145 **SEPARATION OF OSCILLATORY FROM FRACTAL COMPONENTS IN EEG SIGNALS: A METHODOLOGICAL COMPARISON**

**Speaker:** Michael Ernst (Germany)

PS07-29AM-146 **OSCILLTRACK - REAL-TIME OSCILLATORY PHASE AND AMPLITUDE TRACKING FOR CLOSED-LOOP STIMULATION**

**Speaker:** Colin McNamara (Ireland)

PS07-29AM-147 **A MULTISTEP ANALYSIS WORKFLOW FOR THE CLASSIFICATION OF CORTICAL LFP EVENTS**

**Speaker:** Sándor Bordé (Hungary)

PS07-29AM-148 **BIFURCATION ANALYSIS ON A TWO-NEURON MODEL OF CENTRAL PATTERN GENERATORS FOR BOTH OSCILLATORY AND CONVERGENT NEURONAL ACTIVITIES**

**Speaker:** Kotaro Muramatsu (Japan)

PS07-29AM-149 **DEPENDENCE OF HIGUCHI’S FRACTAL DIMENSION ON 1/F SLOPE AND OSCILLATORY POWER**

**Speaker:** Srishty Aggarwal (India)

PS07-29AM-150 **OSCILLATORY WAVEFORM SHAPE AND TEMPORAL SPIKE CORRELATIONS DIFFER IN THE BAT FRONTAL AND AUDITORY CORTICES**

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Speaker: Francisco Garcia-Rosales (Germany)

PS07-29AM-153 SPECPARAM 2.0: SPECTRAL PARAMETERIZATION WITH TIME-RESOLVED ESTIMATES AND UPDATED MODEL FORMS

Speaker: Thomas Donoghue (United States)

PS07-29AM-154 ESTIMATION OF EEG GAMMA OSCILLATION BIOMARKERS: EXPLORING OPEN THERMODYNAMIC CORTICAL NEURODYNAMICS VIA THE RANKINE TO CARNOT CYCLES IN HEALTHY INDIVIDUALS AND BIPOLAR PATIENTS

Speaker: R Murat Demirer (Turkey)

PS07-29AM-155 LOW-FREQUENCY OSCILLATIONS IN THE HUMAN TEMPORAL LOBE CHANGE AT SPATIAL AND COGNITIVE EVENT BOUNDARIES DURING REAL-WORLD NAVIGATION

Speaker: Cory Inman (United States)

PS07-29AM-156 BILATERAL, SYMMETRICAL OSCILLATORY DYNAMICS IN HUMAN BRAINSTEM - CAN WE UTILIZE THEM TO DIFFERENTIATE BETWEEN WAKEFULNESS AND ANAESTHESIA?

Speaker: Alceste Deli (United Kingdom)

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Poster Session 07 - Section 92

PS07-29AM-480 AMADEUSGPT: TOWARDS ATHE HUMAN-CENTRIC SYSTEM FOR ANIMAL BEHAVIOR ANALYSIS
Speaker: Shaokai Ye (Switzerland)

PS07-29AM-481 DLC2ACTION: A FLEXIBLE, POWERFUL AND EASY-TO-USE TOOLBOX FOR ACTION SEGMENTATION
Speaker: Andy Bonnetto (Switzerland)

PS07-29AM-482 DEEPLABCUT 3.0: EFFICIENT DEEP LEARNING FOR SINGLE AND MULTI-ANIMAL POSE TRACKING AND IDENTIFICATION
Speaker: Niels Poulsen (Switzerland)

PS07-29AM-483 POSE-GUIDED TRANSFORMERS FOR NON-INVASIVE REIDENTIFICATION METHODS OF UNMARKED SPECIES
Speaker: Mu Zhou (Switzerland)

PS07-29AM-484 HOISDF: ESTIMATING HAND-OBJECT INTERACTIONS FROM A SINGLE CAMERA VIA GLOBAL SIGNED DISTANCE FIELDS
Speaker: Haozhe Qi (Switzerland)

PS07-29AM-485 ANALYZING ANIMAL BEHAVIOR WITH DOMAIN-ADAPTED VISION-LANGUAGE MODELS
Speaker: Valentin Gabeff (Switzerland)

PS07-29AM-486 ACQUERING MUSCULOSKELETAL SKILLS WITH CURRICULUM-BASED REINFORCEMENT LEARNING
Speaker: Alberto Chiappa (Switzerland)

PS07-29AM-487 MODELING PROPRIOCEPTION WITH PHYSICS-INFORMED NEURAL NETWORKS
Speaker: Adriana Perez Rotondo (Switzerland)

PS07-29AM-488 MODELING THE SENSORIMOTOR SYSTEM WITH DEEP REINFORCEMENT LEARNING
Speaker: Alessandro Marin Vargas (Switzerland)

PS07-29AM-489 ELUCIDATING THE HIERARCHICAL ORGANIZATION OF NATURAL BEHAVIOR WITH MASKED AUTOENCODERS
Speaker: Lucas Stoffl (Switzerland)
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<td>Steffen Schneider (Switzerland)</td>
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<td>Kathrin Kugler (Germany)</td>
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<td>Klaus Becker (Austria)</td>
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<td>Johannes Roos (France)</td>
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<td>Aleksij Kraljic (Slovenia)</td>
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<td>AI-ASSISTED ANNOTATION OF RODENT BEHAVIORS: COLLABORATION OF THE HUMAN OBSERVER AND SMARTANNOTATOR SOFTWARE THROUGH ACTIVE LEARNING</td>
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<td>Fabien Schneider (France)</td>
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Speaker: Doris Kaltenecker (Germany)

PS07-29AM-505  THREE-DIMENSIONAL REFERENCE ATLASES FOR INTEGRATION AND ANALYSIS OF DATA FROM THE POSTNATAL MOUSE BRAIN
Speaker: Heidi Kleven (Norway)

PS07-29AM-506  SCIENTIFIC CONTENT MANAGEMENT WITH ADVANCED ML & NLP AT WORLD WIDE NEURO
Speaker: Panos Bozelos (Austria)

PS07-29AM-507  BENCHMARKING DEEP-LEARNING BASED WHOLE-BRAIN MRI SEGMENTATION TOOLS FOR MORPHOMETRY
Speaker: Victor Mello (Switzerland)

PS07-29AM-508  RE-ANALYSING THE ALLEN GENE EXPRESSION ISH DATASET WITH DEEP LEARNING
Speaker: Harry Carey (Norway)

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Poster Session 07 - Section 172

PS07-29AM-594  SPYDEN: AN OPEN-SOURCE PYTHON TOOLBOX FOR AUTOMATED MOLECULAR ANALYSIS IN DENDRITES AND SPINES
Speaker: Maximilian Eggl (Spain)

PS07-29AM-595  DEEPD3 - A DEEP LEARNING FRAMEWORK FOR DETECTION OF DENDRITIC SPINES AND DENDRITES
Speaker: Andreas Kist (Germany)

PS07-29AM-596  SKIFTITOOOLS: AN R PACKAGE FOR VISUALIZING AND MANIPULATING SKELETONIZED BRAIN DIFFUSION TENSOR IMAGING DATA FOR VERSATILE STATISTICS OF CHOICE
Speaker: Harri Merisaari (Finland)

PS07-29AM-597  DENDROTWEAKS: AN INTERACTIVE APPROACH FOR UNRAVELING DENDRITIC DYNAMICS
Speaker: Roman Makarov (Greece)

PS07-29AM-598  STREAMLINING ELECTROPHYSIOLOGY DATA ANALYSIS: A PYTHON-BASED WORKFLOW FOR EFFICIENT INTEGRATION AND PROCESSING
Speaker: Simon Gross (Switzerland)

PS07-29AM-599  MEASPIKER: AN R PACKAGE FOR STANDARDIZED ANALYSIS AND VISUALIZATION OF MULTIELECTRODE ARRAY DATA
Speaker: Carine Dalle (France)

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Poster Session 07 - Section 78

PS07-29AM-523  KIF5A, A PROTEIN INVOLVED IN AXONAL TRANSPORT, REPRESENTS A NEW DRUGGABLE TARGET IN A MOUSE MODEL OF SPINAL MUSCULAR ATROPHY
Speaker: Valeria Valsecchi (Italy)

PS07-29AM-524  KNOCKDOWN OF DMPK IN MYOTONIC DYSTROPHY TYPE 1 USING CAS13
Speaker: Hanseul Oh (Germany)

PS07-29AM-525  PLASMA NEUROFILAMENT LIGHT CHAIN IN CHINESE CHILDREN

**WITH LATER-ONSET SMA UNDER TREATMENT WITH NUSINERSEN**

**Speaker:** Shanshan Mao (China)

**PS07-29AM-526**  
**ANALYSIS OF GEMIN3 PROTEIN REGULATION AND INTRACELLULAR PATHWAYS IN MOTOR NEURONS IN THE CONTEXT OF SPINAL MUSCULAR ATROPHY**

**Speaker:** Marc Estarellas (Spain)

**PS07-29AM-527**  
**BOOSTING MFN2 LEVELS IN NEURONS USING ADENO-ASSOCIATED VIRUS (AAV) VECTORS AS A THERAPY FOR CHARCOT-MARIE-TOOTH DISEASE TYPE 2A**

**Speaker:** Marine Tessier (France)

**PS07-29AM-528**  
**SPLICE-ALTERING STRATEGIES IN A PATIENT-DERIVED OLIGODENDROCYTE CELL MODEL FOR PLP1-ASSOCIATED HYPOMYELINATION OF EARLY MYELINATING STRUCTURES**

**Speaker:** Bianca Zardetto (Netherlands)

**PS07-29AM-529**  
**CAS9 NICKASE-MEDIATED CONTRACTION OF CAG/CTG REPEATS AT MULTIPLE DISEASE LOCI**

**Speaker:** Alvaro Murillo Bartolome (United Kingdom)

**PS07-29AM-530**  
**INDUCTION OF NF1 EXON 51 SKIPPING IN PRIMARY NEURONS REVEALS NOVEL PROPERTIES OF NEUROFIBROMIN ISOFORMS**

**Speaker:** Charikleia (Charoula) Peta (Greece)

**PS07-29AM-531**  
**EXPLORATORY MOLECULAR BIOMARKERS IN ADULT SPINAL MUSCULAR ATROPHY PATIENTS TREATED WITH NUSINERSEN**

**Speaker:** Jihee Sohn (United States)

**PS07-29AM-532**  
**THE HERPESVIRUS NUCLEAR EXPORT PROTEIN BFRF1 ATTENUATES POLYQ-EXPANDED ATAXIN 3 INDUCED TOXICITY IN A DROSOPHILA MODEL OF SCA3**

**Speaker:** Ming-Tsan Su (Taiwan)

**PS07-29AM-533**  
**ROLE OF RNA BINDING PROTEINS IN NEURO-DEVELOPMENT AND NEURODEGENERATIVE DISEASES**

**Speaker:** Mousumi Mutsuddi (India)

**PS07-29AM-534**  
**UNRAVELING THE LINK BETWEEN KIF13A GENE MUTATION AND MOTOR NEURON DISORDER**

**Speaker:** Morteza Heidarzadeh (Turkey)

**PS07-29AM-535**  
**TARGETING THE RNA-BINDING PROTEIN HUD TO CONTROL ALS DISEASE**

**Speaker:** Margherita Medici (Italy)

**PS07-29AM-536**  
**INVESTIGATION OF SPASTIN-RELATED SECONDER DEGENERATIONS IN HEREDITARY SPASTIC PARAPLEGIA-SPG4**

**Speaker:** Arzu Karabay (Turkey)

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**Poster Sessions**

09:30 - 13:00  

**Poster Session 07 - Section 126**

**PS07-29AM-157**  
**ANALYSIS OF THE MOLECULAR MECHANISMS UNDERLYING CORTICOCENESIS DEFECTS UPON AFADIN DISRUPTION**

**Speaker:** Alba Marín (Spain)

**PS07-29AM-158**  
**UNRAVELING THE MOLECULAR MECHANISM REGULATED BY SOX9 IN CORTICAL NEURAL STEM CELL BEHAVIOR AND FATE COMMITMENT**

**Speaker:** Jaime Fabra Beser (Spain)
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Speaker: Gianluca Como (Italy)

PS07-29AM-175 - STURGE-WEBER SYNDROME-ASSOCIATED GAQ PROTEIN MODULATES METASTATIC SUPPRESSOR KAI1 (CD82) EXPRESSION IN NEURAL CELLS
Speaker: Rakesh Mani (Austria)

PS07-29AM-176 - THE CHROMATIN REMODELLER CHD7 ACTS AS A CHROMATIN HUB COORDINATING DIFFERENTIATION OF MULTIPLE CELL LINEAGES DURING HIPPOCAMPAL DEVELOPMENT
Speaker: Yassin Harim (Germany)

PS07-29AM-177 - CHARACTERIZATION OF RX-CRE;DICER^{F/F} MICE AS A NOVEL ANIMAL MODEL FOR EMBRYONAL TUMORS WITH MULTILAYERED ROSETTES
Speaker: Anna Prieto Colomina (Spain)

PS07-29AM-178 - NOVEL LISSENCEPHALY-ASSOCIATED NDE1 VARIANT REVEALS DISTINCT ROLES OF NDE1 AND NDEL1 IN NUCLEOKINESIS AND HUMAN CORTICAL MALFORMATIONS.
Speaker: HawYuan Cheng (Taiwan)

PS07-29AM-179 - THE ROLE OF TAP73 IN NEURODEVELOPMENT
Speaker: Karina Violou (Germany)

PS07-29AM-180 - INVESTIGATING THE ROLE OF CENTROSOME-CILIA AXIS IN HUMAN CORTICAL DEVELOPMENT ENORCHESTRATION AND MALFORMATIONS
Speaker: Athanasia Rapti (Greece)

PS07-29AM-181 - FASCIULATION ELONGATION PROTEIN ZETA 1 (FEZ1) PARTICIPATES IN CORTICOGENESIS.
Speaker: John Jia En Chua (Singapore)

PS07-29AM-182 - BRIDGING INTEGRATOR 1 (BIN1) ISOFORMS EXPRESSION IN OLIGODENDROCYTES AND THEIR PUTATIVE ROLE IN CELL CYCLE REGULATION IN SPORADIC ALZHEIMER’S DISEASE
Speaker: Wai Ting Ma (Hong Kong)

PS07-29AM-183 - INVESTIGATING THE CELLULAR AND MOLECULAR MECHANISMS OF MAST7 MUTATIONS IN CORTICAL MALFORMATION
Speaker: Agnes Dwi Ariyanti (Taiwan)

PS07-29AM-184 - EXPRESSION OF NOVEL TLK2 ISOFORMS DURING NEURONAL DIFFERENTIATION
Speaker: Lubna Nuhu-Soso (United Kingdom)

PS07-29AM-185 - ADDUCINS AFFECT CORTICAL NEUROGENESIS BY REGULATING BASAL PROGENITORS’ ABUNDANCE
Speaker: Chiara Ossola (Italy)

PS07-29AM-186 - DNA DAMAGE DURING EARLY NEUROGENESIS IMPAIRS INTERNEURON MIGRATION WITHOUT ALTERING THEIR ULTIMATE CORTICAL POSITIONING
Speaker: Lisa Berden (Belgium)

PS07-29AM-187 - THE ROLE OF SMARCA2 (BRM) SUBUNIT OF SWI/SNF/BAF COMPLEX IN CORTICAL DEVELOPMENT
Speaker: HsiangYi Lai (Taiwan)

PS07-29AM-188 - NOVEL LISSENCEPHALY-ASSOCIATED DCX VARIANTS AFFECT MICROTUBULE BINDING, DYNAMICS AND NEURONAL MIGRATION
Speaker: Jun-Ru Lin (Taiwan)
UNCOVERING THE ROLE OF RTTN IN DEVELOPING BRAINS: INSIGHTS FROM A HUMAN BRAIN ORGANOID MODEL

Speaker: Adva Hadar (Israel)

NEUROPELIN-MEDIATED SEMA 3 SIGNALING IS CRUCIAL FOR CHICK SPINAL CORD NEUROPROGENITOR CELLS TO EXIT THE CELL CYCLE AND PROTECT EARLY-BORN NEURONS FROM APOPTOSIS.

Speaker: Zoltan Meszar (Hungary)

SPATIAL PROTEOMICS REVEALS DISTINCT PROTEIN PATTERNS IN CORtical MIGRATION DISORDERS CAUSED BY LIN28A OVEREXPRESSION AND WNT ACTIVATION.

Speaker: JELENA NAVOLIC (Germany)

IN VIVO TWO-PHOTON CALCIUM IMAGING OF CORtICAL ACTIVITY DURING A HIBERNATION-LIKE STATE IN MICE

Speaker: Ching Pu Chang (Japan)

BODY TEMPERATURE REGULATES GLUCOSE METABOLISM AND TORPID BEHAVIOR

Speaker: Ming-Liang Lee (Japan)

NASAL PRESSURE DYNAMICS IN FREELY MOVING MICE REVEAL MODULATION OF THE HIPPOCAMPAL AND PIRIFORM NETWORKS BY RESPIRATION

Speaker: Giulio Casali (France)

INVESTIGATING THE RELATIONSHIP BETWEEN TORPOR, SLEEP, AND NEURAL PLASTICITY IN DJUNGARIAN HAMSTERS (PHODOPUS SUNGORUS)

Speaker: Xiao Zhou (United Kingdom)

THE ROLE OF TRH NEURONS IN ENERGY HOMEOSTASIS AND REGULATION OF BROWN ADIPOSE TISSUE

Speaker: Andreea Constantinescu (Germany)

THERMAL CONSTRAINTS ON COGNITION IN A POIKILOTHERMIC BRAIN

Speaker: Felix Baier (Germany)

INDUCING LONG-LASTING HYPOMETABOLISM IN MICE THROUGH OPTOGENETIC ACTIVATION OF HYPOTHALAMIC Q NEURONS

Speaker: Yuki Saito (Japan)

TEMPERATURE-DRIVEN NEURAL AND BEHAVIOURAL RESPONSES IN HYDRA VULGARIS

Speaker: Roberto Montanari (Germany)

COUPLING BETWEEN GLOBAL GREY MATTER AND FOURTH VENTRICLE FMRI SIGNALS LINKS WITH BRAIN CLEARANCE IN HUMANS

Speaker: Viktor Neumaier (Germany)

IMPAIRED GLYMPHATIC CLEARANCE IN SCHIZOPHRENIA
Speaker: Moritz Bonhoeffer (Germany)

PS07-29AM-551  CEREBRAL VENOUS BLOOD FLOW REGULATES BRAIN FLUID HOMEOSTASIS AND NEURO-IMMUNE SURVEILLANCE

Speaker: Marie-Renee El Kamouh (France)

PS07-29AM-552  LYMPHATIC VESSELS ACCOMPANYING THE INTERNAL CAROTID AND VERTEBRAL ARTERIES IN HUMAN

Speaker: Damlasu Altuňöz (Turkey)

PS07-29AM-553  MODERATELY HIGH LEVELS OF PLASMA METHYLGLOYXAL ARE ASSOCIATED WITH LACUNAR INFARCTS – THE MAASTRICHT STUDY

Speaker: Eline Berends (Netherlands)

PS07-29AM-554  MENINGES AS AN OVERLOOKED PHARMACOLOGICAL TARGET FOR GLOBOID CELL LEUKODYSTROPHY

Speaker: Alessia Amenta (Italy)

PS07-29AM-555  CIRCADIAN CLOCK IN CHOROID PLEXUS IS RESISTANT TO IMMUNE CHALLENGE

Speaker: Tereza Dockal (Czech Republic)

PS07-29AM-556  CHOROID PLEXUS VOLUME AS A PROXY FOR NEUROINFLAMMATION - EVALUATION OF ITS TRANS-DIAGNOSTIC, PROGNOSTIC AND THERAPEUTIC BIOMARKER POTENTIAL IN PARKINSONISM

Speaker: Liucija Vaicenaviciute (United Kingdom)

PS07-29AM-557  THE INFLUENCE OF THE TIME OF THE DAY ON THE COUPLING BETWEEN GLOBAL GREY MATTER BOLD AND CSF FLOW SIGNAL IN HEALTHY HUMANS: PRELIMINARY RESULTS

Speaker: Leander Müller (Germany)

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Poster Session 07 - Section 74

PS07-29AM-584  BEYOND ACADEMIC KINDNESS: A MULTI-STAKEHOLDER APPROACH TO ADVANCE EQUITY, DIVERSITY AND INCLUSION IN NEUROSCIENCE

Speaker: Karin Grasenick (Austria)

PS07-29AM-585  "NEUROSCIENCE? ISN'T THAT FOR CLEVER PEOPLE": BRINGING NEUROSCIENCE TO NEW AUDIENCES THROUGH PUBLIC OUTREACH AND EDUCATION

Speaker: Emma Yhnell (United Kingdom)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 170

PS07-29AM-509  ROLE OF THE NPS SYSTEM IN FEAR EXTINCTION: SEX DIFFERENCES IN EMOTIONAL REGULATION IN MICE

Speaker: Marta Méndez-Couz (Germany)

PS07-29AM-510  MOUSE OBSERVERS’ CORTICOSTERONE SECRETION IS INVOLVED IN THE ESTABLISHMENT AND RETRIEVAL OF VICARIOUS FEAR CONDITIONING

Speaker: Yi-Han Liao (Taiwan)

PS07-29AM-511  MODULATION OF FEAR EXTINCTION IN MICE BY OFFLINE OR ONLINE TDCS

Speaker: Sarah Rubens (Belgium)
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Speaker: Elisabeth Koert (Germany)

PS07-29AM-346 VISUALIZATION OF THE INTACT COCHLEA AND ITS ARCHITECTURE BY NEWLY REFINED LIGHT SHEET FLUORESCENCE MICROSCOPY

Speaker: Lennart Roos (Germany)

PS07-29AM-347 EVALUATION OF OPTOGENETIC GENE THERAPY FOR HEARING RESTORATION IN IN VIVO RODENT MODELS OF SENSORINEURAL HEARING LOSS

Speaker: Victoria Hunniford (Germany)

PS07-29AM-348 ADVANCING OPTOGENETIC HEARING RESTORATION THROUGH CROSS-MODAL OPTIMIZATION

Speaker: Anna Vavakou (Germany)

PS07-29AM-349 NEURONAL DIVERSITY IN THE ANTEROVENTRAL COCHLEAR NUCLEUS OF MONGOLIAN GERBIL.

Speaker: Sabina Nowakowska (Germany)

PS07-29AM-350 EFFECT OF ELECTRICAL MICROSTIMULATION PARAMETERS ON IN VIVO NEURONAL CALCIUM RESPONSES IN THE VISUAL CORTEX OF MICE

Speaker: Eszter Nguyen (Hungary)

PS07-29AM-351 HIGH PRECISION ULTRASOUND STIMULATION OF THE RETINA WITH PHOTOACOUSTIC MEMBRANE

Speaker: Audrey Leong (France)

PS07-29AM-352 CARBON-BASED NEURAL INTERFACES TO PROBE RETINAL AND CORtical CIRCUITS WITH FUNCTIONAL ULTRASOUND IMAGING IN VIVO

Speaker: Julie Zhang (France)

PS07-29AM-353 SONOGENETICS: FROM THE MECHANO-SENSITIVE CHANNEL TO BRAIN STIMULATION FOR VISUAL RESTORATION

Speaker: Erwan Dessailly (France)

PS07-29AM-354 OPTOGENETICS STIMULATION IN THE VISUAL THALAMUS FOR FUTURE BRAIN VISION PROSTHESSES

Speaker: Florian Fallegger (France)

PS07-29AM-355 DEVELOPMENT AND APPLICATION OF L-SHAPED VERTICAL MICRO-COILS FOR IN VIVO NEUROSTIMULATION IN TWO-PHOTON MICROSCOPY

Speaker: Xiyuan Liu (Denmark)

PS07-29AM-356 NEURONAL MORPHOLOGY IMPACTS OPTOGENETIC STIMULATION PRECISION

Speaker: David Berling (Czech Republic)

PS07-29AM-357 A RETINA-INSPIRED OPTOELECTRONIC SYNAPSE USING QUANTUM DOTS FOR NEUROMORPHIC PHOTOSTIMULATION OF NEURONS

Speaker: Ridvan Balamur (Turkey)

PS07-29AM-358 TOWARDS A VISUAL PROSTHESIS RESPECTING CORtical FUNCTIONAL REPRESENTATIONS

Speaker: Karolina Korvasová (Czech Republic)

PS07-29AM-359 A RETINOTOPIC-AND-ORIENTATION-BASED STIMULATION STRATEGY INDUCES NEURAL ACTIVITY PATTERNS MIMICKING NATURAL VISION

Speaker: Ján Antolík (Czech Republic)
PS07-29AM-360  RETINOTOPIC CHARACTERIZATION OF PRIMATE VISUAL CORTEX USING FUNCTIONAL ULTRASOUND IMAGING FOR SONOGENETIC STIMULATION
Speaker: Ignacio Alcala (France)

PS07-29AM-361  UNVEILING THE POTENTIAL OF PATTERN-STIMULATION IN VISUAL PROSTHESES FOR ACTIVITIES OF DAILY LIVING
Speaker: Dorota Wacławczyk (Spain)

PS07-29AM-362  COMPARISON OF MODULATION EFFICIENCY BETWEEN NORMAL AND DEGENERATED PRIMATE RETINA
Speaker: YONG SOOK GOO (Korea, Republic of)

PS07-29AM-363  COMPARING THE EFFECTS OF OPTOGENETIC AND ELECTRICAL STIMULATION OF MACAQUE V1 ON VISUAL BEHAVIOUR
Speaker: Marta Falkowska (Switzerland)

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Poster Session 07 - Section 154
PS07-29AM-224  LIPID DROPLET PATHOLOGY IN THE HIPPOCAMPUS OF AGED WILD-TYPE AND PERILIPIN2 KNOCKOUT MICE
Speaker: Mona Havik (Norway)

PS07-29AM-225  IMPACT OF TYPE 2 DIABETES AND HIGH-INTENSITY INTERVAL EXERCISE ON NEUROGENESIS, ANGIOGENESIS, AND THE ACCUMULATION OF LIPID DROPLETS IN THE HIPPOCAMPUS
Speaker: Harald Stranger Mjønes (Norway)

PS07-29AM-226  INVESTIGATING LIPID DROPLET REGULATION AND MICROGLIA ACTIVATION AS INTRINSIC ADAPTATIONS IN BRAINS OF THE AFRICAN NAKED MOLE RAT
Speaker: Liv Svenningsson Krogstad (Norway)

PS07-29AM-227  CELL-SPECIFIC REGULATION OF NEURONAL AND GLIAL GLUCOSE METABOLISM BY NEURODEGENERATION-ASSOCIATED PROTEIN TDP-43
Speaker: Ismail Gbadamosi (Poland)

PS07-29AM-228  NEUROTOXIN MEDIATED NEURONAL DYSFUNCTION REGULATED BY LYSOSOMAL FUNCTION.
Speaker: Jinhong Wie (Korea, Republic of)

PS07-29AM-229  EXPLORING SHARED PATHWAYS THAT CONTRIBUTE TO BOTH NORMAL BRAIN AGING AND NEURODEGENERATIVE DISORDERS
Speaker: Nilashma Laha (India)

PS07-29AM-230  AUTO-NRIP ANTIBODY IS ASSOCIATED WITH AMYOTROPHIC LATERAL SCLEROSIS DISEASE PROGRESSION
Speaker: Show-Li Chen (Taiwan)

PS07-29AM-231  TROPOMYOSIN DEPLETION AFFECTS NEURAL CELL DEVELOPMENT, SIGNALLING AND UPTAKE OF PATHOLOGICAL PROTEINS
Speaker: Sian Genoud (Australia)

PS07-29AM-232  TUSC5 ROLE IN GLOBAL AND NEURONAL METABOLISM
Speaker: Tudor Constantin Badea (Romania)

PS07-29AM-233  CHANGES IN NEUROTRANSMITTER ATP/ADENOSINE DYNAMICS IN THE PATHOGENESIS OF METABOLIC LIVER DISEASES
Speaker: Tomoko Tokumaru (Japan)

PS07-29AM-234  IRREVERSIBLE SHIFT OF TDP-43 INTO THE CYTOPLASM ALTERS
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ITS PROTEIN NETWORK

**Speaker:** Jerneja Nimac (Slovenia)

**PS07-29AM-235** EXPRESSION OF MEMBRANE PROTEINS IS DISRUPTED IN C9ORF72 MUTATION ALS AND FTD

**Speaker:** Urša Čerček (Slovenia)

**PS07-29AM-236** INVESTIGATING THE MOLECULAR BASIS FOR SELECTIVE VULNERABILITY IN FET-LINKED AMYOTROPIC LATERAL SCLEROSIS (ALS) AND FRONTO-TEMPORAL DEMENTIA (FTD).

**Speaker:** Laura Aiwanse Odemwingie (United Kingdom)

**PS07-29AM-237** CEREBELLAR NEURODEGENERATION IN PHOSPHOLIPID FLIPPASES ATP8A1/ATP8A2 DOUBLE KNOCK-OUT MICE CAN BE AMELIORATED BY INACTIVATING A MICROGLIAL PS RECEPTOR

**Speaker:** Shu Tokunaga (Japan)

**PS07-29AM-238** SHEDDING LIGHT ON CENTRAL NERVOUS SYSTEM TREHALOSE ACTIVITY

**Speaker:** Luca Murru (Italy)

**PS07-29AM-239** COMPARATIVE PROTEOMIC PROFILING TO IDENTIFY MECHANISMS GOVERNING NERVOUS SYSTEM STABILITY IN NEURODEGENERATIVE DISEASE.

**Speaker:** Swetha Umashankar (United Kingdom)

**PS07-29AM-240** RNA-BINDING PROPERTIES INFLUENCE PHASE SEPARATION OF TDP-43 IN VIVO

**Speaker:** Cindy Maurel (Australia)

**PS07-29AM-241** HYPERLIPIDEMIA DOES NOT SUPPRESS MITOPHAGY IN THE HIPPOCAMPUS

**Speaker:** Naz Mengi Camur (Turkey)

**PS07-29AM-242** MULTI-OMICS APPROACH IDENTIFIED A NETWORK OF LIPIDS AND PROTEINS ASSOCIATED TO LYSOSOMAL AND MITOCHONDRIAL METABOLISM IN PARKINSON’S DISEASE PATIENTS CARRYING MUTATIONS IN TMEM175 GENE

**Speaker:** Federica Carrillo (Italy)

**PS07-29AM-244** DYSREGULATED LIPID METABOLISM AND NEUROINFLAMMATION FOLLOWING HIGH FAT DIET IN THE TDP-43Q331K-LOW TRANSGENIC MOUSE MODEL OF ALS-FTD

**Speaker:** Cortina Chen (United Kingdom)

**PS07-29AM-245** REGULATION OF TMEM106B, A GENE IMPLICATED IN NEURODEGENERATION, BY NEURONAL SRC KINASE

**Speaker:** Gareth Evans (United Kingdom)

**PS07-29AM-246** STUDY OF LIPID DROPLETS IN BRAIN AGING AND NEURODEGENERATION

**Speaker:** Emanuela Grillo (Italy)

**PS07-29AM-247** THE EFFECT OF ALTERED GANGLIOSIDE COMPOSITION ON LEPTIN RECEPTOR AND NA⁺,K⁺-ATPASE IN MOUSE THALAMUS

**Speaker:** Vinka Potočki (Croatia)

**PS07-29AM-248** MOLECULAR ELUCIDATION OF LIPOFUSCIN IN THE AGING BRAIN AND A RARE PEDIATRIC DEMENTIA

**Speaker:** Sofia Tieze (United States)

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PS07-29AM-207 - WHOLE-BRAIN MRNA IMAGING UNVEILS THE DYNAMICS OF NEUROINFLAMMATION AFTER STROKE

Speaker: Lea Lydolph Larsen (Denmark)

PS07-29AM-208 - EXTRACELLULAR MATRIX AND MICROGLIA INTERACTIONS IN STROKE RECOVERY

Speaker: Egor Dzyubenko (Germany)

PS07-29AM-209 - INFLUENCE OF SEROTONERGIC MODULATION IN RECOVERY AFTER STROKE

Speaker: Amido Daugardt (Germany)

PS07-29AM-210 - MORPHOLOGICAL HETEROGENEITY OF CNS BORDER-ASSOCIATED MACROPHAGES AFTER PHOTOTHROMBOTIC STROKE

Speaker: Tae-Ryong Riew (Korea, Republic of)

PS07-29AM-211 - ROLE OF PROTEIN KINASE N1 IN CEREBRAL ENERGY METABOLISM AND STROKE

Speaker: Stephanie zur Nedden (Austria)

PS07-29AM-212 - IS HYPERHOMOCYSTEINEMIA PREVENTABLE RISK FACTOR FOR DEVELOPMENT OF ISCHEMIC STROKE?

Speaker: Jan Lehotsky (Slovakia)

PS07-29AM-213 - O2L-001, AN INNOVATIVE THROMBOLYTIC TO EVACUATE INTRACEREBRAL HAEIMATOMA

Speaker: Audrey Thiebaut (France)

PS07-29AM-214 - SYSTEMATIC REVIEW AND META-ANALYSIS OF THE EFFECT OF SEX ON STROKE OUTCOMES IN ANIMAL MODELS OF ISCHEMIC STROKE

Speaker: Sofija Vojvodic (Germany)

PS07-29AM-215 - A NOVEL MOUSE MODEL OF LIGHT-MEDIATED RECANALIZATION AFTER STROKE

Speaker: Anna Letizia Allegra Mascaro (Italy)

PS07-29AM-216 - APC/CDH1-ROCK2 AXIS PROMOTES BRAIN REPAIR AFTER STROKE

Speaker: Rebeca Lapresa Ruiz de Gauna (Spain)

PS07-29AM-217 - INTRACRANIAL ATHEROSCLEROTIC PLAQUE AND WALL ENHANCEMENT REFLECT THE ENDOTHELIAL DAMAGE AND ARTERIAL INFLAMMATORY LEVEL THROUGH ECM-1 LEVELS AND CCR5 EXPRESSION IN MONOCYTES

Speaker: Jesus Agulla (Spain)

PS07-29AM-218 - STUDY ON THE EFFICACY AND MECHANISM OF GINSENOSIDE IN THE PREVENTION OF CEREBRAL ISCHEMIC STROKE

Speaker: Yan Pan (Hong Kong)

PS07-29AM-219 - BRAIN-WIDE MICROSTROKES AFFECT THE STABILITY OF MEMORY CIRCUITS IN THE HIPPOCAMPUS

Speaker: Hendrik Heiser (Switzerland)

PS07-29AM-220 - SUBACUTE INHIBITION OF PLASMA KALLIKREIN STABILIZES THE BLOOD-BRAIN BARRIER AND PROMOTES REGENERATION AFTER ISCHEMIC STROKE

Speaker: Steffen Haupeltshofer (Germany)

PS07-29AM-221 - STUDYING ACUTE ISCHEMIC STROKE (AIS) CLOTS FOR NOVEL STROKE BIOMARKER DISCOVERY

Speaker: Karen Doyle (University of Galway, Ireland)
PS07-29AM-222  UNRAVELING NEUROINFLAMMATION AND CYTOSKELETON DYNAMICS IN BRAIN ISCHEMIA: INSIGHTS FROM AN OXYGEN-GLUCOSE DEPRIVATION MODEL OF STROKE IN ORGANOTYPIC HIPPOCAMPAL CULTURES FOR ANTI-INFLAMMATORY STRATEGIES

*Speaker:* Natalia Bryniarska-Kubiak (Poland)

PS07-29AM-223  HYPERGLYCEMIA AFFECTS MITOCHONDRIAL RESPIRATORY CHAIN BUT NOT THE HYDROGEN PEROXIDE PRODUCTION IN NEURONS DURING ISCHEMIC STROKE

*Speaker:* Kseniia Morozova (Russian Federation)

**Poster Sessions**

**09:30 - 13:00**

**Poster Session 07 - Section 13**

PS07-29AM-109  THE EFFECT OF STIMULUS MODALITY AND STIMULUS COMPLEXITY ON ASSOCIATIVE EQUIVALENCE LEARNING IN HEALTHY HUMANS

*Speaker:* Noémi Harcsa-Pintér (Hungary)

PS07-29AM-110  VISUAL ASSOCIATIVE LEARNING IN MIGRAINE: THE IMPACT OF STIMULUS COMPLEXITY AND SEMANTIC CONTENT

*Speaker:* Kálmán Tót (Hungary)

PS07-29AM-111  SEMANTIC MEMORIES ARE NOT GENERATED FROM MULTIPLE EPISODIC MEMORIES

*Speaker:* Anumita Samanta (Netherlands)

PS07-29AM-112  EFFECTS OF HIGH INTENSITY WHITE NOISE ON SHORT-TERM AND LONG-TERM MEMORY ON MALE AND FEMALE RATS

*Speaker:* Nino Pochkhidze (Georgia)

PS07-29AM-113  A NOVEL INTERACTION PATTERN BETWEEN CONSECUTIVE TRAINING EXPERIENCES: LONG-TERM MEMORY AUGMENTATION RATHER THAN INTERFERENCE IN MOTOR SEQUENCE LEARNING

*Speaker:* Yaniv Oren (Israel)

PS07-29AM-114  ROLE OF GREEN TEA CATECHIN IN ENHANCING LONG-TERM MEMORY VIA TASTE AVERSION CONDITIONING IN THE POND SNAIL, *LYMNAEA STAGNALIS*

*Speaker:* Yoshimasa Komatsuzaki (Japan)

PS07-29AM-115  ROLE OF IONOTROPIC GLUTAMATE RECEPTORS IN MULTIMODAL LEARNING OF PHEROMONE LOCATIONS

*Speaker:* Shruti Dattatray Marathe (India)

PS07-29AM-116  EFFECT OF PSYCHOTOMIMETIC DIZOCILPINE ON COORDINATION OF PLACE AND TIME REPRESENTATIONS IN RATS

*Speaker:* Eduard Kelemen (Czech Republic)

PS07-29AM-117  SEX DIMORPHIC ROLE OF NMDA RECEPTORS IN HIPPOCAMPAL-DEPENDENT SPATIAL MEMORY AND PLASTICITY DURING JUVENILITY.

*Speaker:* Nisha Rajan Narattil (Israel)

PS07-29AM-118  RETRIEVAL INHIBITION DURING SENSORIMOTOR CONSOLIDATION MODULATES MEMORY RETENTION

*Speaker:* Masuto Ryosuke (Japan)

PS07-29AM-119  ENCODING OF NEW AND OLD MEMORY DURING WAKE AND QUIESCENT STATES IN A PHARMACOLOGICAL MODEL OF PSYCHOSIS BY THE NMDA RECEPTOR BLOCKER MK-801.
**Scientific programme**

**Speaker:** Karel Blahna (Czech Republic)

**PS07-29AM-120**  
**NMDAR BLOCKADE IMPAIRS COGNITIVE CONTROL NECESSARY FOR EVIDENCE ACCUMULATION AND SHORT-TERM MEMORY**

**Speaker:** Alexis Cerván (Spain)

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**Poster Sessions**  
09:30 - 13:00

**Poster Session 07 - Section 141**

**Speaker:** Laura Boreggio (Germany)

**PS07-29AM-018**  
**BRAIN SEROTONIN DEFICIENCY AFFECTS EARLY POSTNATAL DEVELOPMENT AND BEHAVIOR**

**Speaker:** Niccolò Milani (Germany)

**PS07-29AM-019**  
**EXTRAEMBRYONIC SOURCE OF SEROTONIN INVOLVED IN NEURODEVELOPMENT**

**Speaker:** Silvia Elisabetta Portis Bruzzone (Denmark)

**PS07-29AM-020**  
**SLC6A4 AND TPH2 METHYLATION AS POTENTIAL BIOMARKERS TO INFORM ANTIDEPRESSANT TREATMENT CHOICES**

**Speaker:** Marta Samina (Netherlands)

**PS07-29AM-021**  
**LEVELS OF SEROTONIN DURING BRAIN DEVELOPMENT IMPORTANT FOR THE FUNCTIONAL INTERPLAY OF INSTRUCTING TRANSMITTER SYSTEMS**

**Speaker:** Marta Samina (Netherlands)

**PS07-29AM-022**  
**DECREASED BRAIN SEROTONIN IN RBFOX1 MUTANT ZEBRAFISH AND PARTIAL REVERSION OF BEHAVIOURAL ALTERATIONS BY THE SSRI FLUOXETINE**

**Speaker:** Maja R. Adel (Spain)

**PS07-29AM-023**  
**SHARED GENETICS BETWEEN ADDICTION, AGGRESSION AND RELATED BEHAVIOURAL TRAITS**

**Speaker:** Edurne Gago Garcia (Spain)

**PS07-29AM-024**  
**MEDIAL PREFRONTAL CORTEX SEROTONIN DYNAMICS IN SOCIAL AND SOCIO-COGNITIVE PROCESSES.**

**Speaker:** Marco Niello (Italy)

**PS07-29AM-025**  
**SEROTONIN1A-RECEPTOR-MEDIATED SIGNALING IN ASTROCYTES AND ITS INFLUENCE ON MAJOR DEPRESSIVE DISORDER**

**Speaker:** Svenja Bremshey (Germany)

**PS07-29AM-026**  
**HETERODIMERIZATION AND INTERACTION OF THE SEROTONIN-RECEPTORS 5-HT1A AND 5-HT2C**

**Speaker:** Imandra Kempe (Germany)

**PS07-29AM-027**  
**HIV-1 TAT PROTEIN INDUCES INHIBITION OF SEROTONIN TRANSPORTER IN THE MIDBRAIN AND INCREASES SEROTONIN RELEASE DYNAMICS IN THE SUBSTANTIA NIGRA OF INDUCIBLE TAT TRANSGENIC MICE**

**Speaker:** Jun Zhu (United States)

**PS07-29AM-028**  
**MODULATION OF PREFRONTAL CORTEX NETWORK DYNAMICS: A PIVOTAL ROLE OF SEROTONIN?**

**Speaker:** Juliana Gross (Germany)

**PS07-29AM-029**  
**INHIBITORY EFFECT OF SEROTONIN ON HRP-BASED PROXIMITY LABELLING**

**Speaker:** Zora Chui Kuen Chan (United Kingdom)

**PS07-29AM-030**  
**5-HT DYNAMICS IN A MOUSE MODEL OF DEPRESSION**

**Speaker:** Kim Renken (Germany)
PS07-29AM-031  
**CADHERIN-13 DEFICIENCY IMPACTS MURINE SEROTONERGIC CIRCUITRIES AND COGNITIVE FUNCTION**

*Speaker:* Catharina Hamann (Germany)

PS07-29AM-032  
**MOM MATTERS: EXPOUND THE INFLUENCE OF THE MATERNAL SEROTONIN TRANSPORTER GENOTYPE ON OFFSPRING’S NEURODEVELOPMENT**

*Speaker:* Lingling Mai (Netherlands)

PS07-29AM-033  
**SEROTONIN REGULATES IMMUNE CELL INFILTRATION TO THE BRAIN COMPARTMENT**

*Speaker:* Dorit Farfara Cohen (Israel)

PS07-29AM-034  
**PROBING THE NEUROMODULATORY EFFECT OF SSRIS ON SEROTONIN RELEASE ACROSS BRAIN REGIONS WITH IMPROVED ISEROSNFR**

*Speaker:* Emily Wright (United States)

PS07-29AM-035  
**OREXIN RECEPTOR 1 AND 5-HYDROXYTRIPTAMINE 2C RECEPTOR FORM HETEROMERS WITH FUNCTIONAL IMPLICATIONS**

*Speaker:* Africa Flores (Spain)

PS07-29AM-036  
**FRONTO-STRIATAL DYNAMICS AND OPTOGENETIC APPROACHES TO REMODEL IMPULSIVE CHOICE**

*Speaker:* Nikita Gorbunov (Germany)

PS07-29AM-037  
**PERINATAL SEROTONIN SIGNALLING DYNAMICALLY INFLUENCES THE DEVELOPMENT OF GABAERGIC CIRCUITS WITH CONSEQUENCES FOR LIFELONG SENSORY PERCEPTION**

*Speaker:* Gabriel Ocana Santero (United Kingdom)

PS07-29AM-038  
**TPH2 KNOCKOUT RATS CANNOT ACCEPT SOCIAL DEFEAT IN RESIDENT-INTRUDER TEST**

*Speaker:* Ilya Zhukov (Russian Federation)

PS07-29AM-039  
**UNLOCKING THE POTENTIAL OF PARTIAL EFFICACY: A NOVEL INSIGHT INTO MONOAMINE NEUROTRANSMITTER TRANSPORTERS**

*Speaker:* MOHAMMAD NAZMUL ISLAM (Austria)

PS07-29AM-040  
**FLUORESCENT DRUG CONJUGATES FOR IMAGING THE SEROTONIN TRANSPORTER**

*Speaker:* Oliver Belleza (Austria)

PS07-29AM-041  
**NEUROCHEMICAL MECHANISMS UNDERLYING SEROTONERGIC MODULATION OF NEUROPLASTICITY IN HUMANS**

*Speaker:* Lorena de Melo (Germany)

PS07-29AM-042  
**ASSOCIATION BETWEEN NEWLY IDENTIFIED SEROTONIN TRANSPORTER MISSENSE VARIANTS AND CHRONIC AFFECTIVE DISORDERS: MOLECULAR INSIGHTS AND POTENTIAL THERAPEUTIC AVENUE.**

*Speaker:* Jade Degrandmaison (Denmark)

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**Poster Sessions**

09:30 - 13:00

**Poster Session 07 - Section 127**

PS07-29AM-391  
**UPREGULATED EXTRACELLULAR MATRIX-RELATED GENES AND IMPAIRED SYNAPTIC ACTIVITY IN DOPAMINERGIC AND HIPPOCAMPAL NEURONS DERIVED FROM PARKINSON’S DISEASE PATIENTS WITH PINK1 AND PRKN MUTATIONS**

*Speaker:* Utkarsh Tripathi (Israel)
PS07-29AM-392  THETA AND GAMMA RHYTHMICITY IN THE PREFRONTAL CORTEX AND NUCLEUS ACCUMBENS REFLECT DISTINCT SOCIAL MOTIVATIONAL STATES IN DIFFERENT STRAINS OF MICE AND RATS

Speaker: Rishika Tiwari (Israel)

PS07-29AM-393  NEURONAL IMPAIRMENT AND TREATMENT PROSPECTS IN SMITH MAGENIS SYNDROME: FINDINGS FROM PATIENT-SPECIFIC NEURONAL MODEL

Speaker: Ritu Nayak (Israel)

PS07-29AM-394  IDENTIFYING CANDIDATE GENES ASSOCIATED WITH HIPPOCAMPAL DYSFUNCTION IN A HEMIPARKINSONIAN RAT MODEL BY TRANSCRIPTOMIC PROFILING

Speaker: Changjong Moon (Korea, Republic of)

PS07-29AM-395  MOLECULAR AND BEHAVIORAL DEFICITS IN LEWY BODY DISEASE MODELS OF CAENORBABDITIS ELEGANS

Speaker: Rongzhen Li (Macao)

PS07-29AM-396  PIWI-INTERACTING RNA EXPRESSION REGULATES PATHOGENESIS IN A CAENORBABDITIS ELEGANS MODEL OF LEWY BODY DISEASE

Speaker: Gary Wong (Macao)

PS07-29AM-397  A GENETIC MODEL OF GAUCHER’S DISEASE IN THE NEMATODE CAENORBABDITIS ELEGANS

Speaker: Ning Liu (Macao)

PS07-29AM-398  IDENTIFICATION OF THE STRIATAL MOLECULAR LANDSCAPE IN PARKINSON’S DISEASE MOUSE MODELS

Speaker: Marta Graziano (Sweden)

PS07-29AM-399  STRUCTURAL AND FUNCTIONAL ANALYSIS OF ER-MITOCHONDRIAL CONTACT SITES IN PRKN-MUTANT PATIENT DOPAMINERGIC NEURONS DERIVED FROM TYROSINE HYDROXYLASE REPORTER IPSC LINES

Speaker: Masato Koike (Japan)

PS07-29AM-400  CHARACTERIZATION OF TRANSGENIC MOUSE LINES OVEREXPRESSING THE OVINE PRION PROTEIN USING WELL-DEFINED SCRAPIE AND BOVINE SPONGIFORM ENCEPHALOPATHY STRAINS

Speaker: Olanrewaju Fatola (Nigeria)

PS07-29AM-401  A NEW ZEBRAFISH TRANSGENIC LINE EXPRESSING HUMAN ALPHA-SYNUCLEIN TO STUDY THE BIOLOGICAL BASIS OF PARKINSON’S DISEASE.

Speaker: Silvia Zini (Italy)

PS07-29AM-402  DIFFERENTIAL EXPRESSION OF CX36 IN THE RETICULO-THALAMIC NUCLEUS AND HIPPOCAMPUS IN A RAT MODEL OF PARKINSON’S DISEASE

Speaker: Andrea Novakovic (Serbia)

PS07-29AM-403  MODULATION OF 5-HT4R AFFECTS L-DOPA-INDUCED DYSKINESIA IN UNILATERALLY 6-OHDA LESIONED MICE

Speaker: Demetra Ballardin (France)

PS07-29AM-404  UNDERSTANDING MIDBRAIN DOPAMINERGIC CELL FATE ACQUISITION USING MIDBRAIN-LIKE ORGANOIDs FOR PARKINSON’S DISEASE CELL THERAPY

Speaker: Hilary Toh (Singapore)

PS07-29AM-405  UNRAVELLING THE NEUROPROTECTIVE ROLE OF MITOCHONDRIAL QUALITY CONTROL IN LUHMES, A
DOPAMINERGIC MODEL OF PARKINSON’S DISEASE.

Speaker: Marta Domínguez-Prieto (United Kingdom)

PS07-29AM-406 NEUROPATHOLOGY OF THE STRIATUM IN X-LINKED DYSTONIA PARKINSONISM

Speaker: Oliver Burnett (New Zealand)

PS07-29AM-407 BEHAVIORAL AND HISTOLOGICAL HALLMARKS OF AN INTRASTRIATAL ROTENONE MOUSE MODEL FOR PARKINSON’S DISEASE

Speaker: Paula Jauregi Barandica (Austria)

PS07-29AM-408 DOPAMINE NEURON DYSFUNCTION AND LOSS IN THE PRKNR275W MOUSE MODEL OF JUVENILE PARKINSONISM

Speaker: Maria Regoni (Italy)

PS07-29AM-409 SEVERITY ASSESSMENT IN THE UNILATERAL AND BILATERAL 6-OHDA RAT PARKINSON MODEL: TELEMETRIC MONITORING OF HEART RATE AND ACTIVITY

Speaker: Marcel Roland Oelerich (Germany)

PS07-29AM-410 FUNCTIONAL CHANGES IN THE BASAL GANGLIA-THALAMUS-CORTEX LOOP IN L-DOPA-INDUCED DYSKINESIA IN A MOUSE MODEL OF UNILATERAL PARKINSON’S DISEASE

Speaker: Tomokazu Tsurugizawa (Japan)

PS07-29AM-411 NEURAL ORIGINS OF FORELIMB MOTOR DYSFUNCTIONS IN A MOUSE MODEL OF PARKINSON’S DISEASE

Speaker: Antea Minetti (Italy)

PS07-29AM-412 SPATIAL AND FUNCTIONAL PROFILES DISTINGUISH TARGET SETS OF PARKINSON’S DISEASE AND SCHIZOPHRENIA DRUGS WITH DIFFERENT CLINICAL OUTCOMES

Speaker: Kalyani Karunakaran (United Kingdom)

PS07-29AM-413 MOUSE MODEL OF DOPAMINE TRANSPORTER-ASSOCIATED PARKINSONISM AND CO-MORBID PSYCHIATRIC DISEASE

Speaker: Jamila Lilja (Denmark)

PS07-29AM-414 A DEEP SEQUENCING INVESTIGATION OF MITOCHONDRIAL DNA DAMAGE IN CHOLINERGIC NEURONS OF THE PEDUNCELOPONTINE NUCLEUS

Speaker: Amelia Lu (United Kingdom)

PS07-29AM-415 TRANSGENIC MOUSE MODEL OF PARKINSONISM DYSTONIA TYPE2 PKDYS2

Speaker: reem alkhater (Saudi Arabia)

PS07-29AM-416 COMPARATIVE EXAMINATION OF THE VENTRAL TEGMENTAL AREA IN WILD TYPE AND PITUITARY ADENYLATE CYCLASE-ACTIVATING POLYPEPTIDE (PACAP) KNOCKOUT MICE

Speaker: Andrea Tamás (Hungary)

PS07-29AM-417 A COMPREHENSIVE FUNCTIONAL AND OMICS APPROACH IN PATIENT-DERIVED DOPAMINERGIC NEURONS IDENTIFIED A SPECIFIC MOLECULAR SIGNATURE ASSOCIATED TO NOVEL PARKINSON’S DISEASE CANDIDATE GENES

Speaker: Giorgio Fortunato (Italy)

PS07-29AM-418 CHARACTERIZATION OF THE AUTOPHAGIC-LYSOSOMAL PATHWAY IN PARKINSON’S DISEASE USING PATIENT IPSC-DERIVED DOPAMINERGIC NEURONS CONTAINING A LRRK2 G2019S MUTATION

Speaker: Sandra Coveney (United States)

PS07-29AM-419 UNRAVELLING THE ROLE OF CHCHD2 IN MITOCHONDRIAL

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DYSFUNCTION: IMPLICATIONS FOR PARKINSON’S DISEASE AND BEYOND
Speaker: Jule Gerlach (Sweden)

PS07-29AM-420  
ELUCIDATING A NOVEL ROLE OF PARKINSON’S DISEASE-ASSOCIATED PROTEIN PARKIN (PARK2) IN SYNAPTIC MEMBRANE TRAFFICKING

Speaker: Sidra Mohamed Yaqoob (Singapore)

PS07-29AM-421  
MORPHOLOGICAL ALTERATIONS OF STRIATAL PERINEURONAL NETS IN A RAT MODEL OF PARKINSONISM AND LEVODOPA-INDUCED DYSKINESIAS

Speaker: Nedime Tugce Bilbay (Turkey)

PS07-29AM-422  
INVESTIGATING THE ROLE OF RAB PROTEINS IN MITOCHONDRIAL DYSFUNCTION RELATED TO PARKINSON’S DISEASE

Speaker: Martina Brughera (Italy)

PS07-29AM-423  
ANKK1, ANKRD50, GRK5, PACSIN1 AND VPS8 ARE NOVEL CANDIDATE GENES ASSOCIATED WITH LATE ONSET PARKINSON’S DISEASE

Speaker: Teresa Esposito (Italy)

PS07-29AM-424  
EFFECTS OF PROGRESSIVE DOPAMINE LOSS ON MOVEMENT CESSATION AND INITIATION: INSIGHTS INTO BASAL GANGLIA NETWORK DYNAMICS FROM A GENETIC MODEL OF PARKINSON’S DISEASE

Speaker: Selena Gonzalez (United States)

PS07-29AM-425  
CONSTRUCTING AN ARTIFICIAL INTELLIGENCE ALGORITHM BASED ON AWAKE MOUSE BRAIN CALCIUM IMAGING AS A RAPID SCREENING PLATFORM FOR THE DEVELOPMENT OF PARKINSON’S DISEASE DRUGS

Speaker: Shiu-Hwa Yeh (Taiwan)

PS07-29AM-426  
NOVEL INSIGHTS IN OLIGODENDROGLIA AS A KEY CELL TYPE IN PARKINSON’S DISEASE

Speaker: Juan Manuel Barba Reyes (Spain)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 51

PS07-29AM-377  
CONTRIBUTION OF ARKYPALLIDAL GLOBUS PALLIDUS NEURONS TO LEVODOPA-INDUCED DYSKINESIAS

Speaker: Lise Guilhemsang (France)

PS07-29AM-378  
CELLULAR AND SYNAPTIC ALTERATIONS OF ARKYPALLIDAL NEURONS IN EXPERIMENTAL PARKINSONISM AND L-DOPA-INDUCED DYSKINESIA.

Speaker: Bonamy Léa (France)

PS07-29AM-379  
NEUROANATOMICAL BASIS FOR THE ANTI-NOCICEPTIVE ROLE OF THE RELAXIN-3/RXFP3 PEPTIDERIC SYSTEM.

Speaker: Thibault Dhellemmes (France)

PS07-29AM-380  
OPTOGENETIC MANIPULATIONS OF CORTICO-PALLIDAL PATHWAY IMPACT SPECIFIC ASPECTS OF MOTOR BEHAVIOUR IN MICE.

Speaker: Abdel-Mouttalib Ouagazzal (France)

PS07-29AM-381  
GABAERGIC TRANSMISSION FROM THE EP TO THE THALAMUS

Speaker: Aef Abu Mukh (Israel)
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<td>MOTOR ARREST BY STIMULATION OF THE PEDUNCULOPONTINE NUCLEUS DISRUPTS PERCEPTION OF VISUAL CUE IN A VISUOSPATIAL CUE TASK</td>
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<td>OPTOGENETIC INHIBITION OF PARVALBUMIN INTERNEURONS IN THE MEDIAL STRIATUM DURING A PERCEPTUAL DECISION-MAKING TASK</td>
<td>Anne Lorenz (France)</td>
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<td>THE ROLE OF THE EFFERENT VENTRAL PALLIDAL PATHWAYS IN DEFAULT MODE NETWORK REGULATION</td>
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<td>PREDICTION AND PREVENTION OF COMPULSIVE BEHAVIORS BY CLOSED-LOOP OPTOGENETIC RECRUITMENT OF STRIATAL INTERNEURONS.</td>
<td>Eric Burguiere (France)</td>
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<td>SENSORY PROCESSING AND MEMBRANE PROPERTIES OF EXTERNAL GLOBUS PALLIDUS NEURONS IN DOPAMINE DEPLETED MICE</td>
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<td>ASTROCYTES IN GLOBUS PALLIDUS EXTerna INtegrate SENSORY INFORMATION THROUGH DOPAMINE D2 RECEPTORS.</td>
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<td>CONTRIBUTION OF GLUTAMATERGIC PPN NEURONS TO MOTOR CONTROL</td>
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<td>MOVEMENT COORDINATION VIA A CORTICO-PONTO-THALAMIC LOOP</td>
<td>Emília Bősz (Hungary)</td>
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<td>THE ROLE OF GPI-LHB SOMATOSTATIN-EXPRESSING NEURONS IN MOTOR ACTIONS AND MOTIVATION</td>
<td>Alessandro Contestabile (Sweden)</td>
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<td>SMALL EXTRACELLULAR VESICLE-BRAIN ENDOTHELIAL CELL INTERACTOMES IDENTIFIED BY PROXIMITY-DEPENDENT BIOTINYLLATION AT THE BRAIN BARRIER IN VITRO</td>
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<td>ESTABLISHMENT OF AN IN VITRO PATIENT-DERIVED HIPSC-BASED BRAIN BARRIER MODEL OF SYNGAP1 DISORDER</td>
<td>Nikoletta Kardos-Török (Austria)</td>
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<td>TO PAVE THE SILK ROAD: A FUNCTIONALIZED MICROVASCULATURE NETWORK FOR THE BLOOD-BRAIN INTERFACE.</td>
<td>Ciro De Luca (Italy)</td>
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<td>DEVELOPMENT OF AN ORGAN-ON-CHIP PLATFORM FOR THE Co-Culture OF MOUSE ORGANOtYPIC BRAIN SLICES WITH</td>
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ENDOTHELIAL CELLS

Speaker: Tando Maduna (Germany)

PS07-29AM-317 IL-4-INDUCED MICROGLIA-DERIVED SMALL EXTRACELLULAR VESICLES EXHIBIT CYTOPROTECTIVE EFFECTS AGAINST LPS-INDUCED MICROGLIAL DAMAGE THROUGH MIR-191-5P

Speaker: Aysen Cotuk (Turkey)

PS07-29AM-318 ASSESSMENT OF NEURORESTORATIVE PROPERTIES OF INTRANASALLY ADMINISTERED COLOSTRUM-DERIVED EXOSOMES IN THE PERIVENTRICULAR LEUKOMALACIA MODEL

Speaker: Serife Beyza Türe (Turkey)

PS07-29AM-319 CHARACTERIZING NERVE- DERIVED EXTRACELLULAR VESICLES: POTENTIALS AND PITFALLS

Speaker: Rachele Rossi (Denmark)

PS07-29AM-320 SATELLITE GLIAL CELL HETEROGENEITY

Speaker: Ole Ahlgreen (Denmark)

PS07-29AM-321 EXTRACELLULAR VESICLES: AN EXPLORATION INTO THE BI-DIRECTIONAL CROSSTALK OF ENDOTHELIAL CELLS AND ASTROCYTES AT THE BLOOD BRAIN BARRIER

Speaker: Natalija Aleksejenko (Ireland)

PS07-29AM-322 EXTRACELLULAR VESICLES FROM MSCS REVERSE NEUROINFLAMMATION IN CEREBELLUM AND RESTORE MOTOR COORDINATION IN HYPERAMMONEMIC RATS

Speaker: Paula Izquierdo-Altarejos (Spain)

PS07-29AM-323 PLASMA EXTRACELLULAR VESICLES FROM HYPERAMMONEMIA RATS INDUCE NEUROINFLAMMATION IN THE HIPPOCAMPUS AND COGNITIVE IMPAIRMENT IN CONTROL RATS.

Speaker: Maria Pedrosa Sanchez (Spain)

PS07-29AM-324 CHARACTERIZATION OF EXOSOMES ISOLATED FROM GLIOBLASTOMA (U-87) CELLS AND THEIR USE AS PROPHYLACTIC IN ALZHEIMER’S DISEASE

Speaker: Büşra Yılmaz (Turkey)

PS07-29AM-325 DO NEUROTRANSMITTERS REGULATE ASTROCYTE-DERIVED EXTRACELLULAR VESICLE SECRETION AND MIRNA CONTENT?

Speaker: Rebecca Hekking (France)

PS07-29AM-326 EXTRACELLULAR VESICLES FROM MESENCHYMA L STEM CELLS ALTER GUT MICROBIOTA AND IMPROVE NEUROINFLAMMATION AND MOTOR IMPAIRMENT IN RATS WITH MILD LIVER DAMAGE

Speaker: Gergana Mincheva (Spain)

PS07-29AM-327 THE EVOLUTIONARILY CONSERVED CHOROID PLEXUS MAINTAINS THE HOMEOSTASIS OF BRAIN VENTRICLES IN ZEBRAFISH

Speaker: Inyoung Jeong (Jung) (Norway)

PS07-29AM-328 POST-TRANSCRIPTIONAL REGULATION OF NEURODEVELOPMENT MEDIATED BY EXTRACELLULAR VESICLES

Speaker: Barbara Oliveira (Austria)

PS07-29AM-329 AGING OF THE BLOOD-BRAIN BARRIER: METABOLIC PROFILING OF MOUSE BRAIN ENDOTHELIAL CELL SENESCENCE

Speaker: Hari Baskar Balasubramanian (Austria)

PS07-29AM-330 THE JANUS FACES OF NANO PARTICLES AT THE NEUROVASCULAR UNIT: A DOUBLE EDGE SWORD IN NEURODEGENERATION
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### Scientific Programme

#### Poster Sessions

**Poster Session 07 - Section 153**

- **PS07-29AM-366**
  - **Disruption of Treadmill Running by Harmaline and Cannabinoid Agonist in Marker-Based 3D Motion Capture of Mice**
  - **Speaker:** Bogna Ignatowska-Jankowska (Japan)

- **PS07-29AM-367**
  - **Disruption of Climbing Behavior by Harmaline in Marker-Based 3D Motion Capture of Freely Moving Mice**
  - **Speaker:** Tara Turkki (Japan)

- **PS07-29AM-368**
  - **Spinal Circuits for Kinematic Adaptation**
  - **Speaker:** Ines Klein (Germany)

- **PS07-29AM-369**
  - **Kinematics Analysis of Recovered Forelimb Function by Forced Limb Use After Hemorrhagic Stroke in Rats**
  - **Speaker:** Hideki Hida (Japan)

- **PS07-29AM-370**
  - **Role of Uncertainty about Grasp Type in Sensorimotor Integration During Dexterous Object Manipulation**
  - **Speaker:** Swarnab Dutta (India)

- **PS07-29AM-371**
  - **State-Induced Adaptation of Self-Guided Behavioral Sequences**
  - **Speaker:** Felix Kohle (Germany)

- **PS07-29AM-372**
  - **Flexible Strategies for the Pursuit of Moving Objects**
  - **Speaker:** Marcelo Moglie (United Kingdom)

- **PS07-29AM-373**
  - **Hindlimb Muscle Synergies During Split-Belt locomotion in the Cat: Implications for CPG Pattern Formation Organization**
  - **Speaker:** Boris Prilutsky (United States)

- **PS07-29AM-374**
  - **Modulation of Brain Commands and Spinal Pathways in Human Upper Limb Control in Various Gravity Conditions; Insights from Neuromusculoskeletal Simulation**
  - **Speaker:** Alice Bruel (Switzerland)

- **PS07-29AM-375**
  - **The Role of Afferent Feedback in Adaptive Interlimb Coordination in Cat Locomotion**
  - **Speaker:** Yuichi Ambe (Japan)

- **PS07-29AM-376**
  - **Dynamic Mechanism of Adaptive Interlimb Coordination in Cat Locomotion**
  - **Speaker:** Kota Shinohara (Japan)

**Poster Sessions**

**09:30 - 13:00**

**Posters**

- **PS07-29AM-586**
  - **ShareBrain: An Interactive, Integrative, and Modular Approach to Standardise Advanced Functional Neurophysiology Data and Metadata for Sharing and Reuse Via the Ebrains Research Infrastructure**
  - **Speaker:** Eivind Hennestad (Norway)

- **PS07-29AM-587**
  - **Empowering Collaborative Neuroscience: Optimizing Fair Data Sharing with a Tailored Open-Source Repository for CRC 1280 “Extinction Learning”**
  - **Speaker:** Tobias Otto (Germany)

- **PS07-29AM-588**
  - **Integrating Project Management Principles for Efficient Neuroscience Research**
  - **Speaker:** Pranav Joshi (Germany)
PS07-29AM-589 - INTEGRATION OF OPEN-SOURCE SOLUTIONS FOR COMPREHENSIVE DATA AND METADATA MANAGEMENT IN A MULTI-LAB COLLABORATION

Speaker: Reema Gupta (Germany)

PS07-29AM-590 - A COMPREHENSIVE SOFTWARE SUITE FOR DATA STANDARDIZATION AND ARCHIVING.

Speaker: Alessandra Trapani (United States)

PS07-29AM-591 - A LABELED CLINICAL-MRI DATASET OF NIGERIAN BRAINS.

Speaker: Eberechi Wogu (Nigeria)

PS07-29AM-592 - INTRODUCING PSY-SHARED (PSYCHOSIS MRI SHARED DATA RESOURCE): A NEW GLOBAL MRI REPOSITORY FOR ALL PSYCHOSIS RESEARCHERS

Speaker: Simon Evans (United Kingdom)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 35

PS07-29AM-458 - PREFRONTAL ELECTROENCEPHALOGRAM THETA ACTIVITIES INDICATE MEMORY AND EXECUTIVE FUNCTION PERFORMANCE

Speaker: Nastaran Hamedi (Poland)

PS07-29AM-459 - HUMAN LOCAL FIELD POTENTIAL BRAIN RECORDINGS DURING A MULTILINGUAL BATTERY OF COGNITIVE AND EYE-TRACKING TASK PERFORMANCE

Speaker: Michal Kucewicz (Poland)

PS07-29AM-460 - PERFORMANCE IN SIMPLE EYE-TRACKING TASKS INDICATES VERBAL MEMORY IMPAIRMENTS IN EPILEPSY

Speaker: Maria Renke (Poland)

PS07-29AM-461 - MODULATION OF BRAIN ACTIVITY BY ENVIRONMENTAL DESIGN: A STUDY USING EEG AND VIRTUAL REALITY

Speaker: Jesus S. Garcia Salinas (Poland)

PS07-29AM-462 - WEB-BASED SPEECH TRANSCRIPTION TOOL FOR EFFICIENT QUANTIFICATION OF MEMORY PERFORMANCE

Speaker: Marina Galanina (Poland)

PS07-29AM-463 - FREE MEMORY RECALL IS PRECEDED BY GLOBAL CORTICAL NETWORK OF COINCIDENT RIPPLE BURSTING

Speaker: Sathwik Prathapagiri (Poland)

PS07-29AM-464 - ELECTROPHYSIOLOGICAL INVESTIGATIONS OF SET-SHIFTING IN OLDER HUMAN ADULTS.

Speaker: Margarita Darna (Germany)

PS07-29AM-465 - COGNITIVE FLEXIBILITY AND ANTERIOR CINGULATE GRAY MATTER VOLUMES CORRELATE WITH SERUM LEVELS OF BREVICAN IN HEALTHY HUMANS

Speaker: Anni Richter (Germany)

PS07-29AM-466 - TEMPORAL DYNAMICS OF NEURAL ACTIVITY AND CONNECTIVITY PATTERNS IN EXECUTIVE FUNCTION TRAINING

Speaker: Ivana Hromatko (Croatia)

PS07-29AM-467 - NEUROPHYSIOLOGICAL MARKERS AND COGNITIVE PREDICTORS OF EXECUTIVE FUNCTION TRAINING GAINS IN MIDDLE-AGED ADULTS

Speaker: Luka Juras (Croatia)

PS07-29AM-468 - A SHARED NEURAL MECHANISM UNDERLYING DEFICITS IN
SELECTIVE VISUAL ATTENTION ACROSS MILD COGNITIVE IMPAIRMENT SUBTYPES
Speaker: Kitnipat Boonyadhammakul (Thailand)

PS07-29AM-469 COGNITIVE CORRELATES OF NUMERICAL ABILITIES IN AGING. Speaker: Jakub Słupczewski (Poland)

PS07-29AM-470 AGE-RELATED HEARING LOSS IN OLDER ADULTS AND COGNITION IN OLDER ADULTS: PRELIMINARY FINDINGS Speaker: Yi Ran Wang (Canada)

PS07-29AM-471 CROSS-CULTURAL COGNITION: WORKING MEMORY IN SOUTH AFRICAN YOUNG ADULTS Speaker: Kate Cockcroft (South Africa)

PS07-29AM-472 REDUCED ROUTING EFFICIENCY IN THE RIGHT FRONTO-PARIETAL ATTENTIONAL NETWORK DURING DISTRACTOR SUPPRESSION IN MILD COGNITIVE IMPAIRMENT Speaker: Jatupong Oboun (Thailand)

PS07-29AM-473 EFFECTS OF SUSTAINED COGNITIVE LOAD ON BEHAVIOR AND EVENT-RELATED POTENTIALS IN PERCEPTUAL DECISION-MAKING Speaker: Fabio Taddeini (Italy)

PS07-29AM-474 EVIDENCE FOR A ROLE FOR ALPHA OSCILLATIONS IN STRATEGIC MONITORING UNDERLYING PROSPECTIVE REMEMBERING Speaker: Bruno de Matos Mansur (Germany)

PS07-29AM-475 RECOGNITION OF COMPLEX SPATIAL ENVIRONMENTS SHOWED DIMORPHIC PATTERNS OF THETA (4-8 HZ) ACTIVITY Speaker: Joaquin Castillo Escamilla (Spain)

PS07-29AM-476 VALIDATING A DATA DRIVEN EEG-BASED DEMENTIA SCREENING TEST Speaker: Filip Agatic (Malta)

PS07-29AM-477 TEMPORAL LOBE INTERHEMISPHERIC COHERENCE IN ALZHEIMER’S DISEASE USING EEG CONNECTIVITY ANALYSIS Speaker: Ana Cervera-Ferri (Spain)

PS07-29AM-478 AGE-RELATED DIFFERENCES IN OSCILLATORY BRAIN RESPONSES DURING THE SUSTAINED ATTENTION TO RESPONSE TASK (SART) Speaker: Zehra Ülgen (Turkey)

PS07-29AM-479 META-ANALYSES OF BRAIN STRUCTURAL AND RESTING STATE FUNCTIONAL ALTERATIONS IN SUBJECTIVE COGNITIVE DECLINE Speaker: Adina Mincic (Romania)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 94

PS07-29AM-043 IMPACT OF AVERSIVE EXPERIENCES ON THE RETICULAR THALAMIC NUCLEUS OF MICE Speaker: Héctor Carceller (Spain)

PS07-29AM-044 HIPPOCAMPAL NEUROGENESIS CHANGES IN A SEX AND REGION-SPECIFIC MANNER IN ADULT MICE SUBJECTED TO MATERNAL SEPARATION AS AN EARLY LIFE STRESS Speaker: Jose Munoz-Martin (Spain)
PS07-29AM-045  SEXUAL DIFFERENCES IN DEPRESSIVE-LIKE BEHAVIOURS AFTER JUVENILE AND ADULT STRESS
Speaker: Víctor Martín (Spain)

PS07-29AM-046  FEMALE MICROGLIA AND NEUROGENESIS RESPOND DIFFERENTLY TO SOCIAL DEFEAT STRESS COMPARED TO MALES
Speaker: Maria Inmaculada Infantes-López (Spain)

PS07-29AM-047  WHOLE-BRAIN ANALYSIS OF DEVELOPMENTAL STRESS OUTCOMES IN THE ADULT OFFSPRING
Speaker: Beatrice Dal Bianco (Italy)

PS07-29AM-048  EARLY LIFE STRESS & THE DEVELOPMENTAL DYNAMICS OF HYPOTHALAMIC NEUROGENESIS
Speaker: Helen Eachus (United Kingdom)

PS07-29AM-049  METHYLDONOR SUPPLEMENTATION PROTECTS AGAINST EARLY-LIFE STRESS INDUCED EMOTIONAL DYSREGULATION VIA MODULATION OF HYPOTHALAMIC DNA METHYLATION
Speaker: Natalia Schilder (Netherlands)

PS07-29AM-050  SPARSE STRESS ENSEMBLES PREDOMINATE THE PATHOGENESIS OF DEPRESSION-LIKE STATE
Speaker: Zhiwei Zheng (China)

PS07-29AM-051  CENTRAL ROLE OF THE HABENULO-INTERPEDUNCULAR SYSTEM IN THE NEURODEVELOPMENTAL BASIS OF SUSCEPTIBILITY AND RESILIENCE TO ANXIETY
Speaker: Fabien D'Autréaux (France)

PS07-29AM-052  THE ANALYSES OF NEURAL BASIS FOR INDIVIDUAL DIFFERENCES IN BEHAVIORAL OUTCOMES CAUSED BY LONG-TERM SOCIAL DEFEAT STRESS IN MICE
Speaker: Hibiki Okamura (Japan)

PS07-29AM-053  SEX-SPECIFIC BEHAVIORAL CONSEQUENCES OF EARLY LIFE SEIZURES INDUCED BY FLUROTHYL
Speaker: Andrea Grígelová (Czech Republic)

PS07-29AM-054  HYPOTHALAMIC GENE EXPRESSION FOLLOWING EARLY LIFE AND ACUTE STRESS EXPOSURE IN ADULTHOOD: FOCUS ON SEX DIFFERENCES
Speaker: Michael Vencer Malaluan (Philippines)

PS07-29AM-055  TEMPORAL EVOLUTION OF TRAUMATIC MEMORY ENGRAMS IN A MOUSE MODEL OF EARLY-LIFE STRESS
Speaker: Maelle Certon (France)

PS07-29AM-056  CIRCUIT MECHANISMS UNDERLYING THE SEXUAL DIMORPHIC EFFECTS OF RESTRAINT STRESS ON PREFRONTAL CORTICAL NEURONAL PROPERTIES.
Speaker: Angeliki Velli (Greece)

PS07-29AM-057  EARLY LIFE STRESS AND ADVERSITIES IN ADULTHOOD: THE EFFECTS OF CUMULATIVE STRESS ON MEMORY
Speaker: Joelma Alves Lucio (Brazil)

PS07-29AM-058  DECODING THE DEVELOPMENTAL VULNERABILITY TO PSYCHIATRIC DISORDERS: INVESTIGATING THE SEXUAL DIMORPHISM AND ROLE OF PERINEURONAL NETS IN HABENULO-INTERPEDUNCULAR-SYSTEM-MEDIATED SUSCEPTIBILITY TO ANXIETY
Speaker: Niels Fjerdingstad (France)

PS07-29AM-059  IMPACT OF EARLY LIFE STRESS ON THE MICROCIRCUITS OF VENTRAL HIPPOCAMPUS AND POTENTIAL TARGETS FOR
PHENOTYPE RESCUE
Speaker: Vasilii Shteinikov (Finland)

PS07-29AM-060 CRITICAL FEAR: DEVELOPMENTAL TRAJECTORIES OF TRAUMATIC LIFE EXPERIENCES DURING SPECIFIC SENSITIVE PERIODS
Speaker: Greta Visintin (Italy)

PS07-29AM-061 ACTIVATION OF SOMATOSTATIN INTERNEURONS IN THE MEDIAL AMYGDALA REVERSES LONG-TERM AGGRESSIVE BEHAVIOR ASSOCIATED WITH EARLY-LIFE STRESS IN MALE MICE
Speaker: Aroa Mañas-Ojeda (Spain)

PS07-29AM-062 IMPACT OF EARLY LIFE STRESS ON ADULT BEHAVIOR: INSIGHTS FROM MOUSE MODEL
Speaker: Malvika Sharma (United Arab Emirates)

PS07-29AM-063 EFFECTS OF EARLY LIFE STRESS ON MOUSE SLEEP ARCHITECTURE AND SPINDLE ACTIVITY
Speaker: Mohsin Mohammed (United Arab Emirates)

PS07-29AM-064 STRESS SUSCEPTIBILITY-DEPENDENT SYNAPTIC PLASTICITY ONTO ANTERIOR CINGULATE CORTEX
Speaker: Sabahaddin Taha Solakoglu (Turkey)

PS07-29AM-065 PUBERTAL IMMUNE CHALLENGE DIFFERENTIALLY MODULATES LPS-INDUCED MOLECULAR AND BEHAVIOURAL SEQUELAE IN ADULT MALE AND FEMALE MICE
Speaker: Cristina Benatti (Italy)

PS07-29AM-066 DECRYPTING THE ROLE OF NEURONAL INTERLEUKIN-1 RECEPTOR IN EARLY LIFE STRESS-INDUCED SOCIAL BEHAVIOR DEFICITS
Speaker: Marianne Charlene Monet (United States)

PS07-29AM-067 BRAIN-WIDE SCALE NEURONAL ACTIVATION OF BEHAVIORAL OUTCOMES FOLLOWING LEARNED HELPLESSNESS AND ACUTE SOCIAL DEFEAT STRESS IN MICE.
Speaker: Alessia Manganaro (United States)

PS07-29AM-068 EARLY LIFE STRESS AND LIVING IN A COMPLEX ENVIRONMENT: EFFECTS ON SOCIAL HIERARCHY AND STRESS COPING IN MICE
Speaker: Lisa Bouwman (Netherlands)

PS07-29AM-069 THE ROLE OF A5-NICOTINIC RECEPTORS ON THE EFFECTS OF EARLY LIFE STRESS IN MOUSE BEHAVIOUR
Speaker: Maria Anna Zafeiraki (Greece)

PS07-29AM-070 SEX-SPECIFIC AND EPGENETICALLY MEDIATED CHANGES OF CB1R EXPRESSION IN THE MEDIAL PREFRONTAL CORTEX IN RESPONSE TO EARLY LIFE STRESS
Speaker: Jörg Bock (Germany)

PS07-29AM-071 EFFECT OF REPEATED EARLY MATERNAL SEPARATION ON ANXIETY IN RATS DURING THE JUVENILE TRANSITION PERIOD
Speaker: Miroljub Popovic (Spain)

PS07-29AM-072 DIFFERENTIAL EFFECTS OF MATERNAL IMMUNE ACTIVATION ON HIPPOCAMPAL DNA METHYLATION AND BEHAVIOR IN STRESS-RESILIENT AND STRESS-SUSCEPTIBLE MICE
Speaker: Elad Lax (Israel)
Poster Session 07 - Section 174

**PS07-29AM-001**
ANATOMO-FUNCTIONAL CHARACTERIZATION OF THE TAIL OF THE VENTRAL TEGMENTAL AREA (TVTA/RMTG) IN MICE

*Speaker:* Benjamin Muller (France)

**PS07-29AM-002**
CORTICAL CHANGES IN PERINEURONAL NETS AND PARVALBUMIN INTERNEURONS IN CHRONIC PAIN-INDUCED MOOD DISORDERS.

*Speaker:* Marilou Lentschat (France)

**PS07-29AM-003**
A MIDBRAIN-EXTENDED AMYGDALA PATHWAY CONTROLS CONTEXTUAL FEAR MEMORY

*Speaker:* Kinga Müller (Hungary)

**PS07-29AM-004**
VIP-EXPRESSING MIDBRAIN PATHWAY CONTROLS POTENTIATION OF HIPPOCAMPAL INPUTS TO THE CENTRAL AMYGDALA DURING CONTEXTUAL FEAR LEARNING

*Speaker:* Maria Rita Karlocai (United States)

**PS07-29AM-005**
NOXIOUS STIMULUS-RESPONSIVE NEURONS IN THE VENTRAL PERIAQUEDUCTAL GRAY AND DORSAL RAPHE NUCLEUS

*Speaker:* Péter Földi (Hungary)

**PS07-29AM-006**
DISSECTING THE EFFECTS OF DISTINCT VTA PROJECTIONS ON PERIPHERAL IMMUNITY

*Speaker:* Itay Zalayat (Israel)

**PS07-29AM-007**
PSYCHOLOGICAL STRESS REGULATION OF ACUTE-PHASE PROTEINS THROUGH THE HEPATIC SYMPATHETIC INNERVATION

*Speaker:* Eden Avishai (Israel)

**PS07-29AM-008**
MAPPING NEURONAL ENSEMBLE OF PERIPHERAL IMMUNE RESPONSES

*Speaker:* Megan Sammons (Israel)

**PS07-29AM-009**
NEUROCHEMICAL PHENOTYPING OF THE VENTRAL MIDBRAIN-TO-ZONA INCERTA CONNECTION

*Speaker:* FU-YUN HSIAO (Taiwan)

**PS07-29AM-010**
INHIBITORY TOP-DOWN PROJECTIONS FROM ZONA INCERTA MEDIATE NEOCORTICAL MEMORY

*Speaker:* Anna Schroeder (Germany)

**PS07-29AM-011**
WORRY NOT, THE VTA HAS THE BNST UNDER CONTROL... OR DOES IT?

*Speaker:* Joana Ribeiro (France)

**PS07-29AM-012**
THE PARABRACHIAL NUCLEUS RECRUITS VENTRAL TEGMENTAL AREA TO CONVEY NEGATIVE EMOTIONS AND DISENGAGE INSTRUMENTAL FOOD SEEKING

*Speaker:* Syun-Ruei Lee (Taiwan)

**PS07-29AM-013**
THE DIVERSITY OF TANCYTES: BRAIN-WIDE CONNECTIVITY ANALYSIS FROM NEURONS TO TANCYTES.

*Speaker:* Vanessa Neve (Germany)

**PS07-29AM-014**
DISTINCT CHANNELS OF THE VENTRAL STRIATOPALLIDAL CIRCUITRY

*Speaker:* Si Yin Lui (Australia)

**PS07-29AM-015**
NIGROINCERTAL ACTIVATION ENGAGES LATERAL HABENULA AND PERIAQUEDUCTAL GRAY
Speaker: Shi-Hong Chiu (Taiwan)
PS07-29AM-016 ROLE OF ZONA INCERTA NEURONS IN THE INTEGRATION OF FEEDING AND FEAR

Speaker: Harish Ananthakrishnan Iyer (Austria)
PS07-29AM-017 ROLES OF THE CENTRAL AMYGDALA TO VENTRAL TEGMENTAL AREA PROJECTIONS IN FEAR REGULATION AND THE MECHANISM STUDY

Speaker: Chun-Yue Li (China)

Poster Sessions
09:30 - 13:00
Poster Session 07 - Section 123

Poster: Zsuzsanna Fekete (Hungary)
PS07-29AM-272 MORPHOLOGICAL AND PHYSIOLOGICAL FEATURES OF CHANDELIER CELLS IN THE PREFRONTAL CORTEX IN TWO TRANSGENIC MOUSE LINES

Poster: Judit Veres (Hungary)
PS07-29AM-273 DENSITY OF CB1 EXPRESSING GABAERGIC AXON TERMINALS IS INCREASED IN THE VALPROATE MODEL OF AUTISM IN MALE MICE

Poster: Zsófia Reéb (Hungary)
PS07-29AM-274 DIVERSITY AND CONNECTIVITY OF PRINCIPAL NEURONS IN THE LATERAL AND BASAL NUCLEI OF THE MOUSE AMYGDALA

Poster: Maximilian Achilles (Austria)
PS07-29AM-275 EXPLORING AXON-CARRYING DENDRITE DIVERSITY IN MOUSE AND HUMAN HIPPOCAMPAL INTERNEURONS

Poster: Christian Thome (Austria)
PS07-29AM-276 EXPLORING THE VARIABILITY AND FUNCTIONAL IMPLICATIONS OF AXON INITIAL SEGMENT MORPHOLOGY IN HIPPOCAMPAL NEURONS

Poster: Aline Pannier (Germany)
PS07-29AM-277 INTERHEMISPHERIC SYNAPTIC INPUTS TO NEOCORTICAL PYRAMIDAL CELLS WITH DENDRITIC VERSUS SOMATIC AXON ORIGIN

Poster: Livia Klostermann (Germany)
PS07-29AM-278 NETWORK INTEGRATION OF NEURONS WITH DIFFERENT (SOMATIC VS. DENDRITIC) AXON ORIGIN: A COMPUTATIONAL MODELLING APPROACH

Poster: Eleanor Paul (United Kingdom)
PS07-29AM-279 REGION-SPECIFIC INTERNEURON CYTOARCHITECTURE OF THE MOUSE CEREBRAL CORTEX

Poster: Yongchun Yu (China)
PS07-29AM-280 SYNAPTIC ARRANGEMENT OF THE CA3 RECURRENT CIRCUIT IN THE HUMAN HIPPOCAMPUS

Poster: Jake Watson (Austria)
PS07-29AM-281 THREE-DIMENSIONAL STRUCTURAL ANALYSIS OF GABAERGIC NEURONS IN THE MOUSE CLAUSRUM USING TISSUE-CLEARING TECHNOLOGY

Poster: Hiroyuki Hioki (Japan)
PS07-29AM-283  PATTERNS OF MUTUAL EXCITATION AND INHIBITION BETWEEN CLASSES OF INHIBITORY NEURONS IN THE PRIMARY OLFACTORY CORTEX
Speaker: Muqin Zhang (Australia)

PS07-29AM-284  SUBLAYER-SPECIFIC NOVEL NEURONAL CELL TYPE IN LAYER 2/3 OF THE PREFRONTAL CORTEX
Speaker: Kisho Obi-Nagata (Japan)

PS07-29AM-285  SHAPING NEOCORTICAL NETWORKS VIA MATURATION OF SYNAPTIC FUNCTIONS IN VIP-POSITIVE GABAERGIC INTERNEURONS
Speaker: Clara Simacek (Germany)

PS07-29AM-286  THE CONNECTIVITY AND FUNCTION OF CHRNA2 MARTINOTTI CELLS IN THE CEREBRAL CORTEX
Speaker: Anna Velica (Sweden)

PS07-29AM-287  GAMMA FREQUENCY SYNCHRONIZATION OF NNOS INTERNEURONS PROVIDES LONG-LASTING INHIBITION OF DENTATE GRANULE CELLS
Speaker: Jose Carlos Gonzalez (United States)

PS07-29AM-288  HIPPOCAMPAL CAJAL-RETTIUS CELLS RECEIVE INPUTS FROM SEVERAL EXTRAHIPPOCAMPAL AREAS
Speaker: Kristian Moan (Norway)

PS07-29AM-289  FUNCTIONAL UPREGULATION OF KCC2 IN CORTICAL INTERNEURONS PRECEDES THAT IN GLUTAMATERGIC PRINCIPAL NEURONS
Speaker: Rakenduvadhana Srinivasan (Finland)

PS07-29AM-290  BIOLOGICALLY PLAUSIBLE INTERNEURON RECURRENCE DOES NOT SUPPORT SYNCHRONY IN A DENTATE GYRUS MODEL
Speaker: Daniel Müller-Komorowska (Japan)

PS07-29AM-291  INTERNEURON NONLINEAR DENDRITES REGULATE THETA-NESTED GAMMA OSCILLATIONS IN HIPPOCAMPAL NETWORKS.
Speaker: Alexandra Tzilivaki (Germany)

PS07-29AM-292  NANOMETER-SCALE DENDRITIC SHAFT CONSTRUCTIONS SHAPE DENDRITIC INTEGRATION AND PLASTICITY
Speaker: Tony Kelly (Germany)

PS07-29AM-293  FIRING PROPERTIES OF THE MOUSE HIPPOCAMPAL PYRAMIDAL CA1 NEURONS DURING THE POSTNATAL DEVELOPMENT
Speaker: Igor Nagula (Lithuania)

PS07-29AM-294  CHARACTERIZING THE FASCIOLA CINEREA: AN ANATOMICAL AND PHYSIOLOGICAL INVESTIGATION IN THE MOUSE HIPPOCAMPUS
Speaker: Ioannis Zouridis (Germany)

PS07-29AM-295  HIGH-RESOLUTION SINGLE-CELL RNA-SEQUENCING ATLAS FOR MOUSE CORTICAL INHIBITORY NEURONS DURING DEVELOPMENTAL
Speaker: Lynette Lim (Belgium)

PS07-29AM-296  PLASTICITY OF INHIBITORY TRANSMISSION FROM L1 INTERNEURONS OF THE MOUSE VISUAL CORTEX
Speaker: Adrianna Nozownik (France)

PS07-29AM-297  SYNAPTIC AND DENDRITIC ARCHITECTURE OF DIFFERENT TYPES OF HIPPOCAMPAL SOMATOSTATIN INTERNEURONS
Speaker: Áron Orosz (Hungary)
PS07-29AM-298 INTEGRATIVE PROPERTIES OF BURSTING VS. REGULAR FIRING SUBICULUM NEURONS INVESTIGATED VIA DYNAMIC CLAMP
Speaker: Melinda Gazdik (Hungary)

PS07-29AM-299 THREE-DIMENSIONAL ORGANIZATION OF CONNEXIN CLUSTERS ALONG AXONAL CISTERNAL ORGANELLE NETWORKS IN HUMAN PYRAMIDAL NEURONS
Speaker: Jan Maximilian Janssen (Austria)

PS07-29AM-300 CONTROL OF CORTICAL CIRCUITS BY LAYER 1 NDNF INTERNEURONS
Speaker: Jan Hartung (Germany)

Poster Sessions
09:30 - 13:00

Poster Session 07 - Section 119
PS07-29AM-095 CONTROLLING MORPHO-ELECTROPHYSIOLOGICAL VARIABILITY OF NEURONS WITH DETAILED BIOPHYSICAL MODELS
Speaker: Alexis Arnaudon (Switzerland)

PS07-29AM-096 CONDUCTING VIRTUAL NEURONAL EXPERIMENTS WITH BLUE BRAIN CELLULAR LABORATORY (BLUECELLULAB)
Speaker: Anıl Tuncel (Switzerland)

PS07-29AM-097 COMPUTATIONAL SYNTHESIS OF LONG-RANGE AXONS
Speaker: Rémy Petkantchin (Switzerland)

PS07-29AM-098 A NOVEL TECHNIQUE FOR DRAMATICALLY REDUCING COMPUTATIONAL BURDEN IN ELECTROPHYSIOLOGICAL AXON SIMULATIONS
Speaker: Taylor Newton (Switzerland)

PS07-29AM-099 HYPATIA HEALTH: A NEW OPEN-SOURCE, ONLINE PLATFORM FOR COMPUTATIONAL SIMULATION AND FITTING
Speaker: Joseph Barnby (United Kingdom)

PS07-29AM-100 TOWARDS A GENERAL BRAIN THEORY: HOW DOES THE PHYSICALLY ACTIVE NEURONAL NETWORK “PARADOXICALLY” PROCESS INFORMATION IN BIOLOGICALLY OR SocialLY APPROPRIATE WAY?
Speaker: Oleg Soloviov (Ukraine)

PS07-29AM-101 LOCAL FIELD POTENTIAL SIMULATION ACROSS A V1 CORTICAL MODEL
Speaker: Rares Andrei Dorcioman (Netherlands)

PS07-29AM-102 ADVANCED METAMODELLING ON THE O2S2PARC COMPUTATIONAL NEUROSCIENCES PLATFORM FACILITATES STIMULATION SELECTIVITY AND POWER EFFICIENCY OPTIMIZATION AND INTELLIGENT CONTROL
Speaker: Werner Van Geit (Switzerland)

PS07-29AM-103 EXPERIMENTAL MODEL FOR STRAIN-INDUCED MECHANICAL NEUROSTIMULATION ON HUMAN PROGENITOR NEURONS
Speaker: Erdost Yildiz (Germany)

PS07-29AM-104 AN ELECTRODIFFUSIVE NETWORK MODEL WITH MULTICOMPARTMENTAL NEURONS AND SYNAPTIC CONNECTIONS
Speaker: Marte Julie Sætra (Norway)

PS07-29AM-105 NEUROMODULATION IN THE VIRTUAL BRAIN: INTRODUCING DOPAMINE DYNAMICS
Speaker: Damien Depannemaeker (France)
PS07-29AM-106  BAYESIAN INFERENCE ON VIRTUAL BRAIN MODELS OF DISORDERS
Speaker: Meysam Hashemi (France)

PS07-29AM-107  NOVEL INTERDISCIPLINARY INTERVENTION APPROACH: NURTURING NEUROPLASTICITY THROUGH SPONTANEOUS UNFOLDING MOVEMENTS
Speaker: Erika Chovanec (Austria)

PS07-29AM-108  ESTIMATION OF NEURONAL BIOPHYSICAL PARAMETERS IN THE PRESENCE OF EXPERIMENTAL NOISE USING COMPUTER SIMULATIONS AND PROBABILISTIC INFERENCE METHODS
Speaker: Szabolcs Káli (Hungary)

Scientific Symposia (S)
09:45 - 11:15

S49 - Behavioural and Neural Principles of Time Perception
Chair: Georgios Michalareas (Max Planck Institute for Empirical Aesthetics, Department of Cognitive Neuropsychology, Germany)

Introduction 09:45 - 09:47
Timing via mental navigation in entorhinal cortex 09:47 - 10:05
Speaker: Mehrdad Jazayeri (MIT, United States)

Q&A 10:05 - 10:09

Multiplexing Working Memory and Time 10:09 - 10:27
Speaker: Dean Buonomano (University of California Los Angeles (UCLA), United States)

Q&A 10:27 - 10:31

When Time and Emotion meet: Human and animal perspectives 10:31 - 10:49
Speaker: Valérie Doyére (CNRS, France)

Q&A 10:49 - 10:53

Probability Computation in Temporal Prediction 10:53 - 11:11
Speaker: Matthias Grabenhorst (Ernst Strüngmann Institute (ESI) for Neuroscience in Cooperation with Max Planck Society, Germany)

Q&A 11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S50 - Dissecting the Network: From Circuit Development to Epilepsy Control
Chair: Jeanne Paz (Gladstone Institutes and UCSF, United States)
Chair: Magor Lőrincz (University of Szeged, Hungary)

Introduction 09:45 - 09:47

Non-invasive control and behavioral monitoring in epilepsy 09:47 - 10:05
Speaker: Ivan Soltesz (Stanford University, United States)

Q&A 10:05 - 10:09

Development of hippocampal assemblies 10:09 - 10:27
Speaker: Rosa Cossart (Institute of Mediterranean Neurobiology, INSERM, Aix-Marseille University, France)

Q&A 10:27 - 10:31

Astroglial connexins differentially drive chronic seizures in mice and humans 10:31 - 10:49
Scientific programme

Speaker: Nathalie Rouach (College de France, France)

Q&A

Heterogenous thalamocortical motifs determining paroxysmal events

10:49 - 10:53

10:53 - 11:11

Speaker: Magor Lőrincz (University of Szeged, Hungary)

Q&A

11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

C

S51 - Neurodevelopmental trajectories in psychiatric disorders
Chair: Konstantin Khodosevich (University of Copenhagen, Denmark)
Chair: Aya Ito-Ishida (RIKEN Center for Brain Science, Japan)

Introduction

09:45 - 09:47

Developmental mechanisms in schizophrenia: integration of single-cell omics and functional analysis

09:47 - 10:05

Speaker: Konstantin Khodosevich (University of Copenhagen, Denmark)

Q&A

10:05 - 10:09

Understanding cortical dynamics that underly neurological impairment in Rett syndrome

10:09 - 10:27

Speaker: Aya Ito-Ishida (RIKEN Center for Brain Science, Japan)

Q&A

10:27 - 10:31

Modeling brain maturation - implications for neurodevelopmental disorders

10:31 - 10:49

Speaker: Carl Sellgren Majkowitz (Karolinska Institutet, Sweden)

Q&A

10:49 - 10:53

Intergenerational effects on early human brain development

10:53 - 11:11

Speaker: Jetro Tuulari (University of Turku, Finland)

Q&A

11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

D

S52 - Human cortical connectivity and cognition using intracranial EEG
Chair: Maxime Baud (Inselspital, Switzerland)
Chair: Randolph Helfrich (University Medical Center Tübingen, Germany)

Introduction

09:45 - 09:47

Interplays between intrinsic brain dynamics and auditory processing in sleep and wake

09:47 - 10:05

Speaker: Athina Tzovara (University of Bern, Switzerland, Switzerland)

Q&A

10:05 - 10:09

The role of the limbic systems in auditory and visual stimuli processing.

10:09 - 10:27

Speaker: Anaïs Llorens (FEMTO-ST Institute, CNRS/Université de Bourgogne Franche-Comté & INSERM 1266, IPNP, Sainte Anne Hospital, Paris, France)

Q&A

10:27 - 10:31

Naturalistic audiovisual speech

10:31 - 10:49
Scientific programme

14th FENS Forum of Neuroscience 25 - 29 June 2024 Vienna, Austria

Speaker: Pierre Mégevand (University of Geneva, Switzerland)

Q&A
10:49 - 10:53

Concept neurons in the human medial temporal lobe
10:53 - 11:11

Speaker: Florian Mormann (University of Bonn, Germany)

Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S53 - Mazed and confused: The neuronal basis for spatial impairments in Alzheimer’s disease
Chair: Silvia Viana da Silva (German Center for Neurodegenerative Diseases (DZNE) - site Berlin, Germany)
Chair: Mark Brandon (Douglas Research Centre, Department of Psychiatry, McGill University, Canada)

Introduction
09:45 - 09:47

Path integration and grid cell impairments in an amyloid mouse model of Alzheimer’s disease
09:47 - 10:05

Speaker: Mark Brandon (Douglas Research Centre, Department of Psychiatry, McGill University, Canada)

Q&A
10:05 - 10:09

Hippocampus contributions to cognitive changes in aging
10:09 - 10:27

Speaker: Carol Barnes (University of Arizona, United States)

Q&A
10:27 - 10:31

Rhythmic coordination of hippocampal place cells in rodent models of Alzheimer’s disease
10:31 - 10:49

Speaker: Laura Colgin (The University of Texas at Austin, United States)

Q&A
10:49 - 10:53

What mechanisms can explain navigational decline in human aging and preclinical Alzheimer’s disease
10:53 - 11:11

Q&A
11:11 - 11:15

Scientific Symposia (S)
09:45 - 11:15

S54 - The dynamics of dopamine release and its actions on target cells
Chair: Tanya Sippy (New York University School of Medicine, United States)

Introduction
09:45 - 09:47

Striatal dopamine release dynamics during flavor-nutrient conditioning
09:47 - 10:05

Speaker: Joaquim Alves da Silva (Champalimaud Foundation, Portugal)

Q&A
10:05 - 10:09

Mapping dopaminergic dynamics during social dominance and defeat
10:09 - 10:27

Speaker: Annegret Falkner (Princeton University, United States)

Q&A
10:27 - 10:31

Intrinsic dopamine and acetylcholine dynamics in the striatum of awake mice
10:31 - 10:49

Speaker: Nicolas Tritsch (New York University Grossman School of Medicine, United States)

Q&A
10:49 - 10:53
Neural mechanisms of multisensory learning 10:53 - 11:11
Speaker: Tanya Sippy (New York University School of Medicine, United States)
Q&A 11:11 - 11:15

Scientific Symposia (S) 09:45 - 11:15
G
S55 - Surprise! Cortical prediction errors in learning and behavior
Chair: Rebecca Jordan (University of Edinburgh, United Kingdom)
Chair: Leena E Williams (the University of Edinburgh, United Kingdom)
Introduction 09:45 - 09:47
Formation and refinement of prediction-error neurons in circuits with multiple neuron types 09:47 - 10:05
Speaker: Loreen Hertäg (Technische Universität Berlin & Bernstein Center for Computational Neuroscience, Germany)
Q&A 10:05 - 10:09
Neural circuits underlying flexible behavior 10:09 - 10:27
Speaker: Adil Khan (King’s College London, United Kingdom)
Q&A 10:27 - 10:31
Evolution of unexpected event signals in cortical neurons associated with unsupervised learning 10:31 - 10:49
Speaker: Joel L Zylberberg (York University, Canada)
Q&A 10:49 - 10:53
Behavior-relevant top-down cross-modal predictions in mouse neocortex 10:53 - 11:11
Speaker: Fritjof Helmchen (University of Zurich, Switzerland)
Q&A 11:11 - 11:15

Scientific Symposia (S) 09:45 - 11:15
H
S56 - Diverse glial contribution to demyelination and Multiple Sclerosis
Chair: Adelaide Fernandes (Faculty of Pharmacy, Universidade de Lisboa, Portugal)
Chair: Fernando de Castro Soubriet (Spanish Research Council / CSIC-Consejo Superior de Investigaciones Científicas, Spain)
Introduction 09:45 - 09:47
Interplay between activation of endogenous retroviruses, microglia and myelin repair 09:47 - 10:05
Speaker: Patrick Küry (Heinrich-Heine University, Germany)
Q&A 10:05 - 10:09
The path from choroid plexus to the (sub)ventricular zone and back: impact for multiple sclerosis 10:09 - 10:27
Speaker: Ana Mendanha-Falcao (Life and Health Sciences Research Institute (ICVS) at University of Minho; Karolinska Institutet, Portugal)
Q&A 10:27 - 10:31
Neuroglial signatures underlying progressive neuroinflammation 10:31 - 10:49
Speaker: Lucas Schirmer (Heidelberg University, Germany)
Q&A 10:49 - 10:53
Defining the contribution of microglia and perivascular macrophages to myelination of the CNS

Speaker: Alana Hoffmann (Keenan Research Centre for Biomedical Science (St. Michael's Hospital Toronto), Canada)

Q&A

Special Lecture (SL)
11:30 - 12:30

SL08 - The EJN Special Feature Lecture, Michelle Gray (USA), Simona Lodato (Italy)

Introduction

Striatal Astrocyte-Interneuron Interactions in Huntington’s Disease

Speaker: Michelle Gray (University of Alabama at Birmingham, United States)

The EJN Special Feature: Spontaneous activity in the developing cerebral cortex in health and disease

Speaker: Simona Lodato (Humanitas University- Humanitas Research Hospital, Italy)

Special Lecture (SL)
11:30 - 12:30

SL09 - The ERA-NET NEURON/Excellent Paper in Neuroscience Award Lecture, Ana Dorrego-Rivas (UK)

Introduction

The ERA-NET NEURON/Excellent Paper in Neuroscience Award Lecture

Speaker: Ana Dorrego-Rivas (Centre for Developmental Neurobiology, King's College London, United Kingdom)

Special Lecture (SL)
11:30 - 12:15

SL10 - The ALBA-Elsevier Award Lecture, Agustin Ibáñez (Chile), Limei Zhang (Mexico)

Introduction

The ALBA-Elsevier Award Lecture: Brain health research and multimodal diversity

Speaker: Agustin Ibáñez (Global Brain Health Institute (GBHI) and Latin American Brain Health Institute (BrainLat), Chile)

The ALBA-Elsevier Award Lecture

Hypothalamic vasopressin magnocellular to lateral habenula circuit: how homeostatic stress controls motivation

Speaker: Limei Zhang (National Autonomous University of Mexico, Mexico, Mexico)

Poster Sessions with authors in attendance
11:30 - 13:00

PSA07 - Poster Authors in Attendance

Open Theatre (OT)
11:30 - 12:30

Science Literacy: How the Neuroscience Community Can Contribute

Session Description

Award Ceremony (AC)
12:45 - 13:00

AC04 - ALBA-FKNE Diversity Prize Ceremony
Plenary Lecture (PL)
13:00 - 14:00

**PL09 - Hertie Foundation Closing Lecture, Gregoire Courtine and Jocelyne Bloch (CH)**

Mechanism-based neurotechnologies to treat motor and autonomic paralysis

**Speaker:** Gregoire Courtine (EPFL, CHUV and UNIL, Switzerland)

**Speaker:** Jocelyne Bloch (EPFL, CHUV and UNIL, Switzerland)

Other
14:00 - 14:15

Closing Ceremony