

17th European Conference on Fungal Genetics

2 - 5 March 2025



Dublin, Ireland



ECFG17
DUBLIN • IRELAND
2025

Scientific program

17th European Conference on Fungal Genetics 1-5 March 2025 Dublin, Ireland

Saturday, March 1, 2025

Workshop

18:45 - 19:45

Asperfest 21

Welcome

18:45 - 19:00

Pontecorvo Lecture

19:00 - 19:45

Pontecorvo Speaker: Axel Brakhage, Leibniz Institute for Natural Product Research and Infection Biology – Hans Knoll Institute (Leibniz-HKI), Jena, Germany

Asperfest 21 Welcome Reception

19:45 - 19:45

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Sunday, March 2, 2025

Workshop

09:00 - 10:00

BO 2

Asperfest - Session I

Chairs: Fabio Gsaller, Medical University of Innsbruck, Innsbruck, Austria

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|--------|---|---------------|
| WS1.01 | Co-evolution of biological processes as revealed by whole genus genome sequencing of <i>Aspergillus</i> | 09:00 - 09:15 |
| | Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands | |
| WS1.02 | Evolutionary transcriptomics to understand conidial development and germination of pathogenic and non-pathogenic <i>Aspergillus</i> species | 09:15 - 09:30 |
| | Abstract Presenter: Pin Wu, University of Macau, Macao, China | |
| WS1.03 | High recombination rates in <i>Aspergillus fumigatus</i> allows for bulk quantitative trait locus (QTL) mapping of known and novel azole resistance and fitness traits | 09:30 - 09:45 |
| | Abstract Presenter: Clara Valero, The University of Manchester, Manchester, United Kingdom | |
| WS1.04 | Distinct trafficking routes of polarized and non-polarized membrane cargoes in <i>Aspergillus nidulans</i> | 09:45 - 10:00 |
| | Abstract Presenter: Xenia Georgiou, University of Athens, Athens, Greece | |

Workshop

09:00 - 10:45

BO 3

Neurospora - Session 1

Chairs: André Fleissner, Technische Universität Braunschweig, Braunschweig, Braunschweig, Germany

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|--------|---|---------------|
| WS2.01 | Welcome | 09:00 - 09:15 |
| WS2.02 | Using the CRISPR/Cas9 system for GFP-tagging of endogenous genes in <i>Neurospora crassa</i> | 09:15 - 09:30 |
| | Abstract Presenter: Stefanie Grüttner, CAU Kiel/Botanical Institute, Kiel, Germany | |
| WS2.03 | Exploring plant-fungal interactions: insights from <i>Neurospora crassa</i> and <i>Brachypodium distachyon</i> | 09:30 - 09:45 |
| | Abstract Presenter: Hannes Winter, Christian-Albrechts-University, Kiel, Germany | |
| WS2.04 | The BEM46 protein at the crossroads of polarity maintenance, auxin biosynthesis and endophytic growth of <i>Neurospora crassa</i>: a working model | 09:45 - 10:00 |
| | Abstract Presenter: Krisztina Kollath-Leiss, CAU zu Kiel, Kiel, Germany | |
| WS2.05 | Molecular interactions and functional role of the essential protein TEA-5 in polarized growth of <i>Neurospora crassa</i> | 10:00 - 10:15 |
| | Abstract Presenter: Rosa R. Mouriño-Pérez, Centro de Investigación Científica y de Educación Superior de Ensenada, Ensenada, Mexico | |
| WS2.06 | Exploring selective autophagy in the filamentous fungus <i>Sordaria macrospora</i>: identifying interactors of the pexophagy receptor | 10:15 - 10:30 |

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SmNBR1 via BioID

Abstract Presenter: Svenja Groth, Georg-August-University of Göttingen, Göttingen, Germany

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| WS2.07 | Genome wide exploring the autophagy-related genes in filamentous fungi and the functional characterization of <i>atg1</i> and <i>atg5</i> in <i>Neurospora crassa</i> | 10:30 - 10:45 |
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Abstract Presenter: Meng Yuan, Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences, T China

Workshop

09:00 - 10:45

BO 4

Fusarium-host interactions

Chairs: M. Carmen Limón, Universidad de Sevilla, Sevilla, Spain

Chairs: Shay Covo, Hebrew University, Rehovot, Israel

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| WS3.01 | Welcome | 09:00 - 09:10 |
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| WS3.02 | Elucidation of pathogenicity mechanisms of the opportunistic human pathogen <i>Fusarium oxysporum</i> | 09:10 - 09:25 |
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Abstract Presenter: Slavica Janevska, Leibniz Institute for Natural Product Research and Infection Biology – H Institute (Leibniz-HKI), Jena, Germany

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| WS3.03 | Increased copper-resistance in the <i>Fusarium oxysporum</i> species complex | 09:25 - 09:40 |
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Abstract Presenter: Manuel Sánchez López-Berges, Universidad de Córdoba, Córdoba, Spain

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| WS3.04 | Impact of <i>Fusarium</i> species composition and incidence on onion basal rot in Northeastern Israel | 09:40 - 09:55 |
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Abstract Presenter: Ofir Degani, MIGAL—Galilee Research Institute, Kiryat Shmona, Israel

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| WS3.05 | Plant stress perception alters inter-kingdom communication in the rhizosphere | 09:55 - 10:10 |
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Abstract Presenter: Stefania Vitale, University of Naples “Federico II”, Portici, Italy

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| WS3.06 | Developing RNAi-based fungicides to control fusarium head blight | 10:10 - 10:25 |
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Abstract Presenter: Stephen Robinson, Agriculture Canada, Saskatoon, Canada

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| WS3.07 | Horizontal Transfer Contributed to Multiple Outbreaks of Coffee Wilt Disease | 10:25 - 10:40 |
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Abstract Presenter: Tim Barraclough, University of Oxford, United Kingdom

Workshop

09:00 - 10:45

BO 5

Genomes, multiomics and chromatin

Chairs: Teresa Pawlowska, Cornell University, Ithaca, United States

Chairs: Kenneth Wolfe, University College Dublin, Dublin, Ireland

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|--------|----------------|---------------|
| WS4.01 | Welcome | 09:00 - 09:05 |
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| WS4.02 | Anaerobic fungi as treasure trove for biomass degradation machinery for exploitation in renewables-based biotechnology | 09:05 - 09:17 |
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Abstract Presenter: Jolanda van Munster, SRUC, Edinburgh, United Kingdom

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WS4.03	Exploring mucoromycota and endosymbiont diversity and biology using whole genome based life identification numbers	09:17 - 09:29
	Abstract Presenter: Hayden Johnson, Oregon State University, Corvallis, United States	
WS4.04	Genome-based phylogeny of the Mucoraceae and related families reveals temperature adaptation as the main driver of evolution	09:29 - 09:41
	Abstract Presenter: Grit Walther, Leibniz Institute for Natural Product Research and Infection Biology Hans Knoll Institute (Leibniz-HKI), Jena, Germany	
WS4.05	Genomic hints to Mortierellomycota resilience and adaptability	09:41 - 09:53
	Abstract Presenter: Anna Muszewska, Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Poland	
WS4.06	Analysis of potential DNA 6mA readers in early-diverging fungi	09:53 - 10:05
	Abstract Presenter: Pablo Carrillo-Marín, Universidad de Murcia, Murcia, Spain	
WS4.07	Coordinated adaptation of gene families has shaped the genome of dimorphic fungi	10:05 - 10:17
	Abstract Presenter: Ghizlane Tahiri, University of Murcia, Murcia, Spain	
WS4.08	Coupling genome-wide positive selection analysis with transcriptomics to infer molecular bases of the <i>Rhizopus microsporus</i> - <i>Mycetohabitans</i> symbiosis	10:17 - 10:29
	Abstract Presenter: Margaret Branine, Cornell University, Ithaca, United States	
WS4.09	The lifestyle of mucoromycotina 'fine root endophytes' through the genomic lens	10:29 - 10:41
	Abstract Presenter: Alan Wanke, Sainsbury Laboratory Cambridge University, Cambridge, United Kingdom	
	Discussion	10:41 - 10:45

Workshop

09:00 - 10:45

BO 6

Interkingdom interactions of *Trichoderma*

Chairs: Irina S. Druzhinina, Royal Botanic Gardens Kew, Richmond, United Kingdom

WS5.01	Evolution of the interaction between <i>Trichoderma</i> and land plants	09:00 - 09:20
	Abstract Presenter: Isabel Monte, University of Tuebingen ZMBP, Tübingen, Germany	
WS5.02	<i>Trichoderma afroharzianum</i>: A Emerging Maize Pathogen in Europe	09:20 - 09:40
	Abstract Presenter: Annette Pfordt, Goerg-August-University of Goettingen, Goettingen, Germany	
WS5.03	The new frontier of biocontrol: breeding for biologicals and microbiome resilience	09:40 - 10:00
	Abstract Presenter: Laura Grenville-Briggs Didymus, Swedish University of Agricultural Sciences, Alnarp, Sweden	
WS5.04	Integrating <i>Trichoderma gamsii</i> T6085 and <i>Clonostachys rosea</i> IK726 to enhance <i>Fusarium</i> Head Blight control in wheat	10:00 - 10:20
	Abstract Presenter: Arianna Petrucci, University of Pisa, Pisa, Italy	
WS5.05	Plant developmental status determines the outcome of <i>Trichoderma harzianum</i> disease control	10:20 - 10:40
	Abstract Presenter: Maya Bar, Ben-Gurion University of the Negev, Beer-Sheva, Israel	

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Discussion

10:40 - 10:45

Workshop

09:00 - 10:45

BO 7

Evolution and diversity

Chairs: Riccardo Baroncelli, University of Bologna, Bologna, Italy

Chairs: Katsuma Yonehara, The University of Tokyo, Tokyo, Japan

WS6.01 **Welcome** 09:00 - 09:05

WS6.02 **Unraveling the evolutionary history of genetically diverged lineages of *Colletotrichum graminicola*** 09:05 - 09:25

Abstract Presenter: Michael Thon, University of Salamanca, Salamanca, Spain

WS6.03 **Comparative genomics reveals sources of genetic variability in the asexual fungal plant pathogen *Colletotrichum lupini*** 09:25 - 09:45

Abstract Presenter: Joris Alkemade, University of Oxford, Oxford, United Kingdom

WS6.04 **A survey conducted to the Madeira Island (Portugal) reveals the presence of 21 species of *Colletotrichum* occurring on nature and on agricultural and ornamental plants** 09:45 - 10:05

Abstract Presenter: Pedro Talhinhos, Instituto Superior de Agronomia, Universidade de Lisboa, Lisbon, Portugal

WS6.05 **Identification of *Colletotrichum* species: unravelling species boundaries with curated databases and user-friendly tools** 10:05 - 10:25

Abstract Presenter: Ilaria Martino, University of Torino, Grugliasco, Italy

WS6.06 **Phylogenomics and adaptive evolution of the *Colletotrichum gloeosporioides* species complex** 10:25 - 10:45

Abstract Presenter: Fang Liu, State Key Laboratory of Mycology, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China

Workshop

10:00 - 10:30

BO 2

Asperfest - Session II

Chairs: Michelle Momany, University of Georgia, Athens, United States

WS1.05 ***Aspergillus* species epidemiology is driven by climate, soil and fungicides** 10:00 - 10:03

Abstract Presenter: Thomas Easter, University of Manchester, Manchester, United Kingdom

WS1.06 **Understanding secondary metabolite production based on biosynthetic gene cluster-specific transcription factor binding targets** 10:03 - 10:06

Abstract Presenter: Lu Fan, University of Macau, Macau, China

WS1.07 **An improved description of the untranslated regions of poly(A)-tailed RNA from *Aspergillus fumigatus*** 10:06 - 10:09

Abstract Presenter: Lukas Schrettenbrunner, Leibniz-HKI, Jena, Germany

WS1.08 ***Aspergillus fumigatus* conidial surface-associated proteome reveals factors for fungal evasion and host immunity modulation** 10:09 - 10:12

Abstract Presenter: Thaila Reis, University of Sao Paulo, Ribeirao Preto, Brazil

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WS1.09	Flotillin-containing lipid raft microdomains are linked to calcium in <i>Aspergillus nidulans</i>	10:12 - 10:15
	Abstract Presenter: Moemi Kawashima, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany	
WS1.10	Dynamic molecular dialogues in <i>A. nidulans</i> development: Interplay between pheromone producing enzymes and transcriptional regulators	10:15 - 10:18
	Abstract Presenter: Emmanouil Stavros Xylakis, Georg August University, Goettingen, Germany	
WS1.11	Metabolic engineering of <i>Aspergillus violaceofuscus</i>	10:18 - 10:21
	Abstract Presenter: Clara Laubenstein, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany	
WS1.12	Role of the red-light and blue-light photoreceptors in the photoadaptation of transcription in <i>Aspergillus nidulans</i>	10:21 - 10:24
	Abstract Presenter: Antonio Franco-Cano, University of Seville, Seville, Spain	

Poster Workshop
10:30 - 11:30

BO 2

Asperfest Poster Presentations (Odd) - posters in Liffey A

WP1.1	Adsorption of cutinase CutL1 to the Langmuir membrane of hydrophobin RolA derived from the fungus <i>Aspergillus oryzae</i>	10:30 - 10:30
	Abstract Presenter: Keietsu Abe, Tohoku University, Sendai, Japan	
WP1.3	Iterative CRISPR/Cas9 genome editing to reduce extracellular protease activity for heterologous protein production in <i>Aspergillus niger</i>	10:30 - 10:30
	Abstract Presenter: Mark Arentshorst, Leiden University, Leiden, Netherlands	
WP1.5	An improved method to identify <i>het</i> genes of <i>Aspergillus nidulans</i>	10:30 - 10:30
	Abstract Presenter: Ben Auxier, Wageningen University & Research, Wageningen, Netherlands	
WP1.7	FungiDB: a bioinformatics resource for facilitating data exploration, analysis, and integration for fungal and oomycete species	10:30 - 10:30
	Abstract Presenter: David Roos, University of Pennsylvania, Philadelphia, United States	
WP1.9	Biosustainable production of indigoidine dye from polystyrene and polyethylene plastic waste	10:30 - 10:30
	Abstract Presenter: Zoey Bowers, University of Southern California, Los Angeles, United States	
WP1.11	Nation-wide air sampling reveals land use is linked to voriconazole resistance and TR₄₆ prevalence in <i>Aspergillus fumigatus</i> in the Netherlands	10:30 - 10:30
	Abstract Presenter: Bo Briggeman, Wageningen University, Wageningen, Netherlands	
WP1.13	Combination of RNA and ChIP-seq reveals regulatory genes of fungal morphogenesis and secondary metabolism controlled by the chromatin binding KERS complex in <i>Aspergillus nidulans</i>	10:30 - 10:30
	Abstract Presenter: Tri-Thuc Bui, Maynooth University, Maynooth, Ireland	
WP1.15	Mathematical modeling of fungal growth provides insights into antifungal drug resistance	10:30 - 10:30

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Abstract Presenter: David Cánovas, University of Sevilla, Sevilla, Spain

WP1.17	Extraction and derivatization of chaetoglobosin A from <i>Chaetomium globosum</i> for anti-cancer therapy	10:30 - 10:30
	Abstract Presenter: Pei Fang Chiu, University of Southern California, Los Angeles, United States	
WP1.19	Organic acid utilization by <i>Aspergillus niger</i>	10:30 - 10:30
	Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
WP1.21	Activation of a sorbicillinoid pathway through deletion of <i>mcrA</i> in <i>Penicillium rubens</i> YAP001	10:30 - 10:30
	Abstract Presenter: Stella Dziedzic, University of Southern California, Los Angeles, United States	
WP1.23	Precise control of <i>Aspergillus niger</i> pellet size, heterogeneity and core architecture during shake flask cultivation	10:30 - 10:30
	Abstract Presenter: Karin Engelbert, Technische Universität Berlin, Berlin, Germany	
WP1.25	Control of conidiation in the genus <i>Aspergillus</i>: on the centrality and specificity of the master regulator <i>BrlA</i>	10:30 - 10:30
	Abstract Presenter: Oier Etxebeste, Laboratory of Microbiology, Faculty of Chemistry, University of the Basque Country, San Sebastian, Spain	
WP1.27	Role of the red-light and blue-light photoreceptors in the photoadaptation of transcription in <i>Aspergillus nidulans</i>	10:30 - 10:30
	Abstract Presenter: Antonio Franco-Cano, University of Seville, Seville, Spain	
WP1.29	Genetic dissection of the role of proteins associated with ER-PM contacts in <i>Aspergillus nidulans</i>: VapA is essential for growth and polarized recycling of lipid flippases	10:30 - 10:30
	Abstract Presenter: Xenia Georgiou, University of Athens, Athens, Greece	
WP1.31	Identification of potential regulators of the transcription factor <i>AmyR</i> using the screening method based on growth defects caused by <i>brlA</i> overexpression in <i>Aspergillus nidulans</i>	10:30 - 10:30
	Abstract Presenter: Katsuya Gomi, Tohoku University, Sendai, Japan	
WP1.33	Three [2Fe-2S] cluster-binding regions regulate the functional transitions of the <i>Aspergillus fumigatus</i> iron regulator HapX for adaptation to iron starvation, sufficiency and excess	10:30 - 10:30
	Abstract Presenter: Hubertus Haas, Institute of Molecular Biology, Medical University Innsbruck, Innsbruck, Austria	
WP1.35	Establishing <i>Aspergillus niger</i> as a production system for azaphilone colourants from fungi	10:30 - 10:30
	Abstract Presenter: Friederike Hoberg, Technische Universität Berlin, Berlin, Germany	
WP1.37	Rapamycin sensitivity is induced by lithium in <i>Aspergillus fumigatus</i>: structural, binding, and phenotypic effects of lithium induced rapamycin binding to FKBP12	10:30 - 10:30
	Abstract Presenter: Praveen R Juvvadi, University of Arkansas for Medical Sciences, Little Rock, United States	
WP1.39	Regulation of itaconic acid accumulation by the extracellular phosphate ion concentration in <i>Aspergillus terreus</i>	10:30 - 10:30
	Abstract Presenter: Levente Karaffa, University of Debrecen, Debrecen, Hungary	
WP1.43	Novel pore-forming aegerolysins and their MACPF partners from	10:30 - 10:30

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Abstract Presenter: Nada Kraševac, National Institute of Chemistry, Ljubljana, Slovenia

WP1.45	Mutation of nitrogen source assimilation in industrial strains of <i>Aspergillus oryzae</i>	10:30 - 10:30
	Abstract Presenter: Ken-Ichi Kusumoto, Osaka University, Suita, Japan	
WP1.49	The evolutionary landscape of primary carbon metabolism across the <i>Aspergillus</i> genus	10:30 - 10:30
	Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
WP1.53	Functional and physiological characterization of polyol transporters of <i>Aspergillus niger</i>	10:30 - 10:30
	Abstract Presenter: Christina Lyra, Aalto University, Espoo, Finland	
WP1.57	Genetic manipulation of global regulator <i>mcrA</i> in <i>Penicillium rubens</i> to generate a natural product library for high throughput bioactivity screening	10:30 - 10:30
	Abstract Presenter: Thea Millam, University of Southern California, Los Angeles, United States	
WP1.59	Development of a novel siderophore-based antifungal for treatment of <i>A. fumigatus</i>	10:30 - 10:30
	Abstract Presenter: Cathal Murphy, Maynooth University, Maynooth, Ireland	
WP1.61	Characterization of a new glycerol transporter <i>GlpA</i> from <i>Aspergillus niger</i>	10:30 - 10:30
	Abstract Presenter: Liinu Nummela, Aalto University, Espoo, Finland	
WP1.63	Tracking antifungal resistance in <i>A. fumigatus</i> from compost samples in Norway	10:30 - 10:30
	Abstract Presenter: Magdalena Monika Owczarek-Kościelniak, Norwegian Veterinary Institute, Ås, Norway	
WP1.65	Stress-responsive <i>Afu4g10610</i> gene plays a role in cell wall maintenance and osmotic regulation in <i>Aspergillus fumigatus</i>	10:30 - 10:30
	Abstract Presenter: Eduardo Pelegri Martinez, University of the Basque Country (UPV/EHU), Leioa, Spain	
WP1.67	Discovery and characterization of the first fungal granulin in <i>Aspergillus fumigatus</i>	10:30 - 10:30
	Abstract Presenter: Uxue Perez-Cuesta, University of Tennessee Health Science Center, Memphis, United States	
WP1.69	<i>Streptomyces</i> small laccase expressed in <i>Aspergillus niger</i> as a new addition for the lignocellulose bioconversion toolbox	10:30 - 10:30
	Abstract Presenter: Peter Punt, Leiden University, Leiden, Netherlands	
WP1.71	<i>Aspergillus fumigatus</i> conidial surface-associated proteome reveals factors for fungal evasion and host immunity modulation	10:30 - 10:30
	Abstract Presenter: Thaila Reis, University of Sao Paulo, Ribeirao Preto, Brazil	
WP1.73	Growth response of <i>Aspergillus oryzae</i> to soil component humic acid and elucidation of its mechanism	10:30 - 10:30
	Abstract Presenter: Kanae Sakai, Osaka University, Suita, Japan	
WP1.75	Enhancing secondary metabolite production in <i>Penicillium camemberti</i> through genetic manipulation of global regulator <i>mcrA</i> for high-throughput screening	10:30 - 10:30

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	Abstract Presenter: Abigail Shih, Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences, University Southern California, Los Angeles, United States	
WP1.77	Activation of cryptic biosynthetic gene clusters through genetic manipulation of global regulator mcrA in <i>Penicillium expansum</i>	10:30 - 10:30
	Abstract Presenter: Alexandria LaCorte, University of Southern California, Los Angeles, United States	
WP1.79	Elucidating the antifungal modes of action of G-quadruplex-stabilising ligands in <i>A. fumigatus</i>	10:30 - 10:30
	Abstract Presenter: Isabelle Storer, University of East Anglia, Norwich, United Kingdom	
WP1.81	Building a genetic map of aflatoxin biosynthesis to accelerate novel strategies for transgenic and biological Control	10:30 - 10:30
	Abstract Presenter: Kona Swift, University of Arkansas Division of Agriculture, Fayetteville, United States	
WP1.83	Synthetic strategies to optimize octatrienoic acid production in <i>Aspergillus nidulans</i>	10:30 - 10:30
	Abstract Presenter: Maria Tangelos, University of Southern California, Los Angeles, United States	
WP1.85	Identification of novel <i>Aspergillus fumigatus</i> SIN kinase interactors through near-neighbor analysis	10:30 - 10:30
	Abstract Presenter: Harrison Thorn, University of Tennessee Health Science Center, Memphis, United States	
WP1.87	Efficient protoplast preparation method of <i>Aspergillus section Nigri</i> using α-1,3-glucanase and α-1,3-glucan synthesis gene disruption strain	10:30 - 10:30
	Abstract Presenter: Jikian Tokashiki, Tohoku, Sendai, Japan	
WP1.89	Investigation of a novel azole-resistance mechanism in <i>Aspergillus fumigatus</i>	10:30 - 10:30
	Abstract Presenter: Momotaka Uchida, Chiba University, Chiba, Japan	
WP1.91	A CRISPR/Cas9-based multicopy integration system for increased glucoamylase production in <i>Aspergillus niger</i>	10:30 - 10:30
	Abstract Presenter: Jisca L. van Dam, Leiden University, Leiden, Netherlands	
WP1.93	Multi-drug resistant <i>Aspergillus fumigatus</i> are more fit at sub-inhibitory concentrations of DHODH inhibitors	10:30 - 10:30
	Abstract Presenter: Norman van Rhijn, University of Manchester, Manchester, United Kingdom	
WP1.95	Immunoassay to detect urinary siderophore Triacetylfusarinine-C (TAFC) as a diagnostic biomarker of Invasive Aspergillosis	10:30 - 10:30
	Abstract Presenter: Kieran Walshe, Maynooth University, Maynooth, Ireland	
WP1.97	Saintopin biosynthesis implies a non-canonical polyketide cyclization mechanism	10:30 - 10:30
	Abstract Presenter: Carsten Wieder, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany	
WP1.99	Dynamic molecular dialogues in <i>A. nidulans</i> development: Interplay between pheromone producing enzymes and transcriptional regulators	10:30 - 10:30
	Abstract Presenter: Emmanouil Stavros Xylakis, Georg August University, Goettingen, Germany	
WP1.101	Atypical cell death phenomenon induced by cell fusion revealed by pairing diverse strains in the industrial fungus <i>Aspergillus oryzae</i>	10:30 - 10:30

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Abstract Presenter: Yahong Zou, The University of Tokyo, Tokyo, Japan

WP1.103 **Multi-drug and -fungicide resistance in the pathogen *Aspergillus fumigatus*** 10:30 - 10:30

Abstract Presenter: Michelle Momany, University of Georgia, Athens, United States

Break

10:45 - 11:15

Tea and Coffee Break

Workshop

11:15 - 12:15

BO 3

Neurospora - Session 2

Chairs: André Fleissner, Technische Universität Braunschweig, Braunschweig, Braunschweig, Germany

WS2.08 **Biotin capture of the proxime of the SmSTRIPAK complex in *Sordaria macrospora* identifies a greenbeard gene as a putative interactor** 11:15 - 11:30

Abstract Presenter: Lucas Sebastian Hollstein, Georg-August-University of Göttingen, Göttingen, Germany

WS2.09 **Decoding membrane repair mechanisms in *Neurospora crassa*: Insights into fungal cell recovery** 11:30 - 11:45

Abstract Presenter: André Fleissner, Technische Universität Braunschweig, Braunschweig, Braunschweig, Germany

WS2.10 **EOP-1: a key protein for cell-cell interaction with an AIM24-like domain and an extended IDR that might drive droplet formation** 11:45 - 12:00

Abstract Presenter: Lina Strzelczyk, Technische Universität Braunschweig, Braunschweig, Germany

WS2.11 **Role of checkpoint kinases in regulating *Neurospora* circadian clock under DNA damage stress** 12:00 - 12:15

Abstract Presenter: Xiao Liu, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China

Workshop

11:15 - 12:15

BO 4

Gene regulation and signalling

Chairs: Stefania Vitale, University of Naples "Federico II", Portici, Italy

WS3.08 **Role of phenotypic switching in the regulation of *Fusarium oxysporum* development and pathogenicity** 11:15 - 11:30

Abstract Presenter: Pilar Gutiérrez Escribano, Universidad de Córdoba, Córdoba, Spain

WS3.09 **X-ray microtomography and MAP kinase signaling reveal distinct stages of *Fusarium oxysporum* root invasion and colonization patterns** 11:30 - 11:45

Abstract Presenter: David Turra, University of Naples "Federico II", Portici, Italy

WS3.10 **Conidia not identical as you may think** 11:45 - 12:00

Abstract Presenter: Shay Covo, Hebrew University, Rehovot, Israel

WS3.11 **Effect of volatile organic compounds from bacterial biocontrol agents against the tomato vascular wilt pathogen *Fusarium oxysporum*** 12:00 - 12:15

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Abstract Presenter: Carmen Ruiz Roldán, Univeristy of Cordoba, Faculty of Sciences, Cordoba, Spain

Workshop

11:15 - 12:15

BO 5

Symbiosis and other roles

Chairs: Jessie Uehling, Oregon State University, Oregon, United States

WS4.10 **Withdrawn** 11:15 - 11:27

WS4.11 **Structure of Mucoromycota fungal communities and their associated endosymbiotic bacteria across two different biomes in the U.S. and Israel** 11:27 - 11:39

Abstract Presenter: Nicole Reynolds, California Polytechnic University, Pomona, Pomona, United States

WS4.12 **Peculiarities in the genome maintenance of Arbuscular Mycorrhizal Fungi** 11:39 - 11:51

Abstract Presenter: Drishtee Barua, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland

WS4.13 **Initiation of endosymbiosis in *Rhizopus microsporus* indicates a shift from antagonism to commensalism** 11:51 - 12:03

Abstract Presenter: Thomas Gassler, ETH Zurich / Institute of Microbiology, Zurich, Switzerland

Abstract Presenter: Alannah Holderbusch, ETH Zurich / Institute of Microbiology, Zurich, Switzerland

Discussion 12:03 - 12:05

Workshop

11:15 - 12:15

BO 6

Challenges of Trichoderma taxonomy and nomenclature

Chairs: Irina S. Druzhinina, Royal Botanic Gardens Kew, Richmond, United Kingdom

WS5.06 **Taxogenomic analysis reveals the reticulate evolution of the genus *Trichoderma*** 11:15 - 11:30

Abstract Presenter: Feng Cai, Sun Yat-sen University, Shenzhen, China

WS5.07 **Community Efforts to Transform Taxonomic Challenges into Advancements in Trichoderma Biology** 11:30 - 11:45

Abstract Presenter: Irina S. Druzhinina, Royal Botanic Gardens Kew, Richmond, United Kingdom

Voting 11:45 - 12:05

Workshop

11:15 - 12:15

BO 7

Biology and epidemiology

Chairs: Riccardo Baroncelli, University of Bologna, Bologna, Italy

Chairs: Katsuma Yonehara, The University of Tokyo, Tokyo, Japan

WS6.07 **Aetiology, epidemiology and environmental influences on almond anthracnose in Portuguese orchards** 11:15 - 11:35

Abstract Presenter: Madalena Ramos, Instituto Superior de Agronomia, Lisboa, Portugal

WS6.08 **Acidification by germlings initiates inter- and intraspecies conidial** 11:35 - 11:55

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anastomosis tube formation

Abstract Presenter: Daniela Nordzike, Georg-August University Göttingen, Göttingen, Germany

WS6.09 **Mycosporines in spore-type specific development and corn anthracnose spreading** 11:55 - 12:15

Abstract Presenter: Disha Rath, Georg-August University Göttingen, Institute of Microbiology and Genetics, Göttingen, Germany

Workshop

11:30 - 12:30

BO 2

Asperfest - Session III

Chairs: Amelia E Barber, Friedrich Schiller University Jena, Jena, Germany

WS1.13 **Tracking hyphal fusion in highly diverse *Aspergillus fumigatus* populations to identify the formation of multi-drug resistance heterokaryon compatibility groups** 11:30 - 11:45

Abstract Presenter: Michael Bottery, University of Manchester, Manchester, United Kingdom

WS1.14 **Dominant negative effect on UPR and RIDD by expression of RNase-inactive IreA in *Aspergillus oryzae*** 11:45 - 12:00

Abstract Presenter: Masaki Yokoyama, Tohoku University, Sendai, Japan

WS1.15 **Discovery and characterization of the first fungal granulin in *Aspergillus fumigatus*** 12:00 - 12:15

Abstract Presenter: Uxue Perez-Cuesta, University of Tennessee Health Science Center, Memphis, United States

WS1.16 **The multipurpose cell factory *Aspergillus niger* can be engineered to produce hydroxylated collagen** 12:15 - 12:30

Abstract Presenter: Tom Morris, Technische Universität Berlin, Berlin, Germany

Break

12:15 - 13:30

Lunch Break

Workshop

13:15 - 15:00

BO 3

Neurospora - Session 3

Chairs: André Fleissner, Technische Universität Braunschweig, Braunschweig, Braunschweig, Germany

WS2.12 **Cross-species comparison of AlphaFold-derived G protein-coupled receptor structures reveals novel melatonin-related receptor in *Neurospora crassa*** 13:15 - 13:30

Abstract Presenter: Cathryn Maienza, Rutgers University - Camden, Camden, United States

WS2.13 **Gene expression dynamics associated with the developmental processes of conidial germination and polar growth in filamentous fungi** 13:30 - 13:45

Abstract Presenter: Viola Halder, Yale University, New Haven, United States

WS2.14 **Developmental gene expression and genome evolution in the shift from asexual propagation to sexual resistance in *Neurospora crassa*** 13:45 - 14:00

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Abstract Presenter: Jennifer R. Wang, Yale School of Public Health, New Haven, United States

WS2.15 **Polycomb repressive complex II balances vegetative growth and perithecial development in *Neurospora crassa*** 14:00 - 14:15

Abstract Presenter: Abigail Deaven, University of Georgia, Athens, United States

WS2.16 **Transcriptional adaptation is conserved in the filamentous fungus *Neurospora crassa* and plays a considerable role in fungal fitness** 14:15 - 14:30

Abstract Presenter: Hamzeh Haj Hammadeh, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

WS2.17 **Conserved DNA methylation within the *Neurospora* genus** 14:30 - 14:45

Abstract Presenter: Jesper Svedberg, Stockholm University, Stockholm, Sweden

Workshop

13:15 - 15:00

BO 4

Secondary metabolism and mycotoxins

Chairs: Fiona Doohan, University College Dublin, Dublin, Ireland

Chairs: Massimo Reverberi, Italy

WS3.12 **A *Fusarium graminearum* protein interaction network of trichothecene biosynthesis pathways** 13:15 - 13:30

Abstract Presenter: Gopal subramaniam, Agriculture Canada, Ottawa, Canada

WS3.13 **Characterization of the antifungal effect of *Bacillus amyloliquefaciens* against *Fusarium oxysporum*** 13:30 - 13:45

Abstract Presenter: Aurora Yáñez-Vilches, Universidad de Córdoba, Córdoba, Spain

WS3.14 **The emerging threat of *Fusarium* Head Blight in Ethiopia: emerging pathogens, mixed mycotoxins, and interspecies interactions** 13:45 - 14:00

Abstract Presenter: Anne Hatmaker, USDA-ARS, Saint Paul, United States

WS3.15 **Exploring the association between *Fusarium* mycotoxins (T2 and HT-2) and grain microbiome in Irish oats** 14:00 - 14:15

Abstract Presenter: Natarajan Subramani, School of Biology and Environmental Science, Earth Institute, University College Dublin, Belfield, Dublin, Ireland

WS3.16 **Overexpression of a truncated HMG coA reductase in *Fusarium fujikuroi*** 14:15 - 14:30

Abstract Presenter: M. Carmen Limón, Universidad de Sevilla, Sevilla, Spain

WS3.17 **A secondary metabolite from *Beauveria bassiana* reprograms root exudate recognition and virulence in *Fusarium oxysporum*** 14:30 - 14:45

Abstract Presenter: Marta Ranesi, Università degli Studi di Napoli Federico II (Napoli), Portici, Italy

Workshop

13:15 - 15:00

BO 5

Virulence, antifungal resistance and adaptation

Chairs: Stephanie Töpfer, Medical University of Innsbruck, Innsbruck, Austria

Chairs: Victoriano Garre, Universidad de Murcia, Murcia, Spain

WS4.14 **Understanding *Rhizopus* virulence in mucormycosis** 13:15 - 13:27

Abstract Presenter: Andreas Guerrero, Oregon State University, Corvallis, United States

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WS4.15	The role of rhizoferrin in growth and virulence of <i>Rhizopus microsporus</i> Abstract Presenter: Jakob Scheler, Medical University Innsbruck, Innsbruck, Austria	13:27 - 13:39
WS4.16	The development of a Tet-off system in Mucorales unveils the crucial role of DNA 6mA in pathogenesis Abstract Presenter: Carlos Lax, University of Murcia, Murcia, Spain	13:39 - 13:51
WS4.17	Experimental preclinical imaging-compatible animal models of mucormycosis Abstract Presenter: Ulrike Binder, Medical University Innsbruck/Institute of Hygiene and Medical Microbiology Innsbruck, Austria	13:51 - 14:03
WS4.18	Host brain environment triggers RNAi epimutation in the human pathogen <i>Mucor circinelloides</i> Abstract Presenter: Maribel Navarro-Mendoza, Duke University, Durham, United States	14:03 - 14:15
WS4.19	RNAi drives heritability of epimutational antimicrobial resistance Abstract Presenter: Carlos Perez Arques, Duke University, Durham, United States	14:15 - 14:27
WS4.20	Understanding of primary resistance to echinocandin in <i>Mucor</i> Abstract Presenter: Soo Chan Lee, Texas Tech University Health Science Center, Lubbock, United States	14:27 - 14:39
WS4.21	The role of cell wall remodeling in early divergent Mucoromycotina response to bacterial and plant defenses Abstract Presenter: Hana Barrett, Cornell University, Ithaca, United States	14:39 - 14:51
	Discussion	14:51 - 15:00
Workshop 13:15 - 15:00		
	Genomics and biotechnologies of Trichoderma and Clonostachys Chairs: Feng Cai, Sun Yat-sen University, Shenzhen, China	BO 6
WS5.08	Homothallic or heterothallic: a genomic investigation into the sexual capabilities of <i>Clonostachys rosea</i> Abstract Presenter: Magnus Karlsson, Swedish University of Agricultural Sciences, Uppsala, Sweden	13:15 - 13:35
WS5.09	Polyphasic approach revealed the genomic and phenotypic variation across the supreme plant biomass degradation genus <i>Trichoderma</i> Abstract Presenter: Peijie Chen, Nanjing Agricultural University, Nanjing, China	13:35 - 13:55
WS5.10	Unraveling the chromosomal landmarks of the filamentous fungus <i>Trichoderma reesei</i> Abstract Presenter: Killian Métivier, IFP Energies Nouvelles, Rueil-Malmaison, France	13:55 - 14:15
WS5.11	Unveiling the diversity of <i>Trichoderma reesei</i>: new paths for biotechnological advances Abstract Presenter: Tiziano Benocci, University of Vienna, Vienna, Austria	14:15 - 14:35
WS5.12	The role of HFB1 in the mate recognition and sexual reproduction initiation in <i>Trichoderma reesei</i> Abstract Presenter: Feng Cai, Sun Yat-sen University, Shenzhen, China	14:35 - 14:55

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Discussion and surveys

14:55 - 15:00

Workshop

13:15 - 15:00

BO 7

Genetics and interaction 1

Chairs: Riccardo Baroncelli, University of Bologna, Bologna, Italy

Chairs: Michael Thon, University of Salamanca, Salamanca, Spain

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|--------|---|---------------|
| WS6.10 | Genomic characterization of pathogenicity genes in <i>Colletotrichum</i> species affecting apple orchards in Northern Italy
Abstract Presenter: Salvatore Iacono, University of Bologna, Bologna, Italy | 13:15 - 13:35 |
| WS6.11 | Bioinformatics-driven identification of candidate pathogenicity-related genes in <i>Colletotrichum lupini</i> through comparative genomics and effector profiling
Abstract Presenter: Andrea Menicucci, University of Bologna, Bologna, Italy | 13:35 - 13:55 |
| WS6.12 | High-efficiency multiplex gene targeting in <i>Colletotrichum</i> fungi using CRISPR-Cas9 co-editing and dual-marker exchange
Abstract Presenter: Naoyoshi Kumakura, RIKEN, Yokohama, Japan | 13:55 - 14:15 |
| WS6.13 | The gene <i>CgEP4</i> encodes an effector that plays a key role in <i>Colletotrichum graminicola</i> virulence in maize
Abstract Presenter: Pablo García Rodríguez, Universidad de Salamanca - Instituto de Investigación en Agrobiotecnología (CIALE), Villamayor, Spain | 14:15 - 14:35 |
| WS6.14 | Comparative analysis of the transcriptome of the beneficial endophyte <i>Colletotrichum tofieldiae</i> in maize and <i>Arabidopsis thaliana</i>
Abstract Presenter: Soledad Sacristán, Universidad Politécnica de Madrid, Madrid, Spain | 14:35 - 14:55 |
| | Discussion | 14:55 - 15:00 |

Workshop

13:30 - 14:00

BO 2

Asperfest - Community discussion and elections

- | | | |
|--------|---|---------------|
| WS1.17 | Community Discussion and Elections | 13:30 - 14:00 |
|--------|---|---------------|

Workshop

14:00 - 15:00

BO 2

Asperfest - Session IV

Chairs: Johanna Rhodes, University of Birmingham, Birmingham, United Kingdom

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|--------|---|---------------|
| WS1.18 | RNA-binding protein SsdA shows dynamic localisation and transport during hyphal growth in <i>Aspergillus nidulans</i>
Abstract Presenter: Edward W.J. Wallace, University of Edinburgh, Edinburgh, United Kingdom | 14:00 - 14:15 |
| WS1.19 | Reference pangenomes improve 'omics analysis of fungi by capturing their genetic diversity: a demonstration from <i>Aspergillus fumigatus</i> | 14:15 - 14:30 |

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Abstract Presenter: Marion Perrier, Friedrich Schiller University, Jena, Germany

WS1.20 **Elucidating the antifungal modes of action of G-quadruplex-stabilising ligands in *A. fumigatus*** 14:30 - 14:45

Abstract Presenter: Isabelle Storer, University of East Anglia, Norwich, United Kingdom

WS1.21 **Multi-omics analysis of a fungal cell factory producing recombinant enzyme controlled by a constitutive or inducible promoter** 14:45 - 15:00

Abstract Presenter: Lana OHara Souza Silva, UNICAMP, Campinas, Brazil

Poster Workshop

15:00 - 16:30

BO 2

Asperfest Poster Presentations (Even) - posters in Liffey A

WP1.2 **Study of the value of NL1 as an anti-persulfidation and anti-virulence compound in *Aspergillus fumigatus*** 15:00 - 15:00

Abstract Presenter: Jorge Amich, Instituto de Salud Carlos III, Majadahonda, Spain

WP1.4 **Fungal Cutinase revisited: Expression and characterization of novel *Fusarium* Cutinases in *Aspergillus niger* and application in bioremediation** 15:00 - 15:00

Abstract Presenter: Mark Arentshorst, Leiden University, Leiden, Netherlands

WP1.6 **Characterization of Regulation of Ace2 and Morphogenesis (RAM) network components in *Aspergillus fumigatus* carbon source-mediated morphogenesis** 15:00 - 15:00

Abstract Presenter: Devi Naga Jyothi Bale, University of Tennessee Health Science Center, Memphis, United States

WP1.8 **Tracking hyphal fusion in highly diverse *Aspergillus fumigatus* populations to identify the formation of multi-drug resistance heterokaryon compatibility groups** 15:00 - 15:00

Abstract Presenter: Michael Bottery, University of Manchester, Manchester, United Kingdom

WP1.10 **Characterisation of the antifungal effects of manogepix on the human-pathogenic mould *Aspergillus fumigatus*** 15:00 - 15:00

Abstract Presenter: Sean Brazil, Trinity College Dublin, Dublin, Ireland

WP1.12 **Valorization of whiskey side-streams for sustainable mycoprotein production and waste reduction** 15:00 - 15:00

Abstract Presenter: Tri-Thuc Bui, Maynooth University, Maynooth, Ireland

WP1.14 **The oxylipin-responsive transcription factor ZfpA mediates tolerance against fungicidal tip lysis by β -1,3-glucan synthase targeting antifungals in *A. fumigatus*** 15:00 - 15:00

Abstract Presenter: Dante Calise, University of Wisconsin - Madison, Madison, United States

WP1.16 **Unveiling the genetic background of azole-resistant and susceptible *Aspergillus fumigatus* environmental isolates of the Basque Country** 15:00 - 15:00

Abstract Presenter: Saioa Cendon-Sanchez, University of the Basque Country (UPV/EHU), Bilbao, Spain

WP1.18 **Co-evolution of biological processes as revealed by whole genus genome sequencing of *Aspergillus*** 15:00 - 15:00

Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands

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WP1.20	Novel insights into endogenous biotinylation in fungi Abstract Presenter: Zhiqiang Dong, University of Macau, Macau, China	15:00 - 15:00
WP1.22	<i>Aspergillus</i> species epidemiology is driven by climate, soil and fungicides Abstract Presenter: Thomas Easter, University of Manchester, Manchester, United Kingdom	15:00 - 15:00
WP1.26	Understanding secondary metabolite production based on biosynthetic gene cluster-specific transcription factor binding targets Abstract Presenter: Lu Fan, University of Macau, Macau, China	15:00 - 15:00
WP1.28	Functional analysis of maltose/isomaltose transporters using the nuclear translocation assay of the transcription factor AmyR in <i>Aspergillus oryzae</i> Abstract Presenter: Shoki Fujita, Tohoku University, Sendai, Japan	15:00 - 15:00
WP1.30	Distinct trafficking routes of polarized and non-polarized membrane cargoes in <i>Aspergillus nidulans</i> Abstract Presenter: Xenia Georgiou, University of Athens, Athens, Greece	15:00 - 15:00
WP1.32	Boosting <i>Aspergillus</i> antifungal research combining multiplex CRISPR/Cas9 with counter-selection Abstract Presenter: Fabio Gsaller, Medical University of Innsbruck, Innsbruck, Austria	15:00 - 15:00
WP1.34	Beware the air?: Exploring indoor airborne fungal communities and urban chemical pollutants Abstract Presenter: Sam Hemmings, Imperial College London, London, United Kingdom	15:00 - 15:00
WP1.36	Identification and functional analysis of the novel isomaltose sensor/transporter involved in the activation of the transcription factor AmyR in <i>Aspergillus nidulans</i> Abstract Presenter: Da Min Jeong, Tohoku university, Sendai, Japan	15:00 - 15:00
WP1.38	Regulation of the citrate exporter-encoding <i>cexA</i> during <i>Aspergillus niger</i> citric acid fermentation Abstract Presenter: Levente Karaffa, University of Debrecen, Debrecen, Hungary	15:00 - 15:00
WP1.40	Flotillin-containing lipid raft microdomains are linked to calcium in <i>Aspergillus nidulans</i> Abstract Presenter: Moemi Kawashima, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany	15:00 - 15:00
WP1.42	Post-translational modifications in response to hypoxia in the filamentous fungus <i>Aspergillus fumigatus</i> Abstract Presenter: Olaf Kniemeyer, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany	15:00 - 15:00
WP1.44	Discovery and biosynthesis of antifungal polyhydroxy-polyketide acrophialocinol Abstract Presenter: Moritz Kuenzer, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany	15:00 - 15:00
WP1.46	Guardian of the cell: How cryptochrome balances the stress response in <i>Aspergillus nidulans</i> Abstract Presenter: Alexander Landmark, Karlsruhe Institute of Technology, Karlsruhe, Germany	15:00 - 15:00

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WP1.48	Metabolic engineering of <i>Aspergillus violaceofuscus</i> Abstract Presenter: Clara Laubenstein, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany	15:00 - 15:00
WP1.50	Characterization of GH67 and GH115 α-1,2-glucuronidases (AGUs) for improvement of xylooligosaccharide production Abstract Presenter: Lanyu Li, Utrecht University & Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	15:00 - 15:00
WP1.52	Identification and characterization of enzymes involved in the tannic acid and gallic acid metabolism of <i>Aspergillus niger</i> Abstract Presenter: Ronnie Lubbers, Leiden University, Institute Biology Leiden, Leiden, Netherlands	15:00 - 15:00
WP1.54	Deciphering the role of the key HR1 regulatory domain of protein kinase C (PkcA) in the fungal pathogen <i>Aspergillus fumigatus</i> Abstract Presenter: Iran Malavazi, Universidade Federal de São Carlos (UFSCar), São Carlos, Brazil	15:00 - 15:00
WP1.58	The multipurpose cell factory <i>Aspergillus niger</i> can be engineered to produce hydroxylated collagen Abstract Presenter: Tom Morris, Technische Universität Berlin, Berlin, Germany	15:00 - 15:00
WP1.60	Dysbalance of the murine lung microbiome by the human pathogenic fungus <i>Aspergillus fumigatus</i> Abstract Presenter: Liubov Nikitashina, Leibniz Institute for Natural Product Research and Infection Biology - Knöll Institute, Jena, Germany	15:00 - 15:00
WP1.62	Uncover the potential of secreted Luciferases expressed in <i>Aspergillus niger</i>: fusion-proteins and high-throughput screening Abstract Presenter: Katharina J. Ost, Osnabrück University of Applied Sciences, Osnabrück, Germany	15:00 - 15:00
WP1.64	Microfluidic control reveals chemotropism of fungal hyphae to nutrients and pH Abstract Presenter: Norio Takeshita, University of Tsukuba, Tsukuba, Japan	15:00 - 15:00
WP1.66	Discovery of novel fungal carbon metabolic enzymes through transfer learning Abstract Presenter: Mao Peng, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	15:00 - 15:00
WP1.68	Reference pangenomes improve 'omics analysis of fungi by capturing their genetic diversity: a demonstration from <i>Aspergillus fumigatus</i> Abstract Presenter: Marion Perrier, Friedrich Schiller University, Jena, Germany	15:00 - 15:00
WP1.70	Re-evaluating the fungal D-glucuronic acid pathway Abstract Presenter: Nooshin Rahnama, Westerdijk Fungal Biodiversity Institute & Fungal Molecular Physiology, Utrecht, Netherlands	15:00 - 15:00
WP1.72	Arginoketides mediating cross-kingdom microbial interactions are modified by a fungal oxidase Abstract Presenter: Maira Rosin, Leibniz Institut für Natural Product Research and Infection Biology - HKI, Jena, Germany	15:00 - 15:00
WP1.74	An improved description of the untranslated regions of poly(A)-tailed RNA from <i>Aspergillus fumigatus</i> Abstract Presenter: Lukas Schrettenbrunner, Leibniz-HKI, Jena, Germany	15:00 - 15:00
WP1.76	Discovery of penicillic acid as a chemical probe against tau	15:00 - 15:00

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aggregation in Alzheimer's Disease

Abstract Presenter: Jennifer Shyong, University of Southern California, Los Angeles, United States

WP1.78	Multi-omics analysis of a fungal cell factory producing recombinant enzyme controlled by a constitutive or inducible promoter	15:00 - 15:00
	Abstract Presenter: Lana OHara Souza Silva, UNICAMP, Campinas, Brazil	
WP1.80	Improved hyphal dispersion strain of <i>Aspergillus oryzae</i> with decreased wall-growth in the liquid fermentation	15:00 - 15:00
	Abstract Presenter: Shunya Susukida, Tohoku University, Sendai, Japan	
WP1.82	High-throughput identification of genetic factors driving tissue invasion in <i>Aspergillus fumigatus</i> through an integrated <i>in vitro</i> and <i>ex vivo</i> screening platform	15:00 - 15:00
	Abstract Presenter: Shi Ying Tang, Manchester Metropolitan University, Manchester, United Kingdom	
WP1.84	Activity-based profiling of β-mannanases in <i>Aspergillus niger</i>	15:00 - 15:00
	Abstract Presenter: Massimo Tedeschi, Leiden University, Institute of Biology Leiden, Leiden, Netherlands	
WP1.86	Combination therapy suppresses the emergence of resistance in <i>Aspergillus fumigatus</i>	15:00 - 15:00
	Abstract Presenter: Jamie Tindale, University of Manchester, Manchester, United Kingdom	
WP1.88	Development of new and highly efficient <i>Agrobacterium</i>-mediated platforms for genetic manipulation in some important filamentous fungi	15:00 - 15:00
	Abstract Presenter: Van-Tuan Tran, University of Science, Vietnam National University, Hanoi, Ha Noi, Vietnam	
WP1.90	High recombination rates in <i>Aspergillus fumigatus</i> allows for bulk quantitative trait locus (QTL) mapping of known and novel azole resistance and fitness traits	15:00 - 15:00
	Abstract Presenter: Clara Valero, The University of Manchester, Manchester, United Kingdom	
WP1.92	Mutations in the AmyR transcription factor leading to constitutive expression of starch degrading enzymes in <i>Aspergillus niger</i>	15:00 - 15:00
	Abstract Presenter: Jisca L. van Dam, Leiden University, Leiden, Netherlands	
WP1.94	RNA-binding protein SsdA shows dynamic localisation and transport during hyphal growth in <i>Aspergillus nidulans</i>	15:00 - 15:00
	Abstract Presenter: Edward W.J. Wallace, University of Edinburgh, Edinburgh, United Kingdom	
WP1.96	Carbon fiber reinforced polymers composite recycling and thermoset matrix up-cycling utilizing an engineered strain of <i>Aspergillus nidulans</i>	15:00 - 15:00
	Abstract Presenter: Clay Wang, University of Southern California, Los Angeles, United States	
WP1.98	Evolutionary transcriptomics to understand conidial development and germination of pathogenic and non-pathogenic <i>Aspergillus</i> species	15:00 - 15:00
	Abstract Presenter: Pin Wu, University of Macau, Macao, China	
WP1.100	Dominant negative effect on UPR and RIDD by expression of RNase-inactive IreA in <i>Aspergillus oryzae</i>	15:00 - 15:00
	Abstract Presenter: Masaki Yokoyama, Tohoku University, Sendai, Japan	

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WP1.102	Integrated study of fungal secondary metabolite and exoenzyme profiles, elucidating evolution of fungal interaction with competitors, substrate and host	15:00 - 15:00
	Abstract Presenter: Lene Lange, Technical University of Denmark, Valby, Denmark	
<i>Break</i>		
15:00 - 15:30		
Tea and Coffee Break		
<i>Workshop</i>		
15:30 - 17:30		
Neurospora - Session 4		BO 3
Chairs: André Fleissner, Technische Universität Braunschweig, Braunschweig, Braunschweig, Germany		
WS2.18	Towards understanding mechanisms of de novo epigenetic silencing	15:30 - 15:45
	Abstract Presenter: Florian Carlier, Institut Pasteur, Paris, France	
WS2.19	Effects of the polar growth-related genes on the growth and the regulation of cellulase expression in <i>Neurospora crassa</i>	15:45 - 16:00
	Abstract Presenter: Lina Qin, Fujian Normal University, Fuzhou, China	
WS2.20	Functional characterization of sugar transporters from <i>Neurospora crassa</i> and their involvement in coping with stress conditions	16:00 - 16:15
	Abstract Presenter: Elisabeth Tamayo, Technical University of Munich, Freising, Germany	
WS2.21	Redox regulation of proteins through reversible cysteine oxidation in <i>Neurospora crassa</i> during cellulose degradation and anaerobiosis	16:15 - 16:30
	Abstract Presenter: Lionel Tarrago, Aix-Marseille University/Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement, Marseille, France	
WS2.22	Roles for heterotrimeric G-proteins and adenylyl cyclase in transcriptional control of cellulase gene expression in <i>Neurospora crassa</i>	16:30 - 16:45
	Abstract Presenter: Katherine Borkovich, University of California, Riverside, Riverside, United States	
WS2.24	FungiDB: Current situation and impact on the <i>Neurospora</i> community	16:45 - 17:00
	Abstract Presenter: Omar Harb, University of Pennsylvania, United States	
WS2.25	<i>Neurospora</i> multiomics at JGI	17:00 - 17:15
	Abstract Presenter: Igor Grigoriev, Joint Genome Institute / Lawrence Berkeley National Laboratory / UC Berkeley, United States	
	Discussion	17:15 - 17:30

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Workshop

15:30 - 17:30

BO 4

Evolution, taxonomy and genome dynamics

Chairs: Slavica Janevska, Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute (Leibniz-HKI), Jena, Germany

Chairs: Yong Zhang, Georgia Southern University, Statesboro, United States

WS3.18 **The enigmatic role of mini-chromosomes in *Fusarium verticillioides*** 15:30 - 15:45

Abstract Presenter: Luigi Faino, University of Rome, Roma, Italy

WS3.19 **A selfish Spore Killer element contributes to mitotic stability of a dispensable fungal chromosome** 15:45 - 16:00

Abstract Presenter: Gema Puebla Planas, University of Cordoba, Cordoba, Spain

WS3.20 **A taxonomic revision of the *Fusarium sambucinum* species complex** 16:00 - 16:15

Abstract Presenter: Pedro Crous, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands

WS3.21 **Population genomic analyses reveal geographic structure in *Fusarium verticillioides*** 16:15 - 16:30

Abstract Presenter: Stephen Harding, U.S. Department of Agriculture, Peoria, United States

WS3.22 **Analysis of the diversity in the *Fusarium oxysporum* and *Fusarium solani* species complexes in indoor environments and clinical isolates** 16:30 - 16:45

Abstract Presenter: Enrico Garbe, Leibniz Institute for Natural Product Research and Infection Biology – Hans Institute, Jena, Germany

WS3.23 **Genomics approach in analysis of *Fusarium* apple fruit rot** 16:45 - 17:00

Abstract Presenter: Mladen Petres, University of Novi Sad, Novi Sad, Serbia

WS3.24 **Introduction to the FungiDB platform** 17:00 - 17:15

Abstract Presenter: Evelina Basenko, University of Liverpool, United Kingdom

Discussion 17:15 - 17:30

Workshop

15:30 - 17:30

BO 5

Cellular biology

Chairs: Joseph Heitman, Duke University, Durham, United States

WS4.22 **Identification of two new genes controlling dimorphism in *Mucorales*** 15:30 - 15:42

Abstract Presenter: Gabriel Navarro Del Saz, Universidad de Murcia, Facultad de Biología, Murcia, Spain

WS4.23 **Mucromycete germlings undergo regulated cell death mediated by adenylyl cyclases in the innate immune response to bacterial perception** 15:42 - 15:54

Abstract Presenter: Delia Tota, Cornell University, Ithaca, United States

WS4.24 **MAT Loci in the mortierellaceae: genomic, empirical and molecular evidence** 15:54 - 16:06

Abstract Presenter: Kyle Mondron, Oregon State University, Corvallis, United States

Discussion 16:06 - 17:30

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Workshop

15:30 - 17:30

BO 6

Functional genetics of *Trichoderma*

Chairs: Feng Cai, Sun Yat-sen University, Shenzhen, China

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|--------|---|---------------|
| WS5.13 | Unveiling the H3K4me3 dynamics in cellulase induction across wild type and hyperproducer strains of <i>Trichoderma reesei</i> | 15:30 - 15:50 |
| | Abstract Presenter: Frederique Bidard, IFP Energies Nouvelles, Rueil-Malmaison, France | |
| WS5.14 | N-acetylglucosamine sensing in <i>Trichoderma reesei</i> | 15:50 - 16:10 |
| | Abstract Presenter: Lisa Kappel, KTH Royal Institute of Technology, Stockholm, Sweden | |
| WS5.15 | Are1 implication in iron metabolism | 16:10 - 16:30 |
| | Abstract Presenter: Clara Baldin, University of Innsbruck, Innsbruck, Austria | |
| WS5.16 | Activation of the Illicicolin BGC in <i>Trichoderma reesei</i> results in high-yield production of Illicicolin H and a novel antifungal substance, Illicicolin K | 16:30 - 16:50 |
| | Abstract Presenter: Christian Zimmermann, TU Wien, Vienna, Austria | |
| WS5.17 | Small RNAs-mediated fungal interactions relevant to biocontrol | 16:50 - 17:10 |
| | Abstract Presenter: Mukesh Dubey, Swedish University of Agricultural Sciences, Uppsala, Sweden | |
| | Discussion | 17:10 - 17:30 |

Workshop

15:30 - 17:30

BO 7

Genetics and interaction 2

Chairs: Riccardo Baroncelli, University of Bologna, Bologna, Italy

Chairs: Michael Thon, University of Salamanca, Salamanca, Spain

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|--------|--|---------------|
| WS6.15 | Carbon-for-nutrient exchange dynamics and mutualist reciprocity in <i>Arabidopsis thaliana</i> and <i>Colletotrichum tofieldiae</i> interactions | 15:30 - 15:50 |
| | Abstract Presenter: Johannes Gaertner, University of Cologne, Köln, Germany | |
| WS6.16 | Phyllospheric non-phytopathogenic bacteria promotes the virulence of the Brassicaceae anthracnose fungus <i>Colletotrichum higginsianum</i> | 15:50 - 16:10 |
| | Abstract Presenter: Shigeyuki Tanaka, Setsunan University, Hirakata, Japan | |
| WS6.17 | Host cell death triggered by plant immunity during the necrotrophic phase of hemibiotrophic fungal pathogen infection | 16:10 - 16:30 |
| | Abstract Presenter: Katsuma Yonehara, The University of Tokyo, Tokyo, Japan | |
| WS6.18 | A fungal transcription factor <i>CtBOT6</i> converts a beneficial root endophyte <i>Colletotrichum tofieldiae</i> into an anthracnose leaf pathogen | 16:30 - 16:50 |
| | Abstract Presenter: Ren Ujimatsu, The University of Tokyo, Tokyo, Japan | |
| | Discussion | 16:50 - 17:30 |

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Registration

16:00 - 17:30

BO 1

ECFG17

Conference Registration

Workshop

16:30 - 17:30

BO 2

Asperfest - Session V

Chairs: Eveline Snelders, Wageningen University & Research, Wageningen, Netherlands

WS1.22

FungiDB: a bioinformatics resource for facilitating data exploration, analysis, and integration for fungal and oomycete species

16:30 - 16:40

Abstract Presenter: David Roos, University of Pennsylvania, Philadelphia, United States

Bioinformatics discussion

16:40 - 17:15

Election results and the student poster prize presentation

17:15 - 17:30

Opening Ceremony

18:00 - 19:00

BO 1

Opening Ceremony and Lecture

Chairs: Özgür Bayram, Maynooth University, Maynooth, Ireland

Chairs: Kevin Kavanagh, Maynooth University, Maynooth, Ireland

OC1.1

Killer toxins and evolution of the genetic code in yeasts

18:00 - 19:00

ECFG 17 Opening Speaker: Kenneth Wolfe, University College Dublin, Dublin, Ireland

Welcome Reception

19:00 - 20:30

BO 1

Welcome Reception

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Monday, March 3, 2025

Plenary

09:00 - 10:45

BO 1

Plenary Session 1

Chairs: Kevin Kavanagh, Maynooth University, Maynooth, Ireland

Chairs: Geraldine Butler, University College Dublin, Dublin, Ireland

Opening remarks

09:00 - 09:05

PS1.1

***Aspergillus fumigatus* conidial surface-associated proteome reveals factors for fungal evasion and host immunity modulation**

09:05 - 09:45

Plenary Speaker: Gustavo Henrique Goldman, University of Sao Paulo, Brazil, Ribeirão Preto, Brazil

PS1.2

Evolution of cereal-fungal interactions

09:45 - 10:15

Plenary Speaker: Fiona Doohan, University College Dublin, Dublin, Ireland

PS1.3

Structure of fungal cell wall immune epitopes: the origins of immunity

10:15 - 10:45

Plenary Speaker: Neil Andrew Robert Gow, University of Exeter, Exeter, United Kingdom

COFFEE- BREAK

10:45 - 11:15

Break

10:45 - 11:15

BO 1

Tea and Coffee Break - Liffey A

COFFEE- BREAK

10:45 - 11:15

Plenary

11:15 - 12:45

BO 1

Plenary Session 1

Chairs: Kevin Kavanagh, Maynooth University, Maynooth, Ireland

Chairs: Geraldine Butler, University College Dublin, Dublin, Ireland

PS1.4

Evolution of fungi in chronic infections

11:15 - 11:45

Plenary Speaker: Deborah Hogan, Geisel School of Medicine at Dartmouth, Hanover, United States

PS1.5

Epigenetic Routes to Antifungal Resistance

11:45 - 12:15

Plenary Speaker: Robin Allshire, The University of Edinburgh, Edinburgh, United Kingdom

PS1.6

Genetic Mechanisms Underlying the Evolution of Nematode-Killing Apparatus in *Pleurotus ostreatus*

12:15 - 12:45

Plenary Speaker: Yen Ping Hsueh, Max Planck Institute for Biology, Tübingen, Germany

Industry / Lunch Break

12:45 - 14:00

BO 1

Lunch Break and Industry Sessions

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Other

12:45 - 13:25

BO 6

Early Career Author Lunch Workshop

Oral

14:00 - 15:30

BO 1

Diagnosis of fungal infections and mycobiomes

Chairs: Johannes Wagener, Trinity College Dublin, The University of Dublin, Dublin, Ireland

Chairs: Ilse D. Jacobsen, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany

CS 1.1.1 ***Candida albicans* strain diversity: Impact colonisation and host responses** 14:00 - 14:15

Abstract Presenter: Ilse D. Jacobsen, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany

CS 1.1.2 **Beware the air?: Exploring indoor airborne fungal communities and urban chemical pollutants** 14:15 - 14:30

Abstract Presenter: Sam Hemmings, Imperial College London, London, United Kingdom

CS 1.1.3 **Selective expression of *Pneumocystis* antigens during an outbreak** 14:30 - 14:45

Abstract Presenter: Philippe Hauser, Institute of Microbiology, Lausanne, Switzerland

CS 1.1.4 **Collateral gains and fitness trade-offs of drug resistance in *Nakaseomyces glabratus* (*Candida glabrata*)** 14:45 - 15:00

Abstract Presenter: Toni Gabaldón, Institute for Research in Biomedicine, Barcelona, Spain

CS 1.1.5 **Experimental preclinical imaging-compatible animal models of mucormycosis** 15:00 - 15:15

Abstract Presenter: Ulrike Binder, Medical University Innsbruck/Institute of Hygiene and Medical Microbiology Innsbruck, Austria

CS 1.1.6 **Fungi, flow, and resistance: what's lurking in Wales' waters?** 15:15 - 15:30

Abstract Presenter: Pooja Padmakumar, Bangor University, Bangor, United Kingdom

Oral

14:00 - 15:30

BO 2

Genomes and multiomics

Chairs: Abigail LaBella, UNC Charlotte, Charlotte, United States

CS 1.2.1 **Beyond infection: exploring the ecology of human fungal pathogens** 14:00 - 14:15

Abstract Presenter: Amelia E Barber, Friedrich Schiller University Jena, Jena, Germany

CS 1.2.2 **A pangenome analysis of structural variants and transposable elements across *Candida albicans*** 14:15 - 14:30

Abstract Presenter: Ursula Oggenfuss, University of Minnesota, Minneapolis, United States

CS 1.2.3 **Genome-wide association studies reveal adaptation mechanisms in a major wheat pathogen** 14:30 - 14:45

Abstract Presenter: Cecile Lorrain, ETH Zurich, Zurich, Switzerland

CS 1.2.4 **Investigating the host specificity of *Stemphylium vesicarium* on pear through genome and transcriptome analyses** 14:45 - 15:00

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Abstract Presenter: Xueqin Chen, University of Bologna, bologna, Italy

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|----------|---|---------------|
| CS 1.2.5 | How safe is <i>Trichoderma</i>? AI-driven genotype-phenotype insights reveal environmental adaptations and propose a biosecurity framework for agricultural applications | 15:00 - 15:15 |
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Abstract Presenter: Irina S. Druzhinina, Royal Botanic Gardens Kew, Richmond, United Kingdom

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| CS 1.2.6 | Machine learning classifiers reveal the evolutionary drivers of virulence and drug resistance in the fungal pathogen <i>Candida parapsilosis</i> | 15:15 - 15:30 |
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Abstract Presenter: Miquel Àngel Schikora Tamarit, Institute for Research in Biomedicine (IRB Barcelona), Ba Spain

Oral

14:00 - 15:30

BO 3

Antifungal resistance

Chairs: Hiroki Takahashi, Chiba University, Chiba, Japan

Chairs: Norman van Rhijn, University of Manchester, Manchester, United Kingdom

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|----------|--|---------------|
| CS 1.3.1 | Delineating the evolution of antifungal resistance evolvability in <i>Candida auris</i> | 14:00 - 14:15 |
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Abstract Presenter: Darian Santana, St. Jude Children's Research Hospital, Memphis, United States

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| CS 1.3.2 | Battling drug resistance in <i>Cryptococcus</i>: using microevolution to understand drug resistance development in a susceptible strain | 14:15 - 14:30 |
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Abstract Presenter: Diana Tamayo, University of Exeter, Exeter, United Kingdom

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|----------|---|---------------|
| CS 1.3.3 | Population genomics of the pathogenic fungus <i>Aspergillus fumigatus</i> in Japan | 14:30 - 14:45 |
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Abstract Presenter: Hiroki Takahashi, Chiba University, Chiba, Japan

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| CS 1.3.4 | Reversing antifungal resistance through protein disruption | 14:45 - 15:00 |
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Abstract Presenter: Jennifer Geddes-McAlister, University of Guelph, Guelph, Canada

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|----------|---|---------------|
| CS 1.3.5 | Nation-wide air sampling reveals land use is linked to voriconazole resistance and TR₄₆ prevalence in <i>Aspergillus fumigatus</i> in the Netherlands | 15:00 - 15:15 |
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Abstract Presenter: Bo Briggeman, Wageningen University, Wageningen, Netherlands

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|----------|--|---------------|
| CS 1.3.6 | Investigation of a novel azole-resistance mechanism in <i>Aspergillus fumigatus</i> | 15:15 - 15:30 |
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Abstract Presenter: Momotaka Uchida, Chiba University, Chiba, Japan

Oral

14:00 - 15:30

BO 4

Fungal physiology and metabolism

Chairs: Gary Jones, Leeds Beckett University, Leeds, United Kingdom

Chairs: Chris Koon Ho Wong, University of Macau, Taipa, Macau, China

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|----------|---|---------------|
| CS 1.4.1 | Gene expression dynamics associated with the developmental processes of conidial germination and polar growth in filamentous fungi | 14:00 - 14:15 |
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Abstract Presenter: Viola Halder, Yale University, New Haven, United States

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CS 1.4.2	Mechanistic aspects of the combinatorial growth inhibition of <i>Aspergillus fumigatus</i>	14:15 - 14:30
	Abstract Presenter: Sean Doyle, Maynooth University, Maynooth, Ireland	
CS 1.4.3	Dissecting the genetic machinery of aryl hydrocarbon receptor (AhR) agonist production in the skin commensal yeast <i>Malassezia</i>	14:30 - 14:45
	Abstract Presenter: Giuseppe Ianiri, University of Molise, Campobasso CB, Italy	
CS 1.4.4	A rewired transcription factor in <i>Candida albicans</i> and its role in regulating sulfur metabolism and tolerance to reactive sulfur species	14:45 - 15:00
	Abstract Presenter: Anagha Menon CHEPPANAKOZHUMMAL THAZHATHIDAM, Université de Montréal, Montréal, Canada	
CS 1.4.5	RNA-binding protein complex regulated specialized secondary metabolites contribute to fungal virulence	15:00 - 15:15
	Abstract Presenter: Wen-Bing Yin, State Key Laboratory of Mycology, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China	
CS 1.4.6	Novel insights into endogenous biotinylation in fungi	15:15 - 15:30
	Abstract Presenter: Zhiqiang Dong, University of Macau, Macau, China	
<i>Oral</i>		
14:00 - 15:30		BO 5
Biocontrol of fungal infections		
Chairs: Helen Grogan, Agriculture and Food Development Authority, Carlow, Ireland		
Chairs: Susanne Zeilinger, University of Innsbruck, Innsbruck, Austria		
CS 1.5.1	Developing RNAi-based fungicides to control fusarium head blight	14:00 - 14:15
	Abstract Presenter: Stephen Robinson, Agriculture Canada, Saskatoon, Canada	
CS 1.5.2	Small RNAs-mediated fungal interactions relevant to biocontrol	14:15 - 14:30
	Abstract Presenter: Mukesh Dubey, Swedish University of Agricultural Sciences, Uppsala, Sweden	
CS 1.5.3	Integrating <i>Trichoderma gamsii</i> T6085 and <i>Clonostachys rosea</i> IK726 to enhance Fusarium Head Blight control in wheat	14:30 - 14:45
	Abstract Presenter: Arianna Petrucci, University of Pisa, Pisa, Italy	
CS 1.5.4	A secondary metabolite from <i>Beauveria bassiana</i> reprograms root exudate recognition and virulence in <i>Fusarium oxysporum</i>	14:45 - 15:00
	Abstract Presenter: Marta Ranesi, Università degli Studi di Napoli Federico II (Napoli), Portici, Italy	
CS 1.5.5	The decision for or against mycoparasitic attack by <i>Trichoderma</i> spp. is taken already at a distance in a prey-specific manner and benefits plant-beneficial interactions	15:00 - 15:15
	Abstract Presenter: J. Philipp Benz, Technical University of Munich, Freising, Germany	
CS 1.5.6	Insights into 6-Pentyl-α-Pyrone biosynthesis in <i>Trichoderma atroviride</i>	15:15 - 15:30
	Abstract Presenter: Alexander Eschlböck, University of Innsbruck, Innsbruck, Austria	

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Oral

14:00 - 15:30

BO 6

Human/animal pathogens

Chairs: Sven Krappmann, University Hospital Erlangen and Friedrich-Alexander University (FAU) Erlangen-Nürnberg, Institute of Clinical Microbiology, Immunology and Hygiene, Erlangen, Germany

Chairs: Gary Moran, Dublin Dental University Hospital, Dublin, Ireland

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|----------|---|---------------|
| CS 1.6.1 | Caught in the air: rethinking fungal virulence through the lens of exposure | 14:00 - 14:15 |
| | Abstract Presenter: Eveline Snelders, Wageningen University & Research, Wageningen, Netherlands | |
| CS 1.6.2 | Dysbalance of the murine lung microbiome by the human pathogenic fungus <i>Aspergillus fumigatus</i> | 14:15 - 14:30 |
| | Abstract Presenter: Liubov Nikitashina, Leibniz Institute for Natural Product Research and Infection Biology - Knöll Institute, Jena, Germany | |
| CS 1.6.3 | Role of secretory proteins and pathways in the pathogenicity of <i>Aspergillus fumigatus</i> | 14:30 - 14:45 |
| | Abstract Presenter: Johanna Gosciniak, University of Exeter, Exeter, United Kingdom | |
| CS 1.6.4 | Study of the value of NL1 as an anti-persulfidation and anti-virulence compound in <i>Aspergillus fumigatus</i> | 14:45 - 15:00 |
| | Abstract Presenter: Jorge Amich, Instituto de Salud Carlos III, Majadahonda, Spain | |
| CS 1.6.5 | Evolutionary significance of fungal hypermutation | 15:00 - 15:15 |
| | Abstract Presenter: Johanna Rhodes, University of Birmingham, Birmingham, United Kingdom | |
| CS 1.6.6 | The Kynurenine Pathway is required for virulence in <i>Cryptococcus neoformans</i> through mitochondrial contributions | 15:15 - 15:30 |
| | Abstract Presenter: Christopher WJ Lee, University of British Columbia, Vancouver, Canada | |

Break

15:30 - 16:00

BO 1

Tea and Coffee Break - Liffey A

Oral

16:00 - 17:30

BO 1

Plant pathogenic fungi

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|----------|--|---------------|
| CS 1.7.1 | Virulence of banana wilt-causing fungal pathogen <i>Fusarium oxysporum</i> tropical race 4 is mediated by nitric oxide biosynthesis and accessory genes | 16:00 - 16:15 |
| | Abstract Presenter: Yong Zhang, Georgia Southern University, Statesboro, United States | |
| CS 1.7.2 | Identification and characterization of a large multigene family of cooperating effector genes facilitating cell-to-cell mobility conserved in Dothideomycetes and Sordariomycetes | 16:15 - 16:30 |
| | Abstract Presenter: Isabelle Fudal, INRAE, Palaiseau, France | |
| CS 1.7.3 | Elucidating population structure, genetic diversity and host specificity of <i>Alternaria alternata</i> from diverse regions and wild and domestic host plants | 16:30 - 16:45 |
| | Abstract Presenter: Gonne Clasen, Christian-Albrechts-University Kiel, Kiel, Germany | |

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CS 1.7.4	DNA repair mechanisms generate cryptic diversity in the invasive oomycete pathogen <i>Phytophthora ramorum</i>	16:45 - 17:00
	Abstract Presenter: Jared LeBoldus, Oregon State University, Corvallis, United States	
CS 1.7.5	Lem2-mediated tethering of telomeres to the nuclear periphery is essential for <i>Ustilago maydis</i> pathogenesis	17:00 - 17:15
	Abstract Presenter: Ramón Ramos Barrales, Universidad Pablo de Olavide/ Centro Andaluz de Biología del De Sevilla, Spain	
CS 1.7.6	Dihydroxyhexanoic acid biosynthesis controls turgor in pathogenic fungi	17:15 - 17:30
	Abstract Presenter: Naoyoshi Kumakura, RIKEN, Yokohama, Japan	
<i>Oral</i>		
16:00 - 17:30		BO 2
Genomes and multiomics		
Chairs: Jennifer Geddes-McAlister, University of Guelph, Guelph, Canada		
Chairs: Abigail LaBella, UNC Charlotte, Charlotte, United States		
CS 1.2.7	Clade-wide exploration of small RNA loci and machinery shows distinct RNAi systems across fungi	16:00 - 16:15
	Abstract Presenter: Nathan Johnson, Universidad Mayor, Santiago, Chile	
CS 1.2.8	A comparative analysis of transposable elements in the subphylum Pucciniomycotina reveals a massive retrotransposon-driven expansion in the genomes of rust fungi	16:15 - 16:30
	Abstract Presenter: Emma CORRE, INRAE, Champenoux, France	
CS 1.2.9	Exploring mucoromycota and endosymbiont diversity and biology using whole genome based life identification numbers	16:30 - 16:45
	Abstract Presenter: Hayden Johnson, Oregon State University, Corvallis, United States	
CS 1.2.10	Transposable elements on the move: horizontal transfer of transposable elements in fungi	16:45 - 17:00
	Abstract Presenter: Josje Romeijn, Utrecht University, Utrecht, Netherlands	
CS 1.2.11	Integration of dual multi-omics data reveals important pathways involved in the host-pathogen interactions of <i>Candida albicans</i> in context of the vaginal microenvironment	17:00 - 17:15
	Abstract Presenter: Kshitija Rahate, ICMR-National Institute for Research in Reproductive and Child Health, M India	
CS 1.2.12	Coordinated adaptation of gene families has shaped the genome of dimorphic fungi	17:15 - 17:30
	Abstract Presenter: Ghizlane Tahiri, University of Murcia, Murcia, Spain	
<i>Oral</i>		
16:00 - 17:30		BO 3
Antifungal resistance		
Chairs: Hiroki Takahashi, Chiba University, Chiba, Japan		
Chairs: Norman van Rhijn, University of Manchester, Manchester, United Kingdom		
CS 1.3.7	Multi-drug resistance in the fungal wheat pathogen <i>Zymoseptoria</i>	16:00 - 16:15

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***tritici*: a hint to complex mechanisms**

Abstract Presenter: Sabine Fillinger, INRAE, Palaiseau, France

CS 1.3.8	Effects of synonymous and nonsynonymous Cyp51 mutations on DMI resistance in <i>Cercospora beticola</i>	16:15 - 16:30
	Abstract Presenter: Melvin Bolton, U.S. Dept. Agriculture, Fargo, United States	
CS 1.3.9	Characterisation of the antifungal effects of manogepix on the human-pathogenic mould <i>Aspergillus fumigatus</i>	16:30 - 16:45
	Abstract Presenter: Sean Brazil, Trinity College Dublin, Dublin, Ireland	
CS 1.3.10	Understanding of primary resistance to echinocandin in <i>Mucor</i>	16:45 - 17:00
	Abstract Presenter: Soo Chan Lee, Texas Tech University Health Science Center, Lubbock, United States	
CS 1.3.11	High-throughput identification of genetic factors driving tissue invasion in <i>Aspergillus fumigatus</i> through an integrated <i>in vitro</i> and <i>ex vivo</i> screening platform	17:00 - 17:15
	Abstract Presenter: Shi Ying Tang, Manchester Metropolitan University, Manchester, United Kingdom	
CS 1.3.12	Dectisomes increase efficacy of antifungal drugs by targeting fungal polysaccharides	17:15 - 17:30
	Abstract Presenter: Zachary Lewis, University of Georgia, Athens, United States	

Oral

16:00 - 17:30

BO 4

Fungal physiology and metabolism

Chairs: Gary Jones, Leeds Beckett University, Leeds, United Kingdom

Chairs: Chris Koon Ho Wong, University of Macau, Taipa, Macau, China

CS 1.4.7	Withdrawn	16:00 - 16:15
CS 1.4.8	Trichoderma reesei QM6a harbors an endohyphal Methylobacterium, which impacts carbohydrate degradation and growth in light	16:15 - 16:30
	Abstract Presenter: Monika Schmoll, AIT Austrian Institute of Technology GmbH, Tulln, Austria	
CS 1.4.9	Multi-omics analyses reveal divergent molecular mechanisms underlying plant biomass conversion of five fungi	16:30 - 16:45
	Abstract Presenter: Mao Peng, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
CS 1.4.10	Understanding and harnessing the carbon catabolic potential of <i>Fomes fomentarius</i> for industrial applications	16:45 - 17:00
	Abstract Presenter: Anna Sofia Birke, Technical University Berlin, Berlin, Germany	
CS 1.4.11	Bioconversion of wood and lignocelluloses by fungi of <i>Basidiomycota</i> and consortia: sustainable solutions for production of metabolites, bioethanol and bioactive natural compounds	17:00 - 17:15
	Abstract Presenter: Taina Lundell, University of Helsinki, Helsinki, Finland	
CS 1.4.12	<i>Colletotrichum orbiculare</i> as a fungal model for Niemann-Pick Type C autosomal recessive lysosomal disorder	17:15 - 17:30
	Abstract Presenter: Yasuyuki Kubo, Setsunan University, Hirakata, Japan	

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Oral

16:00 - 17:30

BO 5

Biocontrol of fungal infections

Chairs: Helen Grogan, Agriculture and Food Development Authority, Carlow, Ireland

Chairs: Susanne Zeilinger, University of Innsbruck, Innsbruck, Austria

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|-----------|--|---------------|
| CS 1.5.7 | The new frontier of biocontrol: breeding for biologicals and microbiome resilience | 16:00 - 16:15 |
| | Abstract Presenter: Laura Grenville-Briggs Didymus, Swedish University of Agricultural Sciences, Alnarp, Sweden | |
| CS 1.5.8 | Exploring the anticancer potential of recombinant fungal defensin-like peptides from <i>Aspergillus udagawae</i> and <i>Hyaloscypha hepaticicola</i>: production, characterization, and mechanistic insights into oligomerization | 16:15 - 16:30 |
| | Abstract Presenter: Betul GUNDOGDU, Acibadem University, Istanbul, Turkey | |
| CS 1.5.9 | Discussion | 16:30 - 16:45 |
| CS 1.5.10 | When the pathogen becomes the prey: responses of <i>Botrytis cinerea</i> to mycoparasitism | 16:45 - 17:00 |
| | Abstract Presenter: Florian Rocher, Swedish University of Agricultural Sciences, Alnarp, Sweden | |
| CS 1.5.11 | <i>Bacillus velezensis</i>: a potential biocontrol agent against <i>Rhizopus microsporus</i>, a fungus causing tomato fruit infections | 17:00 - 17:15 |
| | Abstract Presenter: Teresa Pawlowska, Cornell University, Ithaca, United States | |
| CS 1.5.12 | The sugarbeet phyllosphere harbors bacteria capable of inhibiting <i>Cercospora beticola</i>, the causal agent of <i>Cercospora</i> leaf spot | 17:15 - 17:30 |
| | Abstract Presenter: Madison Christenson, North Dakota State University, Fargo, United States | |

Oral

16:00 - 17:30

BO 6

Human/animal pathogens

Chairs: Sven Krappmann, University Hospital Erlangen and Friedrich-Alexander University (FAU) Erlangen-Nürnberg, Institute of Clinical Microbiology, Immunology and Hygiene, Erlangen, Germany

Chairs: Gary Moran, Dublin Dental University Hospital, Dublin, Ireland

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|-----------|--|---------------|
| CS 1.6.7 | Coccidioidomycosis, climate change, and risk for future outbreaks | 16:00 - 16:15 |
| | Abstract Presenter: Bridget Barker, Northern Arizona University, Flagstaff, United States | |
| CS 1.6.8 | Host brain environment triggers RNAi epimutation in the human pathogen <i>Mucor circinelloides</i> | 16:15 - 16:30 |
| | Abstract Presenter: Maribel Navarro-Mendoza, Duke University, Durham, United States | |
| CS 1.6.9 | Xenosiderophore transporter gene expression and clade-specific filamentation in <i>Candida auris</i> killifish infection | 16:30 - 16:45 |
| | Abstract Presenter: Hugh Gifford, University of Exeter, Exeter, United Kingdom | |
| CS 1.6.10 | Mechanisms of evolution of transcription regulation in the fungal lineage | 16:45 - 17:00 |
| | Abstract Presenter: Megan Garber, UCSF, San Francisco, United States | |
| CS 1.6.11 | Fungal glycogen contributes to <i>Candida albicans</i> β-(1\rightarrow3)-glucan masking, immune activation, and oral commensalism | 17:00 - 17:15 |

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Abstract Presenter: Brian Peters, University of Tennessee Health Science Center, Memphis, United States

CS 1.6.12 **Clade-specific deletion of *TLO* genes in *Candida albicans* in *AGO1*⁺ and *Ago1*⁻ backgrounds** 17:15 - 17:30

Abstract Presenter: Abed Alkarem Abu Al Haija, Dublin Dental University Hospital, Dublin, Ireland

Posters

17:30 - 19:00

Fungal physiology and metabolism

P1.401 **A mutation in the 3'-downstream of *Pleurotus ostreatus roc1* is responsible for high production of cellulose-degrading enzymes** 17:30 - 17:30

Abstract Presenter: Takehito Nakazawa, Kyoto University, Kyoto, Japan

P1.402 **Roles for heterotrimeric G-proteins and adenylyl cyclase in transcriptional control of cellulase gene expression in *Neurospora crassa*** 17:30 - 17:30

Abstract Presenter: Katherine Borkovich, University of California, Riverside, Riverside, United States

P1.403 **Organic acid utilization by *Aspergillus niger*** 17:30 - 17:30

Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands

P1.404 **Need for sweet: exploring the how and why of erythritol biosynthesis in fungi** 17:30 - 17:30

Abstract Presenter: Felicia Zlati, Forschungszentrum Jülich, Jülich, Germany

P1.405 **Phenotypic and transcriptomic analysis of bZIP transcription factors in *Aspergillus nidulans*** 17:30 - 17:30

Abstract Presenter: Beatrix Kocsis, University of Debrecen, Debrecen, Hungary

P1.406 **Functional and physiological characterization of polyol transporters of *Aspergillus niger*** 17:30 - 17:30

Abstract Presenter: Christina Lyra, Aalto University, Espoo, Finland

P1.407 **Starch metabolism ability is variable between genera of anaerobic gut fungi: effective degrader *Neocallimastix frontalis* employs multiple degradative enzymes** 17:30 - 17:30

Abstract Presenter: Louisa Edge, Scotland's Rural College, Edinburgh, United Kingdom

P1.408 **Adsorption of cutinase CutL1 to the Langmuir membrane of hydrophobin RolA derived from the fungus *Aspergillus oryzae*** 17:30 - 17:30

Abstract Presenter: Keietsu Abe, Tohoku University, Sendai, Japan

P1.409 **Exploring the role of *Candida albicans* Rap1 in iron homeostasis, azole resistance and virulence** 17:30 - 17:30

Abstract Presenter: Wei Luen Huang, Institute of Molecular and Cellular Biology, National Tsing Hua University, Hsinchu, Taiwan, China

P1.410 **Identification of the key enzymatic genes of *Penicillium camemberti* responsible for the development and ripening of mould-ripened cheeses** 17:30 - 17:30

Abstract Presenter: Asaph Kuria, University of Nottingham, Nottingham, United Kingdom

P1.411 **Ace3 of the white-rot fungus *Dichomitus squalens* regulates** 17:30 - 17:30

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cellulose degradation and utilization through cellobiose induction

Abstract Presenter: Victor Manuel Gonzalez Ramos, Aalto University, Helsinki, Finland

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|--------|---|---------------|
| P1.412 | Diversity of iron uptake systems and their roles in the skin fungus <i>Malassezia</i> | 17:30 - 17:30 |
| | Abstract Presenter: Minseok Bae, Chung-Ang University, Anseong, Korea, Republic of | |
| P1.413 | Role of the sugar transporter Tr44175 in cellulase induction in <i>Trichoderma reesei</i> | 17:30 - 17:30 |
| | Abstract Presenter: Lucas Matheus Soares Pereira, University of São Paulo, Ribeirão Preto, Brazil | |
| P1.414 | The PacC transcription factor responds in a carbon source specific manner in <i>Aspergillus niger</i> and <i>Aspergillus nidulans</i> | 17:30 - 17:30 |
| | Abstract Presenter: Astrid Müller, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands | |
| P1.415 | Functional characterization of the saccharopine dehydrogenase LYS1 from filamentous fungi relevant for solid-state plant food fermentation | 17:30 - 17:30 |
| | Abstract Presenter: Tomás Vellozo-Echevarría, Technical University of Denmark, Kgs. Lyngby, Denmark | |
| P1.416 | Re-evaluating the fungal D-glucuronic acid pathway | 17:30 - 17:30 |
| | Abstract Presenter: Nooshin Rahnama, Westerdijk Fungal Biodiversity Institute & Fungal Molecular Physiology, Utrecht, Netherlands | |
| P1.417 | Exploring variations and similarities between <i>Serpula lacrymans</i> isolates | 17:30 - 17:30 |
| | Abstract Presenter: Katharina Russ, Universität Innsbruck, Innsbruck, Austria | |
| P1.418 | Environmental impacts on secondary metabolite production and differential gene expression in the amphibian gut fungus <i>Basidiobolus</i> | 17:30 - 17:30 |
| | Abstract Presenter: Kimberly Syring, Oregon State University, Corvallis, United States | |
| P1.419 | Identification of potential regulators of the transcription factor AmyR using the screening method based on growth defects caused by <i>brlA</i> overexpression in <i>Aspergillus nidulans</i> | 17:30 - 17:30 |
| | Abstract Presenter: Katsuya Gomi, Tohoku University, Sendai, Japan | |
| P1.420 | Mutation of nitrogen source assimilation in industrial strains of <i>Aspergillus oryzae</i> | 17:30 - 17:30 |
| | Abstract Presenter: Ken-Ichi Kusumoto, Osaka University, Suita, Japan | |
| P1.421 | Characterization of a new glycerol transporter GlpA from <i>Aspergillus niger</i> | 17:30 - 17:30 |
| | Abstract Presenter: Liinu Nummela, Aalto University, Espoo, Finland | |
| P1.422 | Regulation of itaconic acid accumulation by the extracellular phosphate ion concentration in <i>Aspergillus terreus</i> | 17:30 - 17:30 |
| | Abstract Presenter: Levente Karaffa, University of Debrecen, Debrecen, Hungary | |
| P1.423 | Dissection of the septal pore apparatus in the agaricomycete <i>Coprinopsis cinerea</i> | 17:30 - 17:30 |
| | Abstract Presenter: Blanka Sokolowska, ETH Zurich, Zurich, Switzerland | |
| P1.424 | The mechanisms behind <i>Aspergillus fumigatus</i> augmented | 17:30 - 17:45 |

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virulence upon pollution exposure

Abstract Presenter: João Jorge, Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Oeiras, Portugal

P1.425 **Deciphering the fungal-fungal and fungal-bacterial interactions in wood decay using omics approach** 17:45 - 18:00

Abstract Presenter: Maryam Qurashi, University of Helsinki, Helsinki, Finland

P1.426 **Regulation of the citrate exporter-encoding *cexA* during *Aspergillus niger* citric acid fermentation** 18:00 - 18:15

Abstract Presenter: Levente Karaffa, University of Debrecen, Debrecen, Hungary

Posters

17:30 - 19:00

Biocontrol of fungal infections

P1.501 **Homothallic or heterothallic: a genomic investigation into the sexual capabilities of *Clonostachys rosea*** 17:30 - 17:30

Abstract Presenter: Magnus Karlsson, Swedish University of Agricultural Sciences, Uppsala, Sweden

P1.502 **Metabolite-mediated interactions of the mycoparasitic fungus *Trichoderma atroviride* with plant pathogenic and plant beneficial microbes** 17:30 - 17:30

Abstract Presenter: Susanne Zeilinger, University of Innsbruck, Innsbruck, Austria

P1.503 **Characterization of the antifungal effect of *Bacillus amyloliquefaciens* against *Fusarium oxysporum*** 17:30 - 17:30

Abstract Presenter: Aurora Yáñez-Vilches, Universidad de Córdoba, Córdoba, Spain

P1.504 **Effect of volatile organic compounds from bacterial biocontrol agents against the tomato vascular wilt pathogen *Fusarium oxysporum*** 17:30 - 17:30

Abstract Presenter: Carmen Ruiz Roldán, University of Cordoba, Faculty of Sciences, Cordoba, Spain

P1.505 **Mycovirus infections of *Aspergillus fumigatus* are common** 17:30 - 17:30

Abstract Presenter: Ben Auxier, Wageningen University & Research, Wageningen, Netherlands

P1.506 **Biological control of *Colletotrichum acutatum* with endophytic bacteria from olive drupes** 17:30 - 17:30

Abstract Presenter: Anastasia G. Papageorgiou, Agricultural University of Athens, Athens, Greece

P1.507 **Endophytic bacteria from olive drupes as plant defense inducers against *Colletotrichum acutatum* in olive trees** 17:30 - 17:30

Abstract Presenter: Anastasia G. Papageorgiou, Agricultural University of Athens, Athens, Greece

P1.508 **Innovative low-cost biopolymers from *Ixora coccinea* extracts: a new approach to antifungal control** 17:30 - 17:30

Abstract Presenter: Pilar Solis-Manrique, Tecnológico Nacional de México, Campus Mérida, Mérida, Mexico

P1.509 **Elucidating the role of oxidative stress-responsive genes in the biocontrol activity of *Papillotrema terrestris*** 17:30 - 17:30

Abstract Presenter: Giuseppe Barone, University of Molise, Campobasso, Italy

P1.510 **The bioactive substances as an alternative for synthetic fungicides** 17:30 - 17:30

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and their impact on the diversity of soil fungi

Abstract Presenter: Patrycja Tarnawska, Nicolaus Copernicus University, Toruń, Poland

- P1.511 **Fungicidal properties of phenolic compounds against phytopathogenic fungi** 17:30 - 17:30

Abstract Presenter: Krystyna Pałubicka, Nicolaus Copernicus University, Toruń, Poland

- P1.512 **Phenolic compounds as an alternative to fungicides for ground cucumber (*Cucumis sativus* L.)** 17:30 - 17:30

Abstract Presenter: Katarzyna Dembińska, Nicolaus Copernicus University, Toruń, Poland

- P1.513 **Trimesan, an exo-polisaccharide from *Trametes versicolor*, as resistance inducer in *Arabidopsis thaliana*** 17:30 - 17:30

Abstract Presenter: Giovanna Gramegna, Sapienza Università di Roma, Rome, Italy

- P1.514 **Biocontrol of phytopathogenic fungi using wild cyanobacteria biomass** 17:30 - 17:30

Abstract Presenter: Daiva Burokienė, Nature Research Centre, Vilnius, Lithuania

- P1.515 **Exploring biocontrol potential of non-aflatoxigenic *Aspergillus flavus* isolates in aflatoxins mitigation: Insights into population dynamics and genetic profiles** 17:30 - 17:30

Abstract Presenter: Maria Varveri, Agricultural University of Athens, Athens, Greece

- P1.516 **Endophytic mycobiome of conifer trees promotes seedling growth and mitigates negative effects of root and stem rot pathogen (*Heterobasidion* spp.)** 17:30 - 17:30

Abstract Presenter: Fred Asiegbu, University of Helsinki, Helsinki, Finland

- P1.517 **Transcriptional dynamics of carbohydrate-active enzymes in the mycoparasite *Clonostachys rosea*** 17:30 - 17:30

Abstract Presenter: Lea Atanasova, University of Natural Resources and Life Sciences, Vienna (BOKU), Vienna

- P1.518 **Exploring the evolution of biocontrol yeast *Aureobasidium pullulans* across Europe: a multi-locus analysis** 17:30 - 17:30

Abstract Presenter: Nataliia Khomutovska, Swedish University of Agricultural Sciences, Lomma, Sweden

Posters

17:30 - 19:00

Poster Session 1

Posters

17:30 - 19:00

Human/animal pathogens

- P1.601 **The development of a Tet-off system in *Mucorales* unveils the crucial role of DNA 6mA in pathogenesis** 17:30 - 17:30

Abstract Presenter: Carlos Lax, University of Murcia, Murcia, Spain

- P1.602 **Identification and characterization of compounds that inhibit *Candida albicans* morphogenesis** 17:30 - 17:30

Abstract Presenter: Nicola Case, University of Toronto, Toronto, Canada

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P1.603	Comparative genomic and phenotypic analysis of <i>Candida albicans</i> strains isolated from different niches within the human body	17:30 - 17:30
	Abstract Presenter: Piyapat Rintarhat, Chung-Ang University, Anseong, Korea, Republic of	
P1.604	Understanding <i>Rhizopus</i> virulence in mucormycosis	17:30 - 17:30
	Abstract Presenter: Andreas Guerrero, Oregon State University, Corvallis, United States	
P1.605	Elucidating the antifungal modes of action of G-quadruplex-stabilising ligands in <i>A. fumigatus</i>	17:30 - 17:30
	Abstract Presenter: Isabelle Storer, University of East Anglia, Norwich, United Kingdom	
P1.606	Impact of multi-fungicide resistance on the fitness of <i>Aspergillus fumigatus</i>	17:30 - 17:30
	Abstract Presenter: Spyros KANELLOPOULOS, Wageningen Univeristy, Wageningen, Netherlands	
P1.607	Genetic and phenotypic diversification of <i>Aspergillus fumigatus</i> during persistent infection	17:30 - 17:30
	Abstract Presenter: Saho Shibata, Medical Mycology Research Center, Chiba University, Chiba, Japan	
P1.608	Translation regulation in response to host stresses in the pathogenic yeast <i>Candida glabrata</i>	17:30 - 17:30
	Abstract Presenter: Aishwarya Rana, Regional Centre For Biotechnology, Faridabad, India	
P1.609	Endoplasmic Reticulum function contributes to caspofungin tolerance in <i>Cryptococcus neoformans</i>	17:30 - 17:30
	Abstract Presenter: Xianya Qu, Michael Smith Laboratories, University of British Columbia, Vancouver, Canada	
P1.610	G-quadruplexes as novel antifungal targets	17:30 - 17:30
	Abstract Presenter: Georgie Middleton, University of East Anglia, Norwich, United Kingdom	
P1.611	<i>Aspergillus fumigatus</i> conidial surface-associated proteome reveals factors for fungal evasion and host immunity modulation	17:30 - 17:30
	Abstract Presenter: Thaila Reis, University of Sao Paulo, Ribeirao Preto, Brazil	
P1.612	Biological boundary conditions regulate the internalization of <i>Aspergillus fumigatus</i> conidia by alveolar cells	17:30 - 17:30
	Abstract Presenter: Natalia Schiefermeier-Mach, Health University of Applied Sciences Tyrol/FH Gesundheit T Innsbruck, Austria	
P1.613	Antifungal mode of action of NFAP2 in <i>Candida albicans</i> based on transcriptomic data	17:30 - 17:30
	Abstract Presenter: Kinga Dán, University of Szeged, Szeged, Hungary	
P1.614	Comparative genomic and phenotypic analysis of <i>Candida albicans</i> strains isolated from different niches within the human body	17:30 - 17:30
	Abstract Presenter: Piyapat Rintarhat, Chung-Ang University, Anseong, Korea, Republic of	
P1.615	<i>Aspergillus</i> species epidemiology is driven by climate, soil and fungicides	17:30 - 17:30
	Abstract Presenter: Thomas Easter, University of Manchester, Manchester, United Kingdom	
P1.616	The role of rhizoferrin in growth and virulence of <i>Rhizopus microsporus</i>	17:30 - 17:45
	Abstract Presenter: Jakob Scheler, Medical University Innsbruck, Innsbruck, Austria	

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- P1.617 **Deciphering the interactions between *Candida albicans* biofilm, extracellular vesicles, and antifungal treatment** 17:45 - 17:45
Abstract Presenter: Justyna Karkowska-Kuleta, Jagiellonian University, Krakow, Poland

Posters

17:30 - 19:00

Diagnosis of fungal infections and mycobiomes

- P1.101 **Proteome analysis of programmed cell death in *Aspergillus fumigatus* conidia** 17:30 - 17:30
Abstract Presenter: Thorsten Heinekamp, Leibniz Institute for Natural Product Research and Infection Biology Germany
- P1.102 **Testing the role of the strawberry plant phyllosphere mycobiome in enhancing resistance to phytopathogenic fungi** 17:30 - 17:30
Abstract Presenter: Sofie Friedrich, TU Braunschweig, Braunschweig, Germany
- P1.103 **Immunoassay to detect urinary siderophore Triacetylfusarinine-C (TAFC) as a diagnostic biomarker of Invasive Aspergillosis** 17:30 - 17:30
Abstract Presenter: Kieran Walshe, Maynooth University, Maynooth, Ireland

Posters

17:30 - 19:00

Genomes and multiomics

- P1.201 **A near-complete telomere-to-telomere genome assembly for *Batrachochytrium dendrobatidis* GPL JEL423 reveals a CBM18 gene family expansion and a M36 metalloprotease gene family contraction** 17:30 - 17:30
Abstract Presenter: Nicolas Helmstetter, University of Exeter, Exeter, United Kingdom
- P1.202 **Multi-omics analysis of a fungal cell factory producing recombinant enzyme controlled by a constitutive or inducible promoter** 17:30 - 17:30
Abstract Presenter: Lana OHara Souza Silva, UNICAMP, Campinas, Brazil
- P1.203 **Reference pangenomes improve 'omics analysis of fungi by capturing their genetic diversity: a demonstration from *Aspergillus fumigatus*** 17:30 - 17:30
Abstract Presenter: Marion Perrier, Friedrich Schiller University, Jena, Germany
- P1.204 **Taxogenomic analysis reveals the reticulate evolution of the genus *Trichoderma*** 17:30 - 17:30
Abstract Presenter: Feng Cai, Sun Yat-sen University, Shenzhen, China
- P1.205 **Evolutionary arms race between a yeast homing genetic element and its genomic target** 17:30 - 17:30
Abstract Presenter: Matthieu Osborne, Conway Institute, University College Dublin., Dublin, Ireland
- P1.206 **Comprehensive genomic and proteomic analysis of a novel *Lindgomycetaceae* species** 17:30 - 17:30
Abstract Presenter: Melania Pilz, Technical University of Munich, Garching, Germany
- P1.207 **Novel insights into the mode of action of the antifungal protein** 17:30 - 17:30

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	PeAfpA against <i>P. digitatum</i> revealed by high-throughput analysis	
	Abstract Presenter: Carolina Ropero Pérez, Instituto de Agroquímica y Tecnología de Alimentos (IATA), Consejo Superior de Investigaciones Científicas (CSIC), Paterna (Valencia), Spain	
P1.208	Genome-wide structural variants uncover strain-specific genes linked to pathogenicity in <i>Colletotrichum graminicola</i>	17:30 - 17:30
	Abstract Presenter: Michael Thon, University of Salamanca, Salamanca, Spain	
P1.209	Zymocin-like killer toxin gene clusters in the nuclear genomes of filamentous fungi	17:30 - 17:30
	Abstract Presenter: Padraic G. Heneghan, Conway Institute, University College Dublin, Belfield, Ireland	
P1.210	Using multi-omics to establish how a change of diet affects anaerobic gut fungi and the wider gut microbiome of Jersey cows	17:30 - 17:30
	Abstract Presenter: Susana Moñino Ramos, Scotland's Rural College, Edinburgh, United Kingdom	
P1.212	A systematic screen for genetic factors underpinning transposon defense systems across the fungal kingdom	17:30 - 17:30
	Abstract Presenter: Thomas Badet, University of Neuchâtel, Neuchâtel, Switzerland	
P1.213	Investigating the strain diversity in <i>Cryptococcus neoformans</i> using pangenomic analysis	17:30 - 17:30
	Abstract Presenter: Claire Reichardt, University of Georgia, Athens, United States	
P1.214	Polyphasic approach revealed the genomic and phenotypic variation across the supreme plant biomass degradation genus <i>Trichoderma</i>	17:30 - 17:30
	Abstract Presenter: Peijie Chen, Nanjing Agricultural University, Nanjing, China	
P1.215	Discovery of novel fungal carbon metabolic enzymes through transfer learning	17:30 - 17:30
	Abstract Presenter: Mao Peng, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
P1.216	1000 fungal proteins project	17:30 - 17:30
	Abstract Presenter: James Evans, Pacific Northwest National Laboratory, Richland, United States	
P1.217	Transposable elements are transcriptionally deregulated upon horizontal chromosome transfer in an entomopathogenic fungus	17:30 - 17:30
	Abstract Presenter: Michael Habig, Kiel University, Kiel, Germany	
P1.218	Co-evolution of biological processes as revealed by whole genus genome sequencing of <i>Aspergillus</i>	17:30 - 17:30
	Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
P1.219	Population genomics of the yeast <i>Kluyveromyces marxianus</i> reveals no geographical stratification and incipient speciation	17:30 - 17:30
	Abstract Presenter: Eugenio Mancera, Cinvestav, Irapuato, Mexico	
P1.220	Integrating evolutionary genomics and experimental approaches to understand endophytism in entomopathogenic fungi	17:30 - 17:30
	Abstract Presenter: Alexandra Kortsinoglou, National and Kapodistrian University of Athens, Athens, Greece	
P1.221	Towards a mechanistic understanding of fungus-growing ant coevolution	17:30 - 17:30
	Abstract Presenter: Jacoby Robinson, Emory University, Atlanta, United States	

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P1.222	Coupling genome-wide positive selection analysis with transcriptomics to infer molecular bases of the <i>Rhizopus microsporus</i> - <i>Mycetohabitans</i> symbiosis	17:30 - 17:30
	Abstract Presenter: Margaret Branine, Cornell University, Ithaca, United States	
P1.223	Comparative genomics of <i>Cryptococcus</i> and <i>Kwoniella</i> reveals karyotype dynamics and suggests evolutionary mechanisms of pathogenesis	17:30 - 17:30
	Abstract Presenter: Marco A. Dias Coelho, Duke University Medical Center, Durham, United States	
P1.224	Unraveling the evolutionary history of genetically diverged lineages of <i>Colletotrichum graminicola</i>	17:30 - 17:30
	Abstract Presenter: Michael Thon, University of Salamanca, Salamanca, Spain	
P1.225	Meta-analysis of <i>Pleurotus ostreatus</i> transcriptomes: transcriptomic profiles and efforts in basidiomycete fungi	17:30 - 17:30
	Abstract Presenter: Antonio G. Pisabarro, Public University of Navarre (UPNA), Pamplona, Spain	
P1.226	Withdrawn	17:30 - 17:30
P1.227	Whole genome sequencing of <i>Candida glabrata</i> and <i>Candida albicans</i> for detection of resistance mutations against Echinocandins	17:30 - 17:30
	Abstract Presenter: Fanny Wegner, Institute of Medical Microbiology, University of Zurich, Zurich, Switzerland	
P1.228	Overestimation of proteome provides insights into transposable element landscape in <i>Podosphaera xanthii</i>, causal agent of cucurbit powdery mildew disease	17:30 - 17:30
	Abstract Presenter: Alejandro Jimenez-Sanchez, University of Malaga, Malaga, Spain	
P1.229	The lifestyle of mucromycotina 'fine root endophytes' through the genomic lens	17:30 - 17:30
	Abstract Presenter: Alan Wanke, Sainsbury Laboratory Cambridge University, Cambridge, United Kingdom	
P1.230	Integrated study of fungal secondary metabolite and exoenzyme profiles, elucidating evolution of fungal interaction with competitors, substrate and host	17:30 - 17:30
	Abstract Presenter: Lene Lange, Technical University of Denmark, Valby, Denmark	
P1.231	Bioinformatics-driven identification of candidate pathogenicity-related genes in <i>Colletotrichum lupini</i> through comparative genomics and effector profiling	17:30 - 17:30
	Abstract Presenter: Andrea Menicucci, University of Bologna, Bologna, Italy	
P1.232	Exploring the complex secondary metabolism of the fungicolous genus <i>Cladobotryum</i> through comparative genomics	17:30 - 17:30
	Abstract Presenter: Anastasia C Christinaki, National and Kapodistrian University of Athens, Athens, Greece	
P1.233	Low complexity regions in fungi display functional groups and are depleted in positively charged amino-acids	17:30 - 17:30
	Abstract Presenter: Anna Muszewska, Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Poland	
P1.234	Genomic hints to Mortierellomycota resilience and adaptability	17:30 - 17:30
	Abstract Presenter: Anna Muszewska, Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Poland	

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Poland

- | | | |
|--------|---|---------------|
| P1.235 | A genomic investigation into <i>Cryptococcus neoformans</i> hybrids | 17:30 - 17:30 |
| | Abstract Presenter: Rahul Anand, University of Exeter, Exeter, United Kingdom | |
| P1.236 | Decoding <i>Basidiobolus</i>: a key member of the herpetofauna gut microbiome | 17:30 - 17:30 |
| | Abstract Presenter: Lluvia Vargas Gastelum, Oregon State University, Corvallis, United States | |
| P1.237 | Pangenomics reveal genome compartmentalization and a putative mating-type locus on an accessory chromosome in a host-specific fungal insect pathogen | 17:30 - 17:30 |
| | Abstract Presenter: Henrik H. de Fine Licht, University of Copenhagen, Frederiksberg, Denmark | |
| P1.238 | 3D model of <i>Podospora anserina</i> genome and integration of epigenomics and transcriptomics data | 17:30 - 17:30 |
| | Abstract Presenter: Gaëlle Lelandais, Université Paris Saclay, Orsay, France | |
| P1.239 | Whole genome sequencing of <i>Penicillium commune</i> spoilage mould from potato-cereal soft wrap production | 17:30 - 17:30 |
| | Abstract Presenter: Annette Fagerlund, The Norwegian Food Research Institute Nofima, Ås, Norway | |
| P1.240 | FungiDB: a bioinformatics resource for facilitating data exploration, analysis, and integration for fungal and oomycete species | 17:30 - 17:30 |
| | Abstract Presenter: David Roos, University of Pennsylvania, Philadelphia, United States | |
| P1.241 | Analysis of the transcriptional regulatory network of lignocellulose degradation in Basidiomycota | 17:30 - 17:30 |
| | Abstract Presenter: Nikolett Miklovics, Institute of Biochemistry, Szeged, Hungary | |
| P1.242 | Insights into the evolution of non-Dikarya (zoosporic & zygomycetous) fungi: a mitogenomic perspective | 17:30 - 17:30 |
| | Abstract Presenter: Konstantina Nefeli Podimata, National and Kapodistrian University of Athens, Athens, Greece | |
| P1.243 | An improved method to identify <i>het</i> genes of <i>Aspergillus nidulans</i> | 17:30 - 17:30 |
| | Abstract Presenter: Ben Auxier, Wageningen University & Research, Wageningen, Netherlands | |
| P1.244 | A new high-quality genome for <i>Fomitopsis pinicola sensu stricto</i> for analysis of gene expression and secondary metabolite production | 17:30 - 17:30 |
| | Abstract Presenter: Janina Österman-Udd, University of Helsinki, Helsinki, Finland | |
| P1.245 | Anaerobic fungi as treasure trove for biomass degradation machinery for exploitation in renewables-based biotechnology | 17:30 - 17:30 |
| | Abstract Presenter: Jolanda van Munster, SRUC, Edinburgh, United Kingdom | |
| P1.246 | The life-cycle switch in the Scots pine blister rust fungus, <i>Cronartium pini</i>, is associated with differences in mating type loci | 17:30 - 17:30 |
| | Abstract Presenter: Åke Olson, Swedish University of Agricultural Sciences, Uppsala, Sweden | |
| P1.247 | A pangenomic approach to understand genome evolution in <i>Cercospora</i> | 17:30 - 17:30 |
| | Abstract Presenter: Jonathan Richards, Louisiana State University Agricultural Center, Baton Rouge, United States | |

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P1.248	Transcriptional insights into the lignocellulose degradation mechanisms of white and brown rot fungi Abstract Presenter: Idoia Jiménez, Public University of Navarre, Pamplona, Spain	17:30 - 17:30
P1.249	Discoveries of genomic treasures in deep-sea fungi Abstract Presenter: Shingo Miyauchi, Okinawa Institute of Science and Technology, Okinawa, Japan	17:30 - 17:30
P1.250	Fungal genomes in the Carbohydrate-Active enZYme database Abstract Presenter: Elodie Drula, INRAE, Marseille, France	17:30 - 17:30
P1.251	Four microplastic-associated marine basidiomycete yeasts: genomic insights into resilience, adaptation, and innovation Abstract Presenter: Francesco Venice, University of Turin (UNITO), Turin, Italy	17:30 - 17:30
P1.252	Assessment of dsRNA uptake in <i>Stemphylium vesicarium</i> for RNAi - based control strategy Abstract Presenter: Elena Baraldi, University of Bologna, Bologna, Italy	17:30 - 17:30
P1.253	Conidia not identical as you may think Abstract Presenter: Shay Covo, Hebrew University, Rehovot, Israel	17:30 - 17:30
P1.254	Phylogenomics and adaptive evolution of the <i>Colletotrichum gloeosporioides</i> species complex Abstract Presenter: Fang Liu, State Key Laboratory of Mycology, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China	17:30 - 17:30
P1.255	Comparative genomics reveals sources of genetic variability in the asexual fungal plant pathogen <i>Colletotrichum lupini</i> Abstract Presenter: Joris Alkemade, University of Oxford, Oxford, United Kingdom	17:30 - 17:30
P1.256	Characterization and transcriptome analysis of a CRISPR/Cas9 generated <i>Botrytis cinerea</i> mutant possessing the MDR-related V575G mutation in <i>Mrr1</i> gene Abstract Presenter: Georgios Sofianos, Aristotle University of Thessaloniki, Thessaloniki, Greece	17:30 - 17:30
P1.257	Pangenome analysis of <i>Candida parapsilosis</i>: gene fusion and stop-gain variation Abstract Presenter: Adam P. Ryan, University College Dublin, Dublin, Ireland	17:30 - 17:30
P1.258	Incongruence and structural variation shape rapid mitogenome evolution in a 2000-isolate panel of the wheat pathogen <i>Zymoseptoria tritici</i> Abstract Presenter: Ivan Skakov, University of Neuchatel, Neuchâtel, Switzerland	17:30 - 17:30
P1.259	Exploring population genomics in <i>Malassezia</i>: evidence for sexual reproduction Abstract Presenter: Marcia David Palma, Duke University Medical Center, Durham, United States	17:30 - 17:30
P1.260	Coordinated adaptation of gene families has shaped the genome of dimorphic fungi Abstract Presenter: Ghizlane Tahiri, University of Murcia, Murcia, Spain	17:30 - 17:45

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Posters

17:30 - 19:00

Antifungal resistance

- | | | |
|--------|---|---------------|
| P1.301 | Tracking hyphal fusion in highly diverse <i>Aspergillus fumigatus</i> populations to identify the formation of multi-drug resistance heterokaryon compatibility groups | 17:30 - 17:30 |
| | Abstract Presenter: Michael Bottery, University of Manchester, Manchester, United Kingdom | |
| P1.302 | Genomic patterns of adaptation to antifungal drugs in the <i>Candida parapsilosis</i> complex | 17:30 - 17:30 |
| | Abstract Presenter: Álvaro Redondo-Río, Barcelona Supercomputing Centre, Barcelona, Spain | |
| P1.303 | Unraveling Fitness Trade-offs in Multidrug-Resistant Fungi: A Path to Optimized Treatments | 17:30 - 17:30 |
| | Abstract Presenter: Hans Carolus, KU Leuven, Leuven, Belgium | |
| P1.304 | Boosting <i>Aspergillus</i> antifungal research combining multiplex CRISPR/Cas9 with counter-selection | 17:30 - 17:30 |
| | Abstract Presenter: Fabio Gsaller, Medical University of Innsbruck, Innsbruck, Austria | |
| P1.305 | Synthetic genetic array screening can identify novel therapeutic targets and inhibitors which combat azole resistance in <i>Candida glabrata</i> | 17:30 - 17:30 |
| | Abstract Presenter: Catrin Cerian Williams, University of Exeter, Exeter, United Kingdom | |
| P1.306 | Starship transposons spread mercury resistance genes between fungal species | 17:30 - 17:30 |
| | Abstract Presenter: Andrew Stewart Urquhart, University of Melbourne, Melbourne, Australia | |
| P1.307 | Targeting Vulvo-Vaginal Candidiasis (VVC): Glycomimetic-Mediated Virulence Inhibition and Resistance Reversal | 17:30 - 17:30 |
| | Abstract Presenter: Helma DAVID, SASTRA Deemed University, Thanjavur, India | |
| P1.308 | Genetic basis and evolution of resistance to a polyene preservative natamycin | 17:30 - 17:30 |
| | Abstract Presenter: Alexey Grum-Grzhimaylo, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands | |
| P1.309 | Tracking antifungal resistance in <i>A. fumigatus</i> from compost samples in Norway | 17:30 - 17:30 |
| | Abstract Presenter: Magdalena Monika Owczarek-Kościelniak, Norwegian Veterinary Institute, Ås, Norway | |
| P1.310 | Multi-drug and -fungicide resistance in the pathogen <i>Aspergillus fumigatus</i> | 17:30 - 17:30 |
| | Abstract Presenter: Michelle Momany, University of Georgia, Athens, United States | |
| P1.311 | Antifungal tolerant <i>Candida glabrata</i> experience chromosomal abnormalities, upregulation of efflux pumps and decreased virulence | 17:30 - 17:30 |
| | Abstract Presenter: Roy A. Khalaf, Lebanese American University, Byblos, Lebanon | |
| P1.312 | Characterization of organotin resistance in the sugar beet pathogen <i>Cercospora beticola</i> | 17:30 - 17:30 |
| | Abstract Presenter: Ana Laura Martinez, North Dakota State University, Fargo, United States | |

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P1.313	Exploring azole resistance mechanisms in <i>mucor iusitanicus</i>: the impact of genetic mutations and efflux transporters	17:30 - 17:30
	Abstract Presenter: Michaela Lackner, Medical University of Innsbruck, Institut for Hygiene and Medical Microbiology, Innsbruck, Austria	
P1.314	Unlocking the fungicidal activity of triazoles against <i>Candida auris</i>	17:30 - 17:30
	Abstract Presenter: Jeffrey Rybak, St. Jude Children's Research Hospital, Memphis, United States	
P1.315	Mechanistic insights into combinatorial stress adaptation in <i>Candida glabrata</i>: implications for antifungal resistance and pathogenicity	17:30 - 17:30
	Abstract Presenter: Jane Usher, University of Exeter, Exeter, United Kingdom	
P1.316	Insights into the chitin metabolism of pathogenic oomycetes: a promising target for fungicide development and biocontrol	17:30 - 17:30
	Abstract Presenter: Lisa Kappel, KTH Royal Institute of Technology, Stockholm, Sweden	
P1.317	Mathematical modeling of fungal growth provides insights into antifungal drug resistance	17:30 - 17:30
	Abstract Presenter: David Cánovas, University of Sevilla, Sevilla, Spain	
P1.318	Unveiling the genetic background of azole-resistant and susceptible <i>Aspergillus fumigatus</i> environmental isolates of the Basque Country	17:30 - 17:30
	Abstract Presenter: Saioa Cendon-Sanchez, University of the Basque Country (UPV/EHU), Bilbao, Spain	
P1.319	In-vitro evolution of known pathogenic <i>Candida</i> species to understand genomic adaptations	17:30 - 17:30
	Abstract Presenter: Mrinalini Parmar, Institute of Research in Biomedicine, Barcelona, Spain	
P1.320	Cytochrome bc1 quinone inside inhibitor fungicide suppresses fungal sensitivity to widely-used azole-based antifungals	17:30 - 17:30
	Abstract Presenter: Severina Marija Pociunaite, Institute of Cell Biology, University of Edinburgh, Edinburgh, United Kingdom	
P1.321	Harnessing green-synthesized nanoparticles to combat fungal diseases in citrus: a sustainable approach to fungicide resistance	17:30 - 17:30
	Abstract Presenter: Anastasios Malandrakis, Technical University of Crete, Chania, Greece	
P1.322	Structure-function characterization of antifungal peptides and development of high-level production chassis strains	17:30 - 17:30
	Abstract Presenter: Lena Heber, Technische Universität Berlin, Berlin, Germany	
P1.323	Azole tolerance and resistance in <i>Candida parapsilosis</i>	17:30 - 17:30
	Abstract Presenter: Conor Hession, University College Dublin, Dublin, Ireland	
P1.324	The role of membrane transporters in <i>Aspergillus fumigatus</i> drug resistance	17:30 - 17:30
	Abstract Presenter: Lilian Chidi-Onuorah, The University of Manchester, Manchester, United Kingdom	
P1.325	Combination therapy suppresses the emergence of resistance in <i>Aspergillus fumigatus</i>	17:30 - 17:30
	Abstract Presenter: Jamie Tindale, University of Manchester, Manchester, United Kingdom	
P1.326	Molecular identification and fungicide resistance profiles of	17:30 - 17:30

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- Colletotrichum* spp. strains associated with Olive Anthracnose disease in Greece**
Abstract Presenter: Anastasia G. Papageorgiou, Agricultural University of Athens, Athens, Greece
- P1.327 **Development of a novel siderophore-based antifungal for treatment of *A. fumigatus*** 17:30 - 17:30
Abstract Presenter: Cathal Murphy, Maynooth University, Maynooth, Ireland
- P1.328 **Resistance towards biological control? Screening of fungal isolates from a long-term field trial** 17:30 - 17:30
Abstract Presenter: Esther Kuper, Swedish University of Agricultural Sciences, Lomma, Sweden
- P1.329 **Acquired azole resistance in black *Aspergilli* in the Netherlands** 17:30 - 17:30
Abstract Presenter: Maarten Punt, National Institute for Public Health and the Environment, Bilthoven, Netherlands
- P1.330 **Identification of novel genetic determinants of fluconazole resistance in *Candida auris*** 17:30 - 17:30
Abstract Presenter: Tracy L. Peters, St. Jude Children's Research Hospital, Memphis, United States
- P1.331 **The genetic basis for fluconazole resistance in Clade III *Candida auris* clinical isolates** 17:30 - 17:30
Abstract Presenter: Kathy Barker, St. Jude Children's Research Hospital, Memphis, United States
- P1.332 **Characterisation of *Mucor lusitanicus* PDR transporters with a focus on Cluster A transporters that confer multidrug resistance** 17:30 - 17:30
Abstract Presenter: Stephanie Töpfer, Medical University of Innsbruck, Innsbruck, Austria
- P1.333 **Characterization of the *Sordaria macrospora* PDR16 protein: a lipid transfer protein putatively regulating the lipid composition of membranes** 17:30 - 17:30
Abstract Presenter: Stefanie Pöggeler, Georg-August University Göttingen, Göttingen, Germany
- P1.334 **Rapamycin sensitivity is induced by lithium in *Aspergillus fumigatus*: structural, binding, and phenotypic effects of lithium induced rapamycin binding to FKBP12** 17:30 - 17:30
Abstract Presenter: Praveen R Juvvadi, University of Arkansas for Medical Sciences, Little Rock, United States
- P1.335 **From Crops to Clinic - The Dual Use of Azoles Driving Antifungal Resistance in *Candida* species** 17:30 - 17:30
Abstract Presenter: Jessica Allison, Queen's University Belfast, School of Biological Sciences, Belfast, United Kingdom
- P1.336 **Phylogenetic analysis of members of the Antifungal Protein and Bubble Protein family** 17:30 - 17:30
Abstract Presenter: Claudia Cairns, Institute of Biotechnology, Technische Universität Berlin, Berlin, Germany
- P1.337 **High recombination rates in *Aspergillus fumigatus* allows for bulk quantitative trait locus (QTL) mapping of known and novel azole resistance and fitness traits** 17:30 - 17:30
Abstract Presenter: Clara Valero, The University of Manchester, Manchester, United Kingdom
- P1.338 **Multi-drug resistant *Aspergillus fumigatus* are more fit at sub-inhibitory concentrations of DHODH inhibitors** 17:30 - 17:30
Abstract Presenter: Norman van Rhijn, University of Manchester, Manchester, United Kingdom
- P1.339 **First observation of genetically acquired echinocandin tolerance in** 17:30 - 17:30

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***Candida auris*: from treatment failure *in vivo* to mechanism of action**

Abstract Presenter: Dimitrios Sofras, KU Leuven, Leuven, Belgium

P1.340

Transcriptomic response of *Madurella mycetomatis* exposed to azoles

17:30 - 17:30

Abstract Presenter: Tim Baltussen, Erasmusmc, Rotterdam, Netherlands

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Tuesday, March 4, 2025

Plenary

09:00 - 10:45

BO 1

Plenary Session 2

Chairs: Kenneth Wolfe, University College Dublin, Dublin, Ireland

Chairs: Derek Sullivan, Trinity College Dublin, Dublin, Ireland

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|-------|---|---------------|
| PS2.1 | The genomic making of yeast metabolic and ecological diversity | 09:00 - 09:45 |
| | Plenary Speaker: Chris Todd Hittinger, University of Wisconsin, Madison, United States | |
| PS2.2 | Evolution of Mating type, population diversity, and genomic and phenotypic variation in <i>Rhodotorula</i> isolated from built and extreme environments. | 09:45 - 10:15 |
| | Plenary Speaker: Jason Stajich, University of California, Riverside, United States | |
| PS2.3 | Gene loss and horizontal gene transfer drive radical metabolic change in a floral yeast clade | 10:15 - 10:45 |
| | Plenary Speaker: Paula Gonçalves, University of Lisbon, Lisbon, Portugal | |

Break

10:45 - 11:15

BO 1

Tea and Coffee Break - Liffey A

Plenary

11:15 - 12:45

BO 1

Plenary Session 2

Chairs: Derek Sullivan, Trinity College Dublin, Dublin, Ireland

Chairs: Kenneth Wolfe, University College Dublin, Dublin, Ireland

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|-------|---|---------------|
| PS2.4 | Genotype and phenotype diversity in <i>Candida parapsilosis</i> | 11:15 - 11:45 |
| | Plenary Speaker: Geraldine Butler, University College Dublin, Dublin, Ireland | |
| PS2.5 | Giant "Starship" transposons are a crucible of evolution | 11:45 - 12:15 |
| | Plenary Speaker: Aaron Vogan, University of Uppsala, Uppsala, Sweden | |
| PS2.6 | Understanding the role of non-coding RNAs in the human fungal pathogen <i>Candida albicans</i> | 12:15 - 12:45 |
| | Plenary Speaker: Alessia Buscaino, University of Kent, Canterbury, United Kingdom | |

Industry / Lunch Break

12:45 - 14:30

BO 1

Lunch Break and Industry Sessions

Other

12:45 - 13:45

BO 6

JGI-EMSL Multi-Omics Workshop: Towards 10,000 Fungal Genomes and Phenotypes

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Oral

14:00 - 15:30

BO 1

Plant pathogenic fungi

Chairs: Isabelle Fudal, INRAE, Palaiseau, France

Chairs: Emmanuelle Graciet, Maynooth University, Maynooth, Ireland

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|----------|---|---------------|
| CS 2.1.1 | Armed with the 'Red Button' - How does a fungal pathogen activate its necro ('nuclear') trophic effector arsenal? | 14:00 - 14:15 |
| | Abstract Presenter: Kar-Chun Tan, Curtin University, Perth, Australia | |
| CS 2.1.2 | Investigating the role of secreted phospholipases in fungal virulence; the case of <i>Verticillium longisporum</i> | 14:15 - 14:30 |
| | Abstract Presenter: Georgios Tzelepis, Swedish University of Agricultural Sciences, Uppsala, Sweden | |
| CS 2.1.3 | Functional analysis of secreted long non-coding RNA contributing to the virulence of the corn smut fungus <i>Ustilago maydis</i> | 14:30 - 14:45 |
| | Abstract Presenter: Shigeyuki Tanaka, Setsunan University, Hirakata, Japan | |
| CS 2.1.4 | <i>Zymoseptoria tritici</i> effector diversity and interactions wheat resistance proteins | 14:45 - 15:00 |
| | Abstract Presenter: Angela Feechan, Heriot-Watt University, Edinburgh, United Kingdom | |
| CS 2.1.5 | A fungal transcription factor <i>CtBOT6</i> converts a beneficial root endophyte <i>Colletotrichum tofieldiae</i> into an anthracnose leaf pathogen | 15:00 - 15:15 |
| | Abstract Presenter: Ren Ujimatsu, The University of Tokyo, Tokyo, Japan | |
| CS 2.1.6 | When timing is everything: coordination of pathogenic development by feedback regulation between unfolded protein response and mating-type signaling in <i>Ustilago maydis</i> | 15:15 - 15:30 |
| | Abstract Presenter: Kai Heimel, University of Göttingen, Göttingen, Germany | |

Oral

14:00 - 15:30

BO 2

Synthetic biology and biotechnology

Chairs: Arthur Ram, Universiteit Leiden, Leiden, Netherlands

Chairs: Sean Doyle, Maynooth University, Maynooth, Ireland

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|----------|--|---------------|
| CS 2.2.1 | Unlocking genetic potential in <i>Trametes versicolor</i> to optimize mycelium-based biomaterials | 14:00 - 14:15 |
| | Abstract Presenter: Jara Saluena, Vrije Universiteit Brussel, Ixelles, Belgium | |
| CS 2.2.2 | Development of a YTK-compatible secretion toolkit for the industry-relevant yeast <i>Kluyveromyces marxianus</i> | 14:15 - 14:30 |
| | Abstract Presenter: Carlos Belloch Molina, University College Cork, Cork, Ireland | |
| CS 2.2.3 | <i>Aspergillus oryzae</i>: challenges in bio-based industries through synthetic biology approach | 14:30 - 14:45 |
| | Abstract Presenter: Chanikul Chutrakul, National Center for Genetic Engineering and Biotechnology (BIOTEC) Science and Technology Development Agency (NSTDA), Pathum Thani, Thailand | |
| CS 2.2.4 | Development of new and highly efficient <i>Agrobacterium</i>-mediated platforms for genetic manipulation in some important filamentous fungi | 14:45 - 15:00 |

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Abstract Presenter: Van-Tuan Tran, University of Science, Vietnam National University, Hanoi, Ha Noi, Vietnam

CS 2.2.5 **Increasing fungal natural product titer with heterologous overexpression using MycoDrive genome engineering** 15:00 - 15:15

Abstract Presenter: Benjamin Knox, Terra Bioforge, Middleton, United States

CS 2.2.6 **Application of multi-omics analyses and heterologous expression to study lichen natural products** 15:15 - 15:30

Abstract Presenter: Tania Keiko Shishido Joutsen Shishido, University of Helsinki, Helsinki, Finland

Oral

14:00 - 15:30

BO 3

Fungi in sustainability

Chairs: John Morrissey, University College Cork, Cork, Ireland

Chairs: Vera Meyer, Technische Universität Berlin, Berlin, Germany

CS 2.3.1 **Sustainable food innovation with filamentous fungi** 14:00 - 14:15

Abstract Presenter: Loes van Dam, DTU, 2800 Kgs. Lyngby, Denmark

CS 2.3.2 **Rhizopus oryzae efficiently converts barley proteins into mycoprotein in solid state fermentation and improves food functionality of brewer's spent grain** 14:15 - 14:30

Abstract Presenter: Mikael Terp, Aalborg University, Aalborg, Denmark

CS 2.3.3 **Valorization of whiskey side-streams for sustainable mycoprotein production and waste reduction** 14:30 - 14:45

Abstract Presenter: Tri-Thuc Bui, Maynooth University, Maynooth, Ireland

CS 2.3.4 **Development of an automatically controlled modular bioreactor for Solid State Fermentation for research and industrial scale** 14:45 - 15:00

Abstract Presenter: Peter Stephensen Lübeck, Aalborg University, Aalborg, Denmark

CS 2.3.5 **Biosustainable production of indigoidine dye from polystyrene and polyethylene plastic waste** 15:00 - 15:15

Abstract Presenter: Zoey Bowers, University of Southern California, Los Angeles, United States

CS 2.3.6 **Carbon fiber reinforced polymers composite recycling and thermoset matrix up-cycling utilizing an engineered strain of Aspergillus nidulans** 15:15 - 15:30

Abstract Presenter: Clay Wang, University of Southern California, Los Angeles, United States

Oral

14:00 - 15:30

BO 4

Chromatin biology and epigenetics

Chairs: Alastair Fleming, Trinity College Dublin, Dublin, Ireland

Chairs: Edel Hyland, Queen's University Belfast, Belfast, Netherlands

CS 2.4.1 **Developmentally regulated transposon activity as a mechanism for rapid adaptation in the clonally evolving fungal pathogen Fusarium oxysporum** 14:00 - 14:15

Abstract Presenter: Antonio Di Pietro, Universidad de Córdoba, Córdoba, Spain

CS 2.4.2 **Histone deacetylase-1 is required for epigenomic stability in** 14:15 - 14:30

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Neurospora crassa

Abstract Presenter: Zachary Lewis, University of Georgia, Athens, United States

CS 2.4.3	Conserved DNA methylation within the <i>Neurospora</i> genus	14:30 - 14:45
	Abstract Presenter: Jesper Svedberg, Stockholm University, Stockholm, Sweden	
CS 2.4.4	Exploring the impact of DNA Methylation on three-dimensional genome architecture in a major wheat pathogen	14:45 - 15:00
	Abstract Presenter: Ivona Glavincheska, ETH Zurich, Zurich, Switzerland	
CS 2.4.5	Epigenetic regulation as a mechanism for gain of virulence in rust fungi	15:00 - 15:15
	Abstract Presenter: Rita Domingues Carvalho, John Innes Centre, Norwich, United Kingdom	
CS 2.4.6	DNA damage recognition and ADP-ribosylation signalling by fungal PARPs	15:15 - 15:30
	Abstract Presenter: Johannes G. M. Rack, University of Exeter, Exeter, United Kingdom	

Oral

14:00 - 15:30

BO 5

Biodiversity of fungi

Chairs: Oded Yarden, The Hebrew University of, Jerusalem, Israel

Chairs: Pedro Crous, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands

CS 2.5.1	Interrogating yeast biodiversity with “silent” synonymous codon bias	14:00 - 14:15
	Abstract Presenter: Abigail LaBella, UNC Charlotte, Charlotte, United States	
CS 2.5.2	Evolution of maltose utilisation in Irish isolates of <i>Saccharomyces eubayanus</i>	14:15 - 14:30
	Abstract Presenter: Sean Bergin, University College Dublin, Dublin, Ireland	
CS 2.5.3	The evolutionary landscape of primary carbon metabolism across the <i>Aspergillus</i> genus	14:30 - 14:45
	Abstract Presenter: Ronald P. de Vries, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
CS 2.5.4	Unveiling the diversity of <i>Trichoderma reesei</i>: new paths for biotechnological advances	14:45 - 15:00
	Abstract Presenter: Tiziano Benocci, University of Vienna, Vienna, Austria	
CS 2.5.5	A taxonomic revision of the <i>Fusarium sambucinum</i> species complex	15:00 - 15:15
	Abstract Presenter: Pedro Crous, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands	
	Discussion	15:15 - 15:30

Oral

14:00 - 15:30

BO 6

RNA biology

Chairs: Elena Baraldi, University of Bologna, Bologna, Italy

Chairs: Guilhem Janbon, Institut Pasteur, Paris, France

CS 2.6.1	The extracellular transcriptome in <i>Cryptococcus neoformans</i>	14:00 - 14:15
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Abstract Presenter: Guilhem Janbon, Institut Pasteur, Paris, France

CS 2.6.2 **Breaking the model - exploring the tRNA biology of non-model fungi** 14:15 - 14:30

Abstract Presenter: Lauren Dineen, UNC Charlotte, Charlotte, United States

CS 2.6.3 **Transcriptional adaptation is conserved in the filamentous fungus *Neurospora crassa* and plays a considerable role in fungal fitness** 14:30 - 14:45

Abstract Presenter: Hamzeh Haj Hammadeh, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany

CS 2.6.4 **Alternative polyadenylation site usages in *Cryptococcus neoformans* (and its role in stress adaptation)** 14:45 - 15:00

Abstract Presenter: Shana DELFOSSE, Institut Pasteur, Paris, France

CS 2.6.5 **An improved description of the untranslated regions of poly(A)-tailed RNA from *Aspergillus fumigatus*** 15:00 - 15:15

Abstract Presenter: Lukas Schrettenbrunner, Leibniz-HKI, Jena, Germany

CS 2.6.6 **A near-terminal double-stranded RNA element is associated with near-identical [D1,2] stwintrons integrated in different, unlinked genes in species of *Xylariales*** 15:15 - 15:30

Abstract Presenter: Erzsébet Fekete, University of Debrecen, Debrecen, Hungary

Break

15:30 - 16:00

Tea and Coffee Break - Liffey A

Oral

16:00 - 17:30

BO 1

Plant pathogenic fungi

Chairs: Isabelle Fudal, INRAE, Palaiseau, France

Chairs: Emmanuelle Graciet, Maynooth University, Maynooth, Ireland

CS 2.1.7 **X-ray microtomography and MAP kinase signaling reveal distinct stages of *Fusarium oxysporum* root invasion and colonization patterns** 16:00 - 16:15

Abstract Presenter: David Turra, University of Naples "Federico II", Portici, Italy

CS 2.1.8 **Remaining undetected: balancing plant cell wall degradation and elicitors of host immunity by the wheat pathogen *Z. tritici*** 16:15 - 16:30

Abstract Presenter: Andrea Sanchez Vallet, Polytechnic University of Madrid, Madrid, Spain

CS 2.1.9 **Undermining the "cry for help": the phytopathogenic fungus *Verticillium dahliae* secretes a novel antimicrobial to undermine host recruitment of antagonistic *Pseudomonas* bacteria** 16:30 - 16:45

Abstract Presenter: Wilko Punt, University of Cologne, Cologne, Germany

CS 2.1.10 **Molecular mimicry of plant cell-surface immune receptors by fungal secreted leucine-rich repeat proteins** 16:45 - 17:00

Abstract Presenter: Graeme Kettles, University of Birmingham, Birmingham, United Kingdom

CS 2.1.11 **Glutathione mediated redox state is important for *Ustilago*** 17:00 - 17:15

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maydis growth, melanin formation and virulence

Abstract Presenter: Matthias Kretschmer, University of British Columbia, Vancouver, Canada

CS 2.1.12 **Effectoromics and glucosinolate resistance in *Botrytis cinerea*** 17:15 - 17:30

Abstract Presenter: Maggie Levy, Hebrew University of Jerusalem, Rehovot, Israel

Oral

16:00 - 17:30

BO 2

Synthetic biology and biotechnology

Chairs: Arthur Ram, Universiteit Leiden, Leiden, Netherlands

Chairs: Sean Doyle, Maynooth University, Maynooth, Ireland

CS 2.2.7 **Regulation of starch-degrading enzymes in *Thermothelomyces thermophilus*** 16:00 - 16:15

Abstract Presenter: Joost van den Brink, Leiden University, Leiden, Netherlands

CS 2.2.8 **A CRISPR/Cas9-based multicopy integration system for increased glucoamylase production in *Aspergillus niger*** 16:15 - 16:30

Abstract Presenter: Jisca L. van Dam, Leiden University, Leiden, Netherlands

CS 2.2.9 **Precise control of *Aspergillus niger* pellet size, heterogeneity and core architecture during shake flask cultivation** 16:30 - 16:45

Abstract Presenter: Karin Engelbert, Technische Universität Berlin, Berlin, Germany

CS 2.2.10 ***Trichoderma reesei* strain breeding by micro-droplet screening** 16:45 - 17:00

Abstract Presenter: Yosuke Shida, Nagaoka University of Technology, Nagaoka, Japan

CS 2.2.11 **Investigating UPR and RESS mechanisms in *trichoderma reesei*: transcriptome insights, calcium-calmodulin signaling, and morphological implications under stress conditions** 17:00 - 17:15

Abstract Presenter: Reshma Jadhav, Vienna University of Technology, Vienna, Austria

CS 2.2.12 **Optimization of laccase from *Trametes versicolor* for improving the aflatoxin B1 detoxification** 17:15 - 17:30

Abstract Presenter: Marco Zaccaria, CEA/INAC-MEM/L-Sim, University Grenoble Alpes, Grenoble, France

Oral

16:00 - 17:30

BO 3

Fungi in sustainability

Chairs: John Morrissey, University College Cork, Cork, Ireland

Chairs: Vera Meyer, Technische Universität Berlin, Berlin, Germany

CS 2.3.7 **Withdrawn** 16:00 - 16:15

CS 2.3.8 **Distinct functions of the cell wall synthesis regulators in *Pleurotus ostreatus*: a prelude to cell wall engineering for future mushroom material improvements** 16:15 - 16:30

Abstract Presenter: Moriyuki Kawauchi, Kyoto University, Kyoto, Japan

CS 2.3.9 **Uncovering the transcriptional landscape of *Fomes fomentarius* during fungal-based material production through gene co-expression network analysis** 16:30 - 16:45

Abstract Presenter: Timothy Cairns, Technische Universität Berlin, Berlin, Germany

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| CS 2.3.10 | Effective bioremediation of toxic-waste cooking oil using lipases produced by mycotoxin-free strain of <i>Aspergillus foetidus</i>
Abstract Presenter: Mariana Espinoza-López, Tecnológico Nacional de México, Campus Mérida, Mérida, Mexico | 16:45 - 17:00 |
| CS 2.3.11 | Understanding anaerobic fungi carbohydrate degrading enzyme induction for agricultural waste valorisation
Abstract Presenter: Jessica L. Matthews, SRUC, Edinburgh, United Kingdom | 17:00 - 17:15 |
| CS 2.3.12 | Exploring filamentous fungi as eco-friendly tools for reducing CO2 emissions in the concrete industry
Abstract Presenter: Caroline Danner, TU Wien, Wien, Austria | 17:15 - 17:30 |

Oral

16:00 - 16:30

BO 4

Chromatin biology and epigenetics

Chairs: Alastair Fleming, Trinity College Dublin, Dublin, Ireland

Chairs: Edel Hyland, Queen's University Belfast, Belfast, Netherlands

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|----------|--|---------------|
| CS 2.4.7 | Epigenetic modifications involved in the evolution of the Ascomycete <i>Pseudogymnoascus destructans</i>: role in the repression of transposable elements
Abstract Presenter: Sebastien J. Puechmaille, University of Montpellier, Montpellier, France | 16:00 - 16:15 |
| CS 2.4.8 | A selfish Spore Killer element contributes to mitotic stability of a dispensable fungal chromosome
Abstract Presenter: Gema Puebla Planas, University of Cordoba, Cordoba, Spain | 16:15 - 16:30 |

Oral

16:00 - 17:30

BO 5

Biodiversity of fungi

Chairs: Oded Yarden, The Hebrew University of, Jerusalem, Israel

Chairs: Pedro Crous, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands

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| CS 2.5.7 | Exploring fungal diversity in the North Sea and Atlantic Ocean
Abstract Presenter: Raquel Ledo Doval, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands | 16:00 - 16:15 |
| CS 2.5.8 | Fungi as a sustainable solution for <i>Striga</i> eradication
Abstract Presenter: Khyati Karna Bhatt, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands | 16:15 - 16:30 |
| CS 2.5.9 | <i>Fusarium</i> pathogen population and mycotoxin diversity in barley grains from commercial fields in the Canadian prairies
Abstract Presenter: Xiben Wang, Morden Research and Development Centre, Morden, Canada | 16:30 - 16:45 |
| CS 2.5.10 | Fungal diversity and biodeterioration of archaeological carvings in badami Cave Temples: an in-depth microcosm study
Abstract Presenter: Shivankar Agrawal, University College Cork, Cork, Ireland | 16:45 - 17:00 |
| CS 2.5.11 | The enigmatic role of mini-chromosomes in <i>Fusarium verticillioides</i>
Abstract Presenter: Luigi Faino, University of Rome, Roma, Italy | 17:00 - 17:15 |
| CS 2.5.12 | Novel pore-forming aegerolysins and their MACPF partners from fungi
Abstract Presenter: Nada Kraševc, National Institute of Chemistry, Ljubljana, Slovenia | 17:15 - 17:30 |

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Oral

16:00 - 17:30

BO 6

RNA biology

Chairs: Elena Baraldi, University of Bologna, Bologna, Italy

Chairs: Guilhem Janbon, Institut Pasteur, Paris, France

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|-----------|---|---------------|
| CS 2.6.7 | Alternative evolutionary trajectories following RNAi loss in <i>Cryptococcus</i> | 16:00 - 16:15 |
| | Abstract Presenter: Joseph Heitman, Duke University, Durham, United States | |
| CS 2.6.8 | RNAi drives heritability of epimutational antimicrobial resistance | 16:15 - 16:30 |
| | Abstract Presenter: Carlos Perez Arques, Duke University, Durham, United States | |
| CS 2.6.9 | Spray-induced gene silencing: key factors for a successful implementation in the control of fungal plant pathogens | 16:30 - 16:45 |
| | Abstract Presenter: Jonatan Niño Sánchez, University of Valladolid, Palencia, Spain | |
| CS 2.6.10 | Advancing plant defense: RNAi-based control of fungal pathogens in grapevine | 16:45 - 17:00 |
| | Abstract Presenter: Milan Karas, Alma Mater Studiorum - University of Bologna, Bologna, Italy | |
| CS 2.6.11 | Participation of miRNA in the multidirectional communication between wheat and pathogenic <i>Fusarium culmorum</i>, and wheat and beneficial <i>Trichoderma atroviride</i> | 17:00 - 17:15 |
| | Abstract Presenter: Sylwia Salamon, Institute of Plant Genetics PAS, Poznań, Poland | |

Oral

16:30 - 17:30

BO 4

Tools for fungal molecular biology

Chairs: Edel Hyland, Queen's University Belfast, Belfast, Netherlands

Chairs: Alastair Fleming, Trinity College Dublin, Dublin, Ireland

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|----------|---|---------------|
| CS 2.7.1 | Mitochondrial rRNA Methyltransferase MRM1 sustains the functionality of mitochondria by regulating translation elongation of all mitochondrial mRNAs independent of its methyltransferase activity | 16:30 - 16:45 |
| | Abstract Presenter: Lixin Xie, Huazhong Agricultural University, Wuhan, China | |
| CS 2.7.2 | Iterative CRISPR/Cas9 genome editing to reduce extracellular protease activity for heterologous protein production in <i>Aspergillus niger</i> | 16:45 - 17:00 |
| | Abstract Presenter: Mark Arentshorst, Leiden University, Leiden, Netherlands | |
| CS 2.7.3 | Enhancing <i>impala</i> transposon-mediated insertional mutagenesis in <i>Zymoseptoria tritici</i>, a fungal pathogen of wheat | 17:00 - 17:15 |
| | Abstract Presenter: Marc-Henri LEBRUN, Université Paris-Saclay, Palaiseau, France | |
| CS 2.7.4 | Efficient and targeted loss of heterozygosity in <i>Candida albicans</i> using CRISPR-Cas9 | 17:15 - 17:30 |
| | Abstract Presenter: Philippe Despres, Broad Institute, Boston, United States | |

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17:30 - 19:00

Chromatin biology and epigenetics

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| P2.401 | The impact of 3D genome conformation on chromatin interactions and gene regulation in a major wheat pathogen
Abstract Presenter: Ivona Glavincheska, ETH Zurich, Zurich, Switzerland | 17:30 - 17:30 |
| P2.402 | Genome-wide exploration of the transcriptional regulatory landscape in the early-diverging fungus <i>R. microsporus</i>
Abstract Presenter: Carlos Lax, University of Murcia, Murcia, Spain | 17:30 - 17:30 |
| P2.403 | Unraveling the chromosomal landmarks of the filamentous fungus <i>Trichoderma reesei</i>
Abstract Presenter: Killian Métivier, IFP Energies Nouvelles, Rueil-Malmaison, France | 17:30 - 17:30 |
| P2.404 | Elucidating the role of ADP-ribosylation signalling in the DNA damage response of <i>Aspergillus fumigatus</i>
Abstract Presenter: Callum James Parkin, University of Exeter, Exeter, United Kingdom | 17:30 - 17:30 |
| P2.405 | Conserved DNA methylation within <i>Neurospora</i>
Abstract Presenter: Jesper Svedberg, Stockholm University, Stockholm, Sweden | 17:30 - 17:30 |
| P2.406 | Towards understanding mechanisms of de novo epigenetic silencing
Abstract Presenter: Florian Carlier, Institut Pasteur, Paris, France | 17:30 - 17:30 |
| P2.407 | Analysis of potential DNA 6mA readers in early-diverging fungi
Abstract Presenter: Pablo Carrillo-Marín, Universidad de Murcia, Murcia, Spain | 17:30 - 17:30 |
| P2.408 | Precision regulation of <i>Candida albicans</i> pathogenesis through fine-tuning histone acetylation by Rpd31 and Rpd32
Abstract Presenter: Jueun Kim, Kangwon National University, Chuncheon, Korea, Republic of | 17:30 - 17:30 |
| P2.409 | Regulation of effector gene expression as concerted waves in <i>Leptosphaeria maculans</i>: a two-player game involving a chromatin remodeler and a specific transcription factor
Abstract Presenter: Isabelle Fudal, INRAE, Palaiseau, France | 17:30 - 17:30 |
| P2.410 | Set1-dependent H3K4 modifications regulate inducible gene expression in <i>Candida albicans</i>
Abstract Presenter: Jung-Shin Lee, Kangwon National University, Chuncheon, Korea, Republic of | 17:30 - 17:30 |
| P2.411 | Investigating the role of histone post-translational modifications in yeast stationary phase
Abstract Presenter: Zain Baazeem, Trinity College, University of Dublin, Dublin, Ireland | 17:30 - 17:30 |
| P2.412 | A selfish Spore Killer element contributes to mitotic stability of a dispensable fungal chromosome
Abstract Presenter: Gema Puebla Planas, University of Cordoba, Cordoba, Spain | 17:30 - 17:30 |

Posters

17:30 - 19:00

Poster Session 2

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Posters

17:30 - 19:00

Tools for fungal molecular biology

- P2.701 **Iterative CRISPR/Cas9 genome editing to reduce extracellular protease activity for heterologous protein production in *Aspergillus niger*** 17:30 - 17:30
Abstract Presenter: Mark Arentshorst, Leiden University, Leiden, Netherlands
- P2.702 **Whole genome sequencing of *Coccidioides posadasii* clinical isolates reveals associations with geography and clonal clusters from different patients** 17:30 - 17:45
Abstract Presenter: Katrina Jackson, Northern Arizona University, Flagstaff, United States

Posters

17:30 - 19:00

Biodiversity of fungi

- P2.501 **Phenotypic and omics analysis of *Marquandomyces marquandii* and *Albophoma yamanashiensis* isolated from sediment samples of Basque estuaries** 17:30 - 17:30
Abstract Presenter: Ziortza Agirrezabala, University of the Basque Country, San Sebastian, Spain
- P2.502 **Analysis of the diversity in the *Fusarium oxysporum* and *Fusarium solani* species complexes in indoor environments and clinical isolates** 17:30 - 17:30
Abstract Presenter: Enrico Garbe, Leibniz Institute for Natural Product Research and Infection Biology – Hans Institute, Jena, Germany
- P2.503 **A survey conducted to the Madeira Island (Portugal) reveals the presence of 21 species of *Colletotrichum* occurring on nature and on agricultural and ornamental plants** 17:30 - 17:30
Abstract Presenter: Pedro Talhinhos, Instituto Superior de Agronomia, Universidade de Lisboa, Lisbon, Portugal
- P2.504 **A nation-wide inventory for Dutch soil fungal diversity** 17:30 - 17:30
Abstract Presenter: Johannes Z. Groenewald, Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands
- P2.505 **Can we determine the conservation status of microfungi when increasingly species can only be distinguished based on molecular data? The case of *Colletotrichum*** 17:30 - 17:30
Abstract Presenter: Pedro Talhinhos, Instituto Superior de Agronomia, Universidade de Lisboa, Lisbon, Portugal
- P2.506 **Mycoflora of date palm *Phoenix dactylifera* from Native and Naturalized Ranges** 17:30 - 17:30
Abstract Presenter: Maryam Alomran, Princess Nourah bint Abdulrahman University, College of Science, Riyadh, Arabia
- P2.507 **Population genomic analyses reveal geographic structure in *Fusarium verticillioides*** 17:30 - 17:30
Abstract Presenter: Stephen Harding, U.S. Department of Agriculture, Peoria, United States
- P2.508 **Exploring the Potential of Irish Endolichenic Fungi for Sustainable Industrial Enzymes** 17:30 - 17:30
Abstract Presenter: Shivankar Agrawal, University College Cork, Cork, Ireland

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- P2.509 **Shedding light on the vegetative life stage of the fairy ring fungus *Marasmius oreades*** 17:30 - 17:30
Abstract Presenter: Boel Olsson, Stockholm University, Stockholm, Sweden

Posters

17:30 - 19:00

Plant pathogenic fungi

- P2.101 **High-efficiency multiplex gene targeting in *Colletotrichum* fungi using CRISPR-Cas9 co-editing and dual-marker exchange** 17:30 - 17:30
Abstract Presenter: Naoyoshi Kumakura, RIKEN, Yokohama, Japan
- P2.102 **Phyllospheric non-phytopathogenic bacteria promotes the virulence of the Brassicaceae anthracnose fungus *Colletotrichum higginsianum*** 17:30 - 17:30
Abstract Presenter: Shigeyuki Tanaka, Setsunan University, Hirakata, Japan
- P2.103 **Host cell death triggered by plant immunity during the necrotrophic phase of hemibiotrophic fungal pathogen infection** 17:30 - 17:30
Abstract Presenter: Katsuma Yonehara, The University of Tokyo, Tokyo, Japan
- P2.104 ***Zymoseptoria tritici* effectors structurally related to killer proteins KP4 and KP6 are toxic to fungi, and define extended protein structural super families** 17:30 - 17:30
Abstract Presenter: Marc-Henri LEBRUN, Universite Paris-Saclay, Palaiseau, France
- P2.105 **Within-field *Zymoseptoria tritici* surveys reveal high variability in effector haplotypes** 17:30 - 17:30
Abstract Presenter: Andrea Tobian Herreno, Christian-Albrechts Universität zu Kiel, Kiel, Germany
- P2.106 **The host-specificity factor SOVIG9 of *S. reilianum* affects phytoalexin induction in *Sorghum bicolor*** 17:30 - 17:30
Abstract Presenter: Lukas Dorian Dittiger, Friedrich Schiller University Jena, Jena, Germany
- P2.107 **Targeting pathogen evolution: a forward genetics approach to investigate gain of virulence in *Zymoseptoria tritici* against the resistant wheat cultivar Cougar** 17:30 - 17:30
Abstract Presenter: Lisa E Lamberte, University of Birmingham, Birmingham, United Kingdom
- P2.108 **Genomic features of the two life-cycle forms of Scots Pine Blister Rust fungus, *Cronartium pini*** 17:30 - 17:30
Abstract Presenter: Åke Olson, Swedish University of Agricultural Sciences, Uppsala, Sweden
- P2.109 **Comparative genomic approaches on germ tube length of *Sphaerulina musiva* under Alkene treatment enlightened a cysteine-rich chaperone protein** 17:30 - 17:30
Abstract Presenter: Alexandre Lassagne, Oregon State University, Corvallis, United States
- P2.110 **Revisiting the evolution and function of NIP2 parologs in the *Rhynchosporium spp.* complex** 17:30 - 17:30
Abstract Presenter: Megan McDonald, University of Birmingham, Birmingham, United Kingdom
- P2.111 **Identifying peptides translated from putative short open reading frames with LC-MS and de novo sequencing in wheat leaf rust** 17:30 - 17:30

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- Abstract Presenter: Christof Rampitsch, Agriculture and Agrifood Canada, Morden, Canada
- P2.112 **The maize late wilt pathogen *Magnaportheopsis maydis* interspecies interactions, and its combined influence with *Fusarium verticillioides*** 17:30 - 17:30
Abstract Presenter: Ofir Degani, MIGAL—Galilee Research Institute, Kiryat Shmona, Israel
- P2.113 **Compensatory pathogenicity mechanisms in *Parastagonospora nodorum* lacking major necrotrophic effectors** 17:30 - 17:30
Abstract Presenter: Shota Morikawa, Centre for Crop and Disease Management, Perth, Australia
- P2.114 **Order from disorder: a structurally disordered domain of PnPf2 is essential for regulation of virulence factors in a phytopathogenic fungus** 17:30 - 17:30
Abstract Presenter: Callum Verdonk, Curtin University, Perth, Australia
- P2.115 **The gene *CgEP4* encodes an effector that plays a key role in *Colletotrichum graminicola* virulence in maize** 17:30 - 17:30
Abstract Presenter: Pablo García Rodríguez, Universidad de Salamanca - Instituto de Investigación en Agrobiotecnología (CIALE), Villamayor, Spain
- P2.116 **Mycosporines in spore-type specific development and corn anthracnose spreading** 17:30 - 17:30
Abstract Presenter: Disha Rathi, Georg-August University Göttingen, Institute of Microbiology and Genetics, Germany
- P2.117 **Small-spored *Alternaria* infecting wild tomatoes show genetic and chemical diversity** 17:30 - 17:30
Abstract Presenter: Tamara Schmey, Christian-Albrechts-Universität zu Kiel, Kiel, Germany
- P2.118 **Genomic characterization of pathogenicity genes in *Colletotrichum* species affecting apple orchards in Northern Italy** 17:30 - 17:30
Abstract Presenter: Salvatore Iacono, University of Bologna, Bologna, Italy
- P2.119 **Tomato rot by *Rhizopus microsporus* alters native fungal community composition and secondary metabolite production** 17:30 - 17:30
Abstract Presenter: Mmanoko Napo, North-West University, Potchefstroom, South Africa
- P2.120 ***Zymoseptoria tritici* KP6 effectors interact with PR-14 (lipid transfer proteins)** 17:30 - 17:30
Abstract Presenter: Eli Thynne, Christian-Albrechts University, Kiel, Germany
- P2.121 **Genomics approach in analysis of *Fusarium* apple fruit rot** 17:30 - 17:30
Abstract Presenter: Mladen Petres, University of Novi Sad, Novi Sad, Serbia
- P2.122 **Disruption of the infection process of *Botrytis cinerea* and *Ciborinia camelliae* using common plant secondary metabolites** 17:30 - 17:30
Abstract Presenter: Gabriela Ricardo, Massey University, Palmerston North, New Zealand
- P2.123 **Impact of *Fusarium* species composition and incidence on onion basal rot in Northeastern Israel** 17:30 - 17:30
Abstract Presenter: Ofir Degani, MIGAL—Galilee Research Institute, Kiryat Shmona, Israel
- P2.124 **Aetiology, epidemiology and environmental influences on almond anthracnose in Portuguese orchards** 17:30 - 17:30

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	Abstract Presenter: Madalena Ramos, Instituto Superior de Agronomia, Lisboa, Portugal	
P2.125	New experimental tools for investigating the pathogenicity and endophytic behavior of <i>Diplodia sapinea</i> Abstract Presenter: Anne Geertje Oostlander, Technische Universität Braunschweig, Braunschweig, Braunschweig, Germany	17:30 - 17:30
P2.126	Functional adaptation of a transcriptional activator effector family in smut fungi Abstract Presenter: Weiliang Zuo, University of Cologne, Cologne, Germany	17:30 - 17:30
P2.1.27	Withdrawn	17:30 - 17:30
P2.128	Loop of unknown origin - Discovery of a novel 24 kb circular element harbouring viral-like genes in <i>Ascochyta</i> pathogens Abstract Presenter: Johannes Debler, Curtin University, Bentley, Australia	17:30 - 17:30
P2.129	BLASTOR: Investigating TOR-related signalling nodes to combat the rice blast fungus Abstract Presenter: Nathaniel YAKOBOV, Université de Genève, Genève, Switzerland	17:30 - 17:30
P2.130	The Vap1-Vip1-Vip2 complex of <i>V. dahliae</i> controls resting structure formation, secondary metabolism and virulence Abstract Presenter: Ying-Yu Chen, Georg-August-Universität Göttingen, Göttingen, Germany	17:30 - 17:30
P2.131	Biotechnological production of antifungal proteins (AFPs) in plants for crop and postharvest protection Abstract Presenter: Paloma Manzanares, Instituto de Agroquímica y Tecnología de Alimentos (IATA-CSIC), Palencia, Spain	17:30 - 17:30
P2.132	The evolution of pathogenicity in toxin-dependent necrotrophic plant pathogens Abstract Presenter: Motoichiro Kodama, Tottori University, Tottori, Japan	17:30 - 17:30
P2.133	A novel species-specific chloroplastic effector of <i>Colletotrichum graminicola</i> suppresses the early immune response in maize Abstract Presenter: Pablo García Rodríguez, Universidad de Salamanca - Instituto de Investigación en Agrobiotecnología (CIALE), Villamayor, Spain	17:30 - 17:30
P2.134	Unraveling the regulation of <i>Parastagonospora nodorum</i> effectors important in the infection of wheat Abstract Presenter: Timothy L. Friesen, Edward T. Schafer Agricultural Research Center, USDA-ARS, Fargo, United States	17:30 - 17:30
P2.135	Identification of accessory chromosome regions involved in the pathogenicity in the banana wilt pathogen, <i>Fusarium oxysporum</i> f. sp. <i>cubense</i> race 1 Abstract Presenter: Tsutomu Arie, Tokyo University of Agriculture and Technology (TUAT), Fuchu, Japan	17:30 - 17:30
P2.136	<i>Fusarium verticillioides</i> G protein-coupled receptors required for pathogenicity and fumonisin production Abstract Presenter: Daren Brown, USDA-ARS, Peoria, United States	17:30 - 17:30
P2.137	Interactions of the fungal pathogen <i>Ramularia collo-cygni</i> Abstract Presenter: Megan Burt, Heriot-Watt University, Edinburgh, United Kingdom	17:30 - 17:30

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P2.138	From the identification of new sources of resistance to late effectors to their introgression into modern oilseed rape varieties Abstract Presenter: Audren Jiquel, INRAE Bioger, Palaiseau, France	17:30 - 17:30
P2.139	Conserved function of a <i>Fusarium</i> homolog of the <i>Verticillium</i> effector <i>TRADE</i> for induction of host cell identity switches Abstract Presenter: Gagan Gupta, Georg August University Göttingen, Germany, Goettingen, Germany	17:30 - 17:30
P2.140	Regulation of the development of two types of plant surface penetration structures in <i>Botrytis cinerea</i> Abstract Presenter: Frank Pieterse, Wageningen University, Wageningen, Netherlands	17:30 - 17:30
P2.141	Investigating host targets of Zinc Finger Fold (ZiF) effectors in <i>Magnaporthe oryzae</i> for rice blast disease Abstract Presenter: Luyao Huang, The Sainsbury Laboratory, Norwich, United Kingdom	17:30 - 17:30
P2.142	Effector-mediated suppression of host immunity by <i>Zymoseptoria tritici</i>: insights into early infection strategies Abstract Presenter: Haider Ali, University of Birmingham, Birmingham, United Kingdom	17:30 - 17:30
P2.143	Determining the Sln1-mediated-turgor sensing complex and phosphohistidine landscape in the blast fungus <i>Magnaporthe oryzae</i> Abstract Presenter: Fabio Dos Santos Barbosa, The Sainsbury Laboratory, Norwich, United Kingdom	17:30 - 17:30
P2.144	Rice blast diversity in the Yuanyang Terraces Abstract Presenter: Pierre-Michel Marty, PHIM Plant Health Institute, Univ Montpellier, INRAE, CIRAD, Institut IRD, Montpellier, France	17:30 - 17:30
P2.145	Unravelling transcriptomic dynamics of fungal-host interaction in the <i>Botrytis cinerea</i> - strawberry pathosystem Abstract Presenter: Tânia R. Fernandes, GreenUPorto—Sustainable Agrifood Production Research Centre/Inovairão, Portugal	17:30 - 17:30
P2.146	Building a genetic map of aflatoxin biosynthesis to accelerate novel strategies for transgenic and biological Control Abstract Presenter: Kona Swift, University of Arkansas Division of Agriculture, Fayetteville, United States	17:30 - 17:30
P2.147	Optimization of the heterologous production of the antifungal protein PeAfpA from <i>Penicillium expansum</i> in a stirred-tank bioreactor Abstract Presenter: Sandra Garrigues, Institute of Agrochemistry and Food Technology (IATA-CSIC), Paterna (Valencia), Spain	17:30 - 17:30
P2.148	Heterologous expression and characterization of defensins from <i>Solanum lycopersicum</i> L Abstract Presenter: Liliána Tóth, University of Szeged, Szeged, Hungary	17:30 - 17:30
P2.149	Population genomics of the laminated root rot fungus <i>Coniferiporia</i> Abstract Presenter: Lluvia Vargas Gastelum, Oregon State University, Corvallis, United States	17:30 - 17:30
P2.150	Assessing new SSR markers for population structure and genetic diversity analysis of <i>Plenodomus tracheiphilus</i>, causing "mal secco" disease of citrus in Italy Abstract Presenter: Maria Aragona, Council for Agricultural Research and Economics (CREA), Rome, Italy	17:30 - 17:30

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P2.151	Weed seeds as hidden reservoirs: genomic insights into <i>Fusarium</i> species and their role in TR4 persistence and evolution in Philippine banana plantations	17:30 - 17:30
	Abstract Presenter: Lisanne Lotte Kottenhagen, Wageningen University and Research, Wageningen, Netherlands	
P2.152	Pleosporaceae: the evolution of plant pathogens	17:30 - 17:30
	Abstract Presenter: Serena Dool, CIRAD, Montpellier, France	
P2.153	Understanding the virulence of the soilborne hybrid <i>Verticillium longisporum</i> plant pathogen through genomic and evolutionary analysis	17:30 - 17:30
	Abstract Presenter: Georgios Tzelepis, Swedish University of Agricultural Sciences, Uppsala, Sweden	
P2.154	Identifying pathogenicity determinants of <i>Plenodomus tracheiphilus</i> via comparative <i>in vitro</i> and <i>in vivo</i> RNASeq analysis	17:30 - 17:30
	Abstract Presenter: Alessandro Grottoli, Council for Agricultural Research and Economics (CREA), Rome, Italy	
P2.155	Identification and characterization of core <i>Cercospora beticola</i> biotrophic effectors through pan-genomic analysis	17:30 - 17:30
	Abstract Presenter: Nathan Wyatt, USDA-ARS, Fargo, United States	
P2.156	Sources of genomic diversity in <i>Sclerotinia sclerotiorum</i> using a population from western Canada	17:30 - 17:30
	Abstract Presenter: Lone Buchwaldt, Agriculture and Agri-Food, Saskatoon, Canada	
P2.157	A study of population genetics in fungi of the genus <i>Diaporthe</i>	17:30 - 17:30
	Abstract Presenter: Dovilė Čepukoit, Nature Research Centre, Vilnius, Lithuania	
P2.158	<i>Pilidium lythri</i>: from tropical origins to temperate invasion - genomic sequencing and de novo assembly	17:30 - 17:30
	Abstract Presenter: Dominika Siegiada, Institute of Agrophysics, Polish Academy of Sciences, Lublin, Poland	
P2.159	Identification of inoculum reservoirs of the causal agent of almond anthracnose (<i>Colletotrichum godetiae</i>)	17:30 - 17:30
	Abstract Presenter: Madalena Ramos, Instituto Superior de Agronomia, Lisboa, Portugal	
P2.160	Recent advances in dissecting the molecular basis of the <i>Zymoseptoria tritici</i> - wheat interaction	17:30 - 17:30
	Abstract Presenter: Peter Solomon, The Australian National University, Canberra, Australia	
P2.161	Improvement of olive anthracnose management in prefecture of Chania, Crete	17:30 - 17:30
	Abstract Presenter: Matthaios M. Mathioudakis, Institute of Olive Tree, Chania, Greece	
P2.162	Transcriptomic impact of positive-sense RNA mycoviruses on <i>Botrytis cinerea</i> life cycle and pathogenicity in grapevine	17:30 - 17:30
	Abstract Presenter: Javier Pardo Medina, Centro de Biotecnología y Genómica de Plantas, Universidad Politécnica de Madrid (UPM)-Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria (INIA/CSIC), Madrid, Spain	
P2.163	<i>Pyricularia oryzae</i> shows high metabolic dynamics during plant infection	17:30 - 17:30
	Abstract Presenter: Marc-Henri LEBRUN, Université Paris-Saclay, Palaiseau, France	
P2.164	The contribution of Killer Protein-like 4 in <i>Fusarium graminearum</i> inter-specific competitive dynamics	17:30 - 17:30

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Abstract Presenter: Arianna Petrucci, University of Pisa, Pisa, Italy

P2.165 **Host specificity of *Sporisorium reilianum* is linked to clustered effector genes** 17:30 - 17:30

Abstract Presenter: Shivam Chaudhary, Friedrich Schiller University, Jena, Germany

P2.166 **Increased copper-resistance in the *Fusarium oxysporum* species complex** 17:30 - 17:30

Abstract Presenter: Manuel Sánchez López-Berges, Universidad de Córdoba, Córdoba, Spain

P2.167 **A smut hybrid provides insights into effector gene regulation and tumor formation of *Ustilago maydis*** 17:30 - 17:30

Abstract Presenter: Janina Werner, University of Cologne, Cologne, Germany

P2.168 **Exploring Zymoseptoria tritici AvrStb6 antimicrobial activity using computational and biochemical approaches** 17:30 - 17:30

Abstract Presenter: Liz Florez, Max Planck Institute for Evolutionary Biology, Plön, Germany

P2.169 **Investigating the role of fungal NLR genes in fungal-bacterial interactions** 17:30 - 17:30

Abstract Presenter: Jack A Rodgers, University of Birmingham, Birmingham, United Kingdom

P2.170 **Lem2-mediated tethering of telomeres to the nuclear periphery is essential for *Ustilago maydis* pathogenesis** 17:30 - 17:45

Abstract Presenter: Ramón Ramos Barrales, Universidad Pablo de Olavide/ Centro Andaluz de Biología del Desarrollo, Sevilla, Spain

Posters

17:30 - 19:00

Synthetic biology and biotechnology

P2.201 **Modification of *Fomes fomentarius* cell wall properties for the removal of beta lactam antibiotics from wastewater streams** 17:30 - 17:30

Abstract Presenter: Stephan Starke, TU Berlin, Berlin, Germany

P2.202 **Activity-based profiling of β -mannanases in *Aspergillus niger*** 17:30 - 17:30

Abstract Presenter: Massimo Tedeschi, Leiden University, Institute of Biology Leiden, Leiden, Netherlands

P2.203 **Mutations in the AmyR transcription factor leading to constitutive expression of starch degrading enzymes in *Aspergillus niger*** 17:30 - 17:30

Abstract Presenter: Jisca L. van Dam, Leiden University, Leiden, Netherlands

P2.204 17:30 - 17:30

Precision fermentation for reimagined cheese

Abstract Presenter: Sebastian Obermaier, Formo Bio GmbH, Frankfurt am Main, Germany

P2.205 **Screening edible fungal strains for antioxidant ergothioneine production in brewery side-streams** 17:30 - 17:30

Abstract Presenter: Emaan Jamil, Maynooth University, Maynooth, Ireland

P2.206 **Advancing CRISPR-Cas9 tools to mitigate the impact of a non-** 17:30 - 17:30

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native fungal pathogen on managed ecosystems

Abstract Presenter: Joanna Tannous, Oak Ridge National Laboratory, Oak Ridge, United States

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|--------|--|---------------|
| P2.207 | Development of Serine Recombinase-Assisted Genome Engineering (SAGE) in Fungi | 17:30 - 17:30 |
| P2.208 | Fungal Cutinase revisited: Expression and characterization of novel <i>Fusarium</i> Cutinases in <i>Aspergillus niger</i> and application in bioremediation
Abstract Presenter: Mark Arentshorst, Leiden University, Leiden, Netherlands | 17:30 - 17:30 |
| P2.209 | Reducing proteolytic activity of the filamentous fungus <i>Thermothelomyces heterothallica</i> C1
Abstract Presenter: Marika Vitikainen, VTT Technical Research Centre of Finland Ltd, Espoo, Finland | 17:30 - 17:30 |
| P2.210 | Improvement of monoclonal antibody production in <i>Thermothelomyces heterothallica</i> C1 by over-expression of folding and secretion related genes
Abstract Presenter: Mari Mäkinen, VTT Technical Research Centre of Finland Ltd, Espoo, Finland | 17:30 - 17:30 |
| P2.211 | Identification and characterization of enzymes involved in the tannic acid and gallic acid metabolism of <i>Aspergillus niger</i>
Abstract Presenter: Ronnie Lubbers, Leiden University, Institute Biology Leiden, Leiden, Netherlands | 17:30 - 17:30 |
| P2.212 | Development of a synthetic biology toolkit for heterologous gene expression in the oyster mushroom, <i>Pleurotus ostreatus</i>
Abstract Presenter: Pan Prasongpholchai, University of Warwick, Coventry, United Kingdom | 17:30 - 17:30 |
| P2.213 | Exploring the structural, biochemical and functional diversity of glycoside hydrolases family 12 from <i>Penicillium subrubescens</i>
Abstract Presenter: Peicheng Sun, Wageningen University & Research, Wageningen, Netherlands | 17:30 - 17:30 |
| P2.214 | The multipurpose cell factory <i>Aspergillus niger</i> can be engineered to produce hydroxylated collagen
Abstract Presenter: Tom Morris, Technische Universität Berlin, Berlin, Germany | 17:30 - 17:30 |
| P2.215 | Characterization of GH67 and GH115 α-1,2-glucuronidases (AGUs) for improvement of xylooligosaccharide production
Abstract Presenter: Lanyu Li, Utrecht University & Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands | 17:30 - 17:30 |
| P2.216 | Identification and functional analysis of the novel isomaltose sensor/transporter involved in the activation of the transcription factor AmyR in <i>Aspergillus nidulans</i>
Abstract Presenter: Da Min Jeong, Tohoku university, Sendai, Japan | 17:30 - 17:30 |
| P2.217 | Uncover the potential of secreted Luciferases expressed in <i>Aspergillus niger</i>: fusion-proteins and high-throughput screening
Abstract Presenter: Katharina J. Ost, Osnabrück University of Applied Sciences, Osnabrück, Germany | 17:30 - 17:30 |
| P2.218 | Exploring biological constraints in the production of disordered material proteins in the filamentous fungus <i>Trichoderma reesei</i>
Abstract Presenter: Tanja Paasela, VTT Technical Research Centre of Finland Ltd, Espoo, Finland | 17:30 - 17:30 |
| P2.219 | Improved hyphal dispersion strain of <i>Aspergillus oryzae</i> with decreased wall-growth in the liquid fermentation | 17:30 - 17:30 |

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Abstract Presenter: Shunya Susukida, Tohoku University, Sendai, Japan

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|--------|---|---------------|
| P2.220 | Engineering of the sugar transport system of <i>Saccharomyces cerevisiae</i> to increase fermentative efficiency of glucose and xylose | 17:30 - 17:30 |
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Abstract Presenter: Iasmin C. Taveira, University of São Paulo (USP), Ribeirão Preto, Brazil

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|--------|---|---------------|
| P2.221 | Harnessing <i>Pichia pastoris</i> for the production of hepatitis B virus D1 sub-genotype antigens | 17:30 - 17:30 |
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Abstract Presenter: Busel OZCAN, Acibadem Mehmet Ali Aydinlar University, Istanbul, Turkey

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| P2.222 | Effects of the polar growth-related genes on the growth and the regulation of cellulase expression in <i>Neurospora crassa</i> | 17:30 - 17:30 |
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Abstract Presenter: Lina Qin, Fujian Normal University, Fuzhou, China

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| P2.223 | High-throughput screening of filamentous fungi using solid substrates in droplets | 17:30 - 17:30 |
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Abstract Presenter: Mari Valkonen, VTT Technical Research Centre of Finland Ltd, Espoo, Finland

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|--------|---|---------------|
| P2.224 | A CRISPR/Cas9-based multicopy integration system for increased glucoamylase production in <i>Aspergillus niger</i> | 17:30 - 17:30 |
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Abstract Presenter: Jisca L. van Dam, Leiden University, Leiden, Netherlands

Posters

17:30 - 19:00

Fungi in sustainability

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|--------|---|---------------|
| P2.301 | Effects of <i>hap2</i> deletion on <i>mnp/vp</i> transcription in <i>Pleurotus ostreatus</i> grown on lignocellulosic substrates | 17:30 - 17:30 |
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Abstract Presenter: Keita Kayama, Institut Pasteur, Paris, France

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|--------|--|---------------|
| P2.302 | Amplicon sequencing, isolation, and fermentative evaluation of yeast collected from diverse glacial microhabitats of the Svalbard archipelago | 17:30 - 17:30 |
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Abstract Presenter: Andrew Triska, Clemson University, Clemson, United States

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|--------|--|---------------|
| P2.303 | Entomopathogenic activity of <i>Trichoderma erinaceum</i> against <i>Tetranychus urticae</i>: growth stimulation in <i>Capsicum chinense</i> (Habanero pepper) to reduce the impact of synthetic insecticides | 17:30 - 17:30 |
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Abstract Presenter: Denis Magaña-Ortiz, Tecnológico Nacional de México/Campus Merida, Merida, Mexico

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| P2.304 | On the Trail of Sustainable Wood Recycling: Insights from <i>Trametes sanguinea</i>-Mediated Wood Degradation | 17:30 - 17:30 |
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Abstract Presenter: Antea Dulaj, Institute for Biotechnology and Drug Research (IBWF), Mainz, Germany

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| P2.305 | Evaluation of the white rot fungus <i>Phlebia radiata</i> for the application in the re-valorization of softwood Kraftlignin | 17:30 - 17:30 |
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Abstract Presenter: Lara Schön, Institute for Biotechnology and Drug Research (IBWF), Mainz, Germany

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| P2.306 | Degradation of the hazardous chemical 2-mercaptobenzothiazole by filamentous fungi | 17:30 - 17:30 |
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Abstract Presenter: Klemens Heeb, Institute for Biotechnology and Drug Research (IBWF), Mainz, Germany

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| P2.307 | <i>Streptomyces</i> small laccase expressed in <i>Aspergillus niger</i> as a | 17:30 - 17:30 |
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new addition for the lignocellulose bioconversion toolbox

Abstract Presenter: Peter Punt, Leiden University, Leiden, Netherlands

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|--------|---|---------------|
| P2.308 | Co-application of spent mushroom compost and arbuscular mycorrhizal fungi on field wheat enhances yield, but reduces mineral nutrient concentration of grain | 17:30 - 17:30 |
| | Abstract Presenter: Joseph Carrara, United States Department of Agriculture, Wyndmoor, United States | |
| P2.309 | Harnessing filamentous fungi for enzyme cocktail production through rice bran bioprocessing | 17:30 - 17:30 |
| | Abstract Presenter: Ana M. Yélamos, Institute of Agrochemistry and Food Technology, Paterna (Valencia), Spain | |
| P2.310 | AMF inoculation enhances nutrient uptake and growth of industrial fiber hemp | 17:30 - 17:30 |
| | Abstract Presenter: Wade Heller, USDA-ARS, Eastern Regional Research Center, Wyndmoor, United States | |
| P2.311 | The enzymatic repertoire of the white-rot fungus <i>Dichomitus squalens</i> for the degradation of lignin-carbohydrate complexes | 17:30 - 17:30 |
| | Abstract Presenter: Angel Zhang, University of Helsinki, Helsinki, Finland | |
| P2.312 | Establishing <i>Aspergillus niger</i> as a production system for azaphilone colourants from fungi | 17:30 - 17:30 |
| | Abstract Presenter: Friederike Hoberg, Technische Universität Berlin, Berlin, Germany | |
| P2.313 | Development of a PEG-based transformation protocol for CRISPR-mediated genome editing in <i>Fomes fomentarius</i> | 17:30 - 17:30 |
| | Abstract Presenter: Carmen Regner, Technische Universität Berlin, Berlin, Germany | |

Conference Dinner

19:00 - 21:00

BO 1

Conference Dinner in Taylors Three Rock

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Wednesday, March 5, 2025

Plenary

09:00 - 10:45

BO 1

Plenary Session 3

Chairs: Özgür Bayram, Maynooth University, Maynooth, Ireland

Chairs: Maria Tuohy, University of Galway, Galway, Ireland

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|-------|--|---------------|
| PS3.1 | Evolution and ecological roles of isocyanides and their biosynthetic gene clusters | 09:00 - 09:45 |
| | Plenary Speaker: Nancy Keller, University of Wisconsin, Madison, United States | |
| PS3.2 | Linking fungal RNA biology with development and metabolism | 09:45 - 10:15 |
| | Plenary Speaker: Michael Feldbrügge, University of Dusseldorf, Dusseldorf, Germany | |
| PS3.3 | The role of transcription factors and chromatin modifiers in multicellular development in ascomycetes | 10:15 - 10:45 |
| | Plenary Speaker: Minou Nowrousian, Ruhr University Bochum, Bochum, Germany | |

Break

10:45 - 11:15

Tea and Coffee Break - Liffey A

Plenary

11:15 - 12:45

BO 1

Plenary Session 3

Chairs: Maria Tuohy, University of Galway, Galway, Ireland

Chairs: Özgür Bayram, Maynooth University, Maynooth, Ireland

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|-------|--|---------------|
| PS3.4 | Panning for Gold in Mould Downunder: Can we increase the odds for fungal genome mining? | 11:15 - 11:45 |
| | Plenary Speaker: Yit Heng Chooi, University of Western Australia, Perth, Australia | |
| PS3.5 | Microtubule-based organelle distribution inside a fungal hypha | 11:45 - 12:15 |
| | Plenary Speaker: Xin Xiang, Uniformed Services University, Bethesda, United States | |
| PS3.6 | Fungal diversity and adaptations highlight enzymatic systems for the retrieval of carbon from highly recalcitrant plant tissues | 12:15 - 12:45 |
| | Plenary Speaker: Marie-Noëlle Rosso, INRAE Institut national de recherche pour l'agriculture, l'alimentation et l'environnement, Paris, France | |

Industry / Lunch Break

12:45 - 14:30

BO 1

Lunch Break and Industry Sessions

Other

12:45 - 14:00

BO 6

ISC Lunch Meeting

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Posters

12:45 - 14:30

Stress responses

- | | | |
|--------|---|---------------|
| P3.601 | Relationships between detoxification enzymes of white-rot fungi and their chemical environment
Abstract Presenter: Eric Gelhaye, INRAE, Nancy, France | 12:45 - 12:45 |
| P3.602 | Exploring the HOG pathway mediated stress response in <i>Aureobasidium pullulans</i>
Abstract Presenter: Zainab Abdul Qayyum, TU Wien, Wien, Austria | 12:45 - 12:45 |
| P3.603 | Elucidating the role of <i>N</i>-deglycosylating enzymes in <i>Neurospora crassa</i> physiology
Abstract Presenter: Anastasios Samaras, Swedish University of Agricultural Sciences, Uppsala, Sweden | 12:45 - 12:45 |
| P3.604 | Stress-responsive <i>Afu4g10610</i> gene plays a role in cell wall maintenance and osmotic regulation in <i>Aspergillus fumigatus</i>
Abstract Presenter: Eduardo Pelegri Martinez, University of the Basque Country (UPV/EHU), Leioa, Spain | 12:45 - 12:45 |
| P3.605 | The oxylipin-responsive transcription factor <i>ZfpA</i> mediates tolerance against fungicidal tip lysis by β-1,3-glucan synthase targeting antifungals in <i>A. fumigatus</i>
Abstract Presenter: Dante Calise, University of Wisconsin - Madison, Madison, United States | 12:45 - 12:45 |
| P3.606 | Functional characterization of sugar transporters from <i>Neurospora crassa</i> and their involvement in coping with stress conditions
Abstract Presenter: Elisabeth Tamayo, Technical University of Munich, Freising, Germany | 12:45 - 12:45 |
| P3.607 | Gene family expansions contribute to oxidative stress resistance across diverse yeasts
Abstract Presenter: Linda Horianopoulos, University of Wisconsin-Madison, Madison, United States | 12:45 - 12:45 |
| P3.608 | Transcriptome analysis of <i>Aspergillus oryzae</i> under exposure to fungistatic compounds of lignocellulosic side streams
Abstract Presenter: Miika Korpioja, VTT Technical Research Centre of Finland, Espoo, Finland | 12:45 - 12:45 |
| P3.609 | <i>Set1</i>-mediated H3K4 methylation is required for <i>Candida albicans</i> virulence by regulating intracellular level of reactive oxygen species
Abstract Presenter: Soomin Choi, Korea University, Seoul, Korea, Republic of | 12:45 - 12:45 |
| P3.610 | Transcriptional profiling reveals the role of <i>Candida albicans</i> <i>Rap1</i> in oxidative stress response
Abstract Presenter: Hsuan-Yu Chen, National Tsing Hua University / Institute of Molecular and Cellular Biology, Hsinchu, Taiwan, China | 12:45 - 12:45 |
| P3.611 | <i>Neurospora crassa</i> through the lenses of stress adaptation - the role of transcription factor <i>CCG8</i> in vitro as well as in <i>Galleria melonella</i> larvae
Abstract Presenter: Ján Víglaš, Institute of Biochemistry and Microbiology, Slovak University of Technology in Bratislava, Bratislava, Slovakia | 12:45 - 12:45 |
| P3.612 | Exploring glycerol transport and function in <i>Neurospora crassa</i>
Abstract Presenter: Basant Nada, Technical University of Munich, Freising, Germany | 12:45 - 12:45 |

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P3.613	Growth response of <i>Aspergillus oryzae</i> to soil component humic acid and elucidation of its mechanism	12:45 - 12:45
	Abstract Presenter: Kanae Sakai, Osaka University, Suita, Japan	
P3.614	The oxidative stress response of <i>Neurospora crassa</i> in the presence of green tea catechins	12:45 - 12:45
	Abstract Presenter: Katarína Hollá, Institute of Food Science and Nutrition, Slovak University of Technology, Bratislava, Slovakia	
P3.615	Effects of the <i>Cryptococcus neoformans</i> high Cu stress response on fungal pathogenesis	12:45 - 12:45
	Abstract Presenter: Corinna Probst, Duke University, School of Medicine, Durham, United States	
P3.616	Responding to cell surface damage in <i>Candida albicans</i>	12:45 - 12:45
	Abstract Presenter: Louis Chevalier, University Côte d'Azur - CNRS - INSERM, Nice, France	
P3.617	Characterization of a stress-induced circadian clock in <i>Alternaria alternata</i>	12:45 - 12:45
	Abstract Presenter: Johannes Groß, Karlsruhe Institute of Technology, Baden-Württemberg, Germany	

Posters

12:45 - 14:30

Fungal development and morphogenesis

P3.101	The sequestration and spatiotemporal distribution of the germline in a mushroom-forming fungus	12:45 - 12:45
	Abstract Presenter: Peter Jan Vonk, Stockholm University, Stockholm, Sweden	
P3.102	Identification of two new genes controlling dimorphism in <i>Mucorales</i>	12:45 - 12:45
	Abstract Presenter: Gabriel Navarro Del Saz, Universidad de Murcia, Facultad de Biología, Murcia, Spain	
P3.103	Discovery and characterization of the first fungal granulin in <i>Aspergillus fumigatus</i>	12:45 - 12:45
	Abstract Presenter: Uxue Perez-Cuesta, University of Tennessee Health Science Center, Memphis, United States	
P3.104	Early hyphal differentiation in the fruiting pathway of the model basidiomycete <i>Coprinopsis cinerea</i>	12:45 - 12:45
	Abstract Presenter: Shanta Subba, Georg-August University of Göttingen, Göttingen, Germany	
P3.105	Developmental gene expression and genome evolution in the shift from asexual propagation to sexual resistance in <i>Neurospora crassa</i>	12:45 - 12:45
	Abstract Presenter: Jennifer R. Wang, Yale School of Public Health, New Haven, United States	
P3.106	Control of conidiation in the genus <i>Aspergillus</i>: on the centrality and specificity of the master regulator BrlA	12:45 - 12:45
	Abstract Presenter: Oier Etxebeste, Laboratory of Microbiology, Faculty of Chemistry, University of the Basque Country, San Sebastian, Spain	
P3.107	Deciphering the biological role of oxidative chitin-active CAZymes in the life cycle of the plant pathogen <i>Ustilago maydis</i>	12:45 - 12:45
	Abstract Presenter: Roseline Assiah Yao, INRAE, Aix Marseille Univ, BBF, Biodiversité et Biotechnologie Fongiques, Marseille, France	

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P3.108	Substrate-driven plasticity in ectomycorrhizal fungi cell wall architecture: new insights into host-fungal interactions	12:45 - 12:45
	Abstract Presenter: Tomas Rush, Oak Ridge National Laboratory, Oak Ridge, United States	
P3.109	The role of Knh1 in conidiogenesis in <i>Bipolaris maydis</i>	12:45 - 12:45
	Abstract Presenter: Kenya Tsuji, Kyoto University, Kyoto, Japan	
P3.110	Unraveling the role of the transcription factor Con7 in the morphogenesis of <i>Coprinopsis cinerea</i>	12:45 - 12:45
	Abstract Presenter: Hongli WU, HUN-REN Biological Research Centre, Szeged, Hungary	
P3.111	Engineered lifestyle switch in <i>Botrytis cinerea</i>	12:45 - 12:45
	Abstract Presenter: Dian Zheng, Wageningen University and Research, Wageningen, Netherlands	
P3.112	Engineering meiotic drive in <i>Botrytis cinerea</i>	12:45 - 12:45
	Abstract Presenter: Dian Zheng, Wageningen University and Research, Wageningen, Netherlands	
P3.113	TU MyCo-Vision: a deep-learning cell detection tool to navigate the landscape of morphological diversity in pleomorphic fungi	12:45 - 12:45
	Abstract Presenter: Kartik Deopujari, TU Wien, Vienna, Austria	
P3.114	Disruption of protein kinase A catalytic subunit gene <i>pkac2</i> enhances mycelial dispersion and wood degrading enzyme production in <i>Pleurotus ostreatus</i>	12:45 - 12:45
	Abstract Presenter: Yuitsu Otsuka, Kyoto University, Kyoto, Japan	
P3.115	Duplication of a septin might have contributed to early expansion of fruiting body hyphae in Agaricales	12:45 - 12:45
	Abstract Presenter: Máté Virág, HUN-REN Biological Research Centre, Szeged, Szeged, Hungary	
P3.116	Genetic differentiation in the MAT-proximal region is not sufficient for suppressing recombination in <i>Podospora anserina</i>	12:45 - 12:45
	Abstract Presenter: Pierre Grognet, Université Paris-Saclay, Gif-sur-Yvette, France	
P3.117	Asexual development of <i>A. nidulans</i> required the shuttle of the VeA velvet domain regulator from cytoplasm to nucleus and back	12:45 - 12:45
	Abstract Presenter: Anja Strohdiek, Georg-August-University Göttingen, Göttingen, Germany	
P3.118	Kinesin-3 motor KIN3 plays a crucial role in sexual development of <i>Podospora anserina</i>	12:45 - 12:45
	Abstract Presenter: Fernando Hernández Sánchez, Instituto de Fisiología Celular, Universidad Nacional Autónoma de México, CDMX, Mexico	
P3.119	Functional characterization of the Target of Rapamycin signalling pathway in the rice blast fungus <i>Magnaporthe oryzae</i>	12:45 - 12:45
	Abstract Presenter: Matthew Wengler, The Sainsbury Laboratory, Norwich, United Kingdom	
P3.120	Homeodomain transcription factor is essential for toxocyst formation in the oyster mushroom <i>Pleurotus ostreatus</i>	12:45 - 12:45
	Abstract Presenter: Sheng-Chian Juan, Max Planck Institute for Biology, Tübingen, Germany	
P3.121	Innovative tools for recombinant protein production by <i>Myceliophthora thermophila</i>	12:45 - 12:45
	Abstract Presenter: Lisa Wasserer, Bisys GmbH, Hofstaetten an der Raab, Austria	

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P3.122	Identification of the causative gene for abnormal appressorium formation accompanied by hyphal elongation in <i>Bipolaris maydis</i> Abstract Presenter: Akira Yoshimi, Kyoto University, Kyoto, Japan	12:45 - 12:45
P3.123	A HOG/CWIS pathways transcription factor Skn7 regulates cell wall formation through hydrophobin Hydph16 in <i>Pleurotus ostreatus</i> Abstract Presenter: Takaya Izumi, Kyoto University, Kyoto, Japan	12:45 - 12:45
P3.124	Dark stipe mutants in fruiting body development of <i>Coprinopsis cinerea</i> Abstract Presenter: Shanta Subba, Georg-August University of Göttingen, Göttingen, Germany	12:45 - 12:45
P3.125	Generation of filamentous <i>Candida albicans</i> and <i>Candida auris</i> cells in liquid, shaken culture to study the mechanism of action of antifungal proteins Abstract Presenter: László Galgóczy, University of Szeged, Szeged, Hungary	12:45 - 12:45
P3.126	Methods for mating and fruiting body formation of the basidiomycete <i>Fomes fomentarius</i> under laboratory conditions Abstract Presenter: Carsten Freidank-Pohl, Technische Universität Berlin, Berlin, Germany	12:45 - 12:45
P3.127	Efficient protoplast preparation method of <i>Aspergillus</i> section <i>Nigri</i> using α-1,3-glucanase and α-1,3-glucan synthesis gene disruption strain Abstract Presenter: Jikian Tokashiki, Tohoku, Sendai, Japan	12:45 - 12:45
P3.128	Proteomic analyses of liquid droplets excreted by mushroom forming fungi Abstract Presenter: Ursula Kües, Georg-August University of Göttingen, Göttingen, Germany	12:45 - 12:45
P3.129	Phenotypic and genetic variation of <i>Coprinellus disseminatus</i> Abstract Presenter: Ursula Kües, Georg-August University of Göttingen, Göttingen, Germany	12:45 - 12:45
P3.130	The role of RNA editing in ascospore formation and physiology in <i>Sordaria macrospora</i> Abstract Presenter: Stephanie Herzog, University of Goettingen, Goettingen, Germany	12:45 - 12:45
P3.131	Evolutionary transcriptomics to understand conidial development and germination of pathogenic and non-pathogenic <i>Aspergillus</i> species Abstract Presenter: Pin Wu, University of Macau, Macao, China	12:45 - 12:45
P3.132	Unusual segregation patterns and potential DNA repair mechanism in mRNA-destabilizing mutants of <i>Neurospora crassa</i> Abstract Presenter: Hamzeh Haj Hammadeh, Max Planck Institute for Heart and Lung Research, Bad Nauheim, Germany	12:45 - 12:45
P3.133	Hyphal cell fate control by the Ndr kinase Cbk1 in <i>C. albicans</i> Abstract Presenter: Jaime Correa Bordes, Universidad de Extremadura, Badajoz, Spain	12:45 - 12:45
P3.134	Antagonistic Pathways of Lipid Transfer Proteins (LTPs) for <i>de novo</i> Membrane Assembly in Fission Yeast Abstract Presenter: Miguel Basante-Bedoya, University of Geneva, Geneva, Switzerland	12:45 - 12:45

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Posters

12:45 - 14:30

Poster Session 3

Posters

12:45 - 14:30

Cellular biology of fungi

P3.201	Role of checkpoint kinases in regulating <i>Neurospora</i> circadian clock under DNA damage stress	12:45 - 12:45
	Abstract Presenter: Xiao Liu, Institute of Microbiology, Chinese Academy of Sciences, Beijing, China	
P3.202	Genomic variations causing mating preferences of wild fission yeast strains	12:45 - 12:45
	Abstract Presenter: Sjoerd J. Seekles, University of Geneva, Geneva, Switzerland	
P3.203	Using the CRISPR/Cas9 system for GFP-tagging of endogenous genes in <i>Neurospora crassa</i>	12:45 - 12:45
	Abstract Presenter: Stefanie Grüttner, CAU Kiel/Botanical Institute, Kiel, Germany	
P3.204	Targeted screening of the budding yeast genome reveals <i>PCP1</i>, a mitochondrial serine protease on chromosome VII, is highly susceptible to position effects	12:45 - 12:45
	Abstract Presenter: James Arnone, Le Moyne College, Syracuse, United States	
P3.205	Distinct trafficking routes of polarized and non-polarized membrane cargoes in <i>Aspergillus nidulans</i>	12:45 - 12:45
	Abstract Presenter: Xenia Georgiou, University of Athens, Athens, Greece	
P3.206	Genome wide exploring the autophagy-related genes in filamentous fungi and the functional characterization of <i>atg1</i> and <i>atg5</i> in <i>Neurospora crassa</i>	12:45 - 12:45
	Abstract Presenter: Meng Yuan, Tianjin Institute of Industrial Biotechnology, Chinese Academy of Sciences, T China	
P3.207	Use of the GCaMP reporter to investigate calcium dynamics in <i>Candida albicans</i>	12:45 - 12:45
	Abstract Presenter: Alexandra Brand, University of Exeter, Exeter, United Kingdom	
P3.208	Molecular interactions and functional role of the essential protein <i>TEA-5</i> in polarized growth of <i>Neurospora crassa</i>	12:45 - 12:45
	Abstract Presenter: Rosa R. Mouriño-Pérez, Centro de Investigación Científica y de Educación Superior de Ensenada, Mexico	
P3.209	A comparative evaluation of CRISPR-Cas9 allele editing systems in <i>Candida auris</i>: challenging research in a challenging bug	12:45 - 12:45
	Abstract Presenter: Dimitrios Sofras, KU Leuven, Leuven, Belgium	
P3.210	Rust fungi (Pucciniales) exhibit diploid nuclei throughout their life cycles	12:45 - 12:45
	Abstract Presenter: Rita Domingues Carvalho, John Innes Centre, Norwich, United Kingdom	
P3.211	The BEM46 protein at the crossroads of polarity maintenance, auxin biosynthesis and endophytic growth of <i>Neurospora crassa</i>: a	12:45 - 12:45

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working model

Abstract Presenter: Krisztina Kollath-Leiss, CAU zu Kiel, Kiel, Germany

P3.212	The role of cell wall remodeling in early divergent Mucoromycotina response to bacterial and plant defenses	12:45 - 12:45
	Abstract Presenter: Hana Barrett, Cornell University, Ithaca, United States	
P3.213	MAT Loci in the mortierellaceae: genomic, empirical and molecular evidence	12:45 - 12:45
	Abstract Presenter: Kyle Mondron, Oregon State University, Corvallis, United States	
P3.214	Fungal protein required for kinesin-1-mediated dynein localization at the microtubule plus ends	12:45 - 12:45
	Abstract Presenter: Rongde Qiu, Uniformed Services University of the Health Sciences, Bethesda, United States	
P3.215	Ctr9, a subunit of Paf1 complex, promotes the pathogenicity of Candida albicans by regulating methionine metabolism	12:45 - 12:45
	Abstract Presenter: Shinae Park, Kangwon National University, Chuncheon-si, Korea, Republic of	
P3.216	Dominant negative effect on UPR and RIDD by expression of RNase-inactive IreA in Aspergillus oryzae	12:45 - 12:45
	Abstract Presenter: Masaki Yokoyama, Tohoku University, Sendai, Japan	
P3.217	The alkaline protease PrtA as a model secreted protein in the intra and extracellular trafficking mediated by SlitA and the retromer	12:45 - 12:45
	Abstract Presenter: Eduardo A Espeso, Centro Investigaciones Biologicas Margarita Salas, CSIC, Madrid, Spain	
P3.218	Differential interaction dynamics and cellular uptake of fungal Antifungal Proteins (AFPs) and engineered AFP chimeras	12:45 - 12:45
	Abstract Presenter: Jose F. Marcos, Instituto de Agroquímica y Tecnología de Alimentos (IATA-CSIC), Paterna, Spain	
P3.219	Role of kinesin-3 and of the Hook1 adaptor in early endosome and peroxisome transport in Podospora anserina	12:45 - 12:45
	Abstract Presenter: Leonardo Peraza Reyes, Universidad Nacional Autonoma de Mexico, UNAM, Mexico City, Mexico	
P3.220	The lipid flippases Drs2 and Neo1 have distinct functions in Candida albicans	12:45 - 12:45
	Abstract Presenter: Stephanie Bogliolo, University Côte d'Azur - CNRS - INSERM, Nice, France	
P3.221	Genetic dissection of the role of proteins associated with ER-PM contacts in Aspergillus nidulans: VapA is essential for growth and polarized recycling of lipid flippases	12:45 - 12:45
	Abstract Presenter: Xenia Georgiou, University of Athens, Athens, Greece	
P3.222	Understanding loss of thermotolerance in two Cryptococcus gattii VGI isolates	12:45 - 12:45
	Abstract Presenter: Qinxin Ma, University of Exeter, Exeter, United Kingdom	
P3.223	Functional analysis of maltose/isomaltose transporters using the nuclear translocation assay of the transcription factor AmyR in Aspergillus oryzae	12:45 - 12:45
	Abstract Presenter: Shoki Fujita, Tohoku University, Sendai, Japan	
P3.224	Microfluidic control reveals chemotropism of fungal hyphae to nutrients and pH	12:45 - 12:45

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Abstract Presenter: Norio Takeshita, University of Tsukuba, Tsukuba, Japan

P3.225 **RNA-binding protein SsdA shows dynamic localisation and transport during hyphal growth in *Aspergillus nidulans*** 12:45 - 12:45

Abstract Presenter: Edward W.J. Wallace, University of Edinburgh, Edinburgh, United Kingdom

P3.226 **In *Candida albicans*, manganese homeostasis modulates cell wall unmasking through Smf12 and calcineurin pathway** 12:45 - 12:45

Abstract Presenter: Manon Henry, Université de Montréal, Montréal, Canada

P3.227 **Initiation of endosymbiosis in *Rhizopus microsporus* indicates a shift from antagonism to commensalism** 12:45 - 12:45

Abstract Presenter: Thomas Gassler, ETH Zurich / Institute of Microbiology, Zurich, Switzerland

Abstract Presenter: Alannah Holderbusch, ETH Zurich / Institute of Microbiology, Zurich, Switzerland

P3.228 **Endocytosis in *Aspergillus nidulans*** 12:45 - 13:00

Abstract Presenter: Miguel Angel Penalva, CSIC Centro de Investigaciones Biologicas Margarita Salas, Madrid

Posters

12:45 - 14:30

Fungal secondary metabolism

P3.301 **Comprehensive RNA-seq analysis of regulatory genes controlled by KERS complex linked to morphogenesis and secondary metabolism in *Aspergillus flavus*** 12:45 - 12:45

Abstract Presenter: Saba Shabeer, Maynooth University, Maynooth, Ireland

P3.302 **Unveiling basidiomycete biosynthetic potential for sustainable chemical production** 12:45 - 12:45

Abstract Presenter: Therese Horsch, Technical University of Denmark, Lyngby, Denmark

P3.303 **Combination of RNA and ChIP-seq reveals target regulatory genes controlled by the MERCK histone demethylase complex in *Aspergillus nidulans*** 12:45 - 12:45

Abstract Presenter: Pranay Agarwal, Maynooth University, Maynooth, Ireland

P3.304 **Understanding secondary metabolite production based on biosynthetic gene cluster-specific transcription factor binding targets** 12:45 - 12:45

Abstract Presenter: Lu Fan, University of Macau, Macau, China

P3.305 **Investigation of biosynthetic gene clusters associated with mycotoxin production in *Penicillium* species isolated from chestnuts** 12:45 - 12:45

Abstract Presenter: Marco Garelli, University of Turin, Grugliasco, Italy

P3.306 **Cross-kingdom interactions of *Ustilago* and *Pseudomonas* via secondary metabolites** 12:45 - 12:45

Abstract Presenter: Pascal Künzel, Forschungszentrum Jülich, Jülich, Germany

P3.307 **Overexpression of a truncated HMG coA reductase in *Fusarium fujikuroi*** 12:45 - 12:45

Abstract Presenter: M. Carmen Limón, Universidad de Sevilla, Sevilla, Spain

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P3.308	Biosynthetic landscape of Pezizomycotina and its link to fungal lifestyle Abstract Presenter: Anna Pasinato, University of Padua, Padua, Italy	12:45 - 12:45
P3.309	Biocontrol fungi: pest antagonists or bioactive secondary metabolite factories? Abstract Presenter: Luis Vicente Lopez-Llorca, University of Alicante, Alicante, Spain	12:45 - 12:45
P3.310	The ecology of penicillin production in <i>Penicillium chrysogenum</i> Abstract Presenter: Anne Hatmaker, USDA-ARS, Saint Paul, United States	12:45 - 12:45
P3.311	Saintopin biosynthesis implies a non-canonical polyketide cyclization mechanism Abstract Presenter: Carsten Wieder, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany	12:45 - 12:45
P3.312	Combination of RNA and ChIP-seq reveals regulatory genes of fungal morphogenesis and secondary metabolism controlled by the chromatin binding KERS complex in <i>Aspergillus nidulans</i> Abstract Presenter: Tri-Thuc Bui, Maynooth University, Maynooth, Ireland	12:45 - 12:45
P3.313	Identification of a biosynthetic gene cluster involved in the production of red pigments in <i>Pseudogymnoascus verrucosus</i> of Antarctic origin Abstract Presenter: Inmaculada Vaca, Universidad de Chile, Santiago, Chile	12:45 - 12:45
P3.314	Discovery and biosynthesis of antifungal polyhydroxy-polyketide acrophialocinol Abstract Presenter: Moritz Kuenzer, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany	12:45 - 12:45
P3.315	Characterization of key elements in ochratoxin A biosynthesis in <i>Aspergillus steynii</i> through heterologous expression in <i>Aspergillus nidulans</i> Abstract Presenter: Eduardo A Espeso, Centro Investigaciones Biologicas Margarita Salas, CSIC, Madrid, Spain	12:45 - 12:45
P3.316	Analysis of the ophiobolin biosynthetic gene cluster in <i>Bipolaris maydis</i> Abstract Presenter: Shintaro Kanzaki, Kyoto University, Kyoto, Japan	12:45 - 12:45
P3.317	LaeA is a positive regulator of the biosynthesis of relevant specialized metabolites in <i>Penicillium roqueforti</i> Abstract Presenter: Renato Chávez, Universidad de Santiago de Chile (USACH), Santiago, Chile	12:45 - 12:45
P3.318	Activation of cryptic biosynthetic gene clusters through genetic manipulation of global regulator mcrA in <i>Penicillium expansum</i> Abstract Presenter: Alexandria LaCorte, University of Southern California, Los Angeles, United States	12:45 - 12:45
P3.319	Activation of a sorbicillinoid pathway through deletion of mcrA in <i>Penicillium rubens</i> YAP001 Abstract Presenter: Stella Dziedzic, University of Southern California, Los Angeles, United States	12:45 - 12:45
P3.320	Identification of metabolites from a bacterium isolated from sugar beet leaves that inhibits the fungus <i>Cercospora beticola</i> Abstract Presenter: Daniel Back, USDA, Fargo, United States	12:45 - 12:45
P3.321	Genetic manipulation of global regulator mcrA in <i>Penicillium</i>	12:45 - 12:45

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rubens to generate a natural product library for high throughput bioactivity screening

Abstract Presenter: Thea Millam, University of Southern California, Los Angeles, United States

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| P3.322 | Enhancing secondary metabolite production in <i>Penicillium camemberi</i> through genetic manipulation of global regulator <i>mcrA</i> for high-throughput screening | 12:45 - 12:45 |
| | Abstract Presenter: Abigail Shih, Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences, University of Southern California, Los Angeles, United States | |
| P3.323 | Extraction and derivatization of chaetoglobosin A from <i>Chaetomium globosum</i> for anti-cancer therapy | 12:45 - 12:45 |
| | Abstract Presenter: Pei Fang Chiu, University of Southern California, Los Angeles, United States | |
| P3.324 | RIPing it out! Whole-genome investigation uncovers RIPP hidden diversity in lichens | 12:45 - 12:45 |
| | Abstract Presenter: Anna Pasinato, University of Padua, Padua, Italy | |
| P3.325 | A role for melanin and perylene quinones for abiotic and biotic stress tolerance | 12:45 - 12:45 |
| | Abstract Presenter: Jia Gao, Karlsruhe Institute of Technology, Institute for Applied Biosciences, Karlsruhe, Germany | |
| P3.326 | What are the real products of BGCs? Activation of silent fungal biosynthetic gene yields different metabolites than heterologous expression | 12:45 - 12:45 |
| | Abstract Presenter: Christian Zimmermann, TU Wien, Vienna, Austria | |
| P3.327 | Metabolic engineering of <i>Aspergillus violaceofuscus</i> | 12:45 - 12:45 |
| | Abstract Presenter: Clara Laubenstein, Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz, Germany | |
| P3.328 | An environmental isolate of <i>Pseudomonas</i>, 20E11, reduces <i>Aspergillus flavus</i> growth in an iron-dependent manner and alters secondary metabolism | 12:45 - 12:45 |
| | Abstract Presenter: Ana M Calvo, Northern Illinois University, DeKalb, United States | |

Posters

12:45 - 14:30

Symbionts and endophytes

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|--------|--|---------------|
| P3.501 | From symbiont to pathogen: the effects of plant lipid metabolism in the lifestyle of <i>Colletotrichum tofieldiae</i> | 12:45 - 12:45 |
| | Abstract Presenter: Jorge Luis Hernández Ayala, University of Cologne, Cologne, Germany | |
| P3.502 | Comparative analysis of the transcriptome of the beneficial endophyte <i>Colletotrichum tofieldiae</i> in maize and <i>Arabidopsis thaliana</i> | 12:45 - 12:45 |
| | Abstract Presenter: Soledad Sacristán, Universidad Politécnica de Madrid, Madrid, Spain | |
| P3.503 | Analysis of arbuscular mycorrhizal fungi and <i>Candidatus Moenioplasma glomeromycetorum</i> levels in the grassland roots in response to drought | 12:45 - 12:45 |
| | Abstract Presenter: Zeyu Niu, University College Dublin, Dublin, Ireland | |
| P3.504 | Exploring plant-fungal interactions: insights from <i>Neurospora</i> | 12:45 - 12:45 |

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crassa* and *Brachypodium distachyon

Abstract Presenter: Hannes Winter, Christian-Albrechts-University, Kiel, Germany

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| P3.505 | Interactions between grazing, abiotic factors, and fungal communities: insights from reanalysis using virtual taxons
Abstract Presenter: Erla Olsen, University of the Faroe Islands, Tórshavn, Faroe Islands, Denmark | 12:45 - 12:45 |
| P3.506 | Exploring endophytic fungal diversity in wheat by metabarcoding and <i>in vitro</i> selection
Abstract Presenter: Marzia Beccaccioli, Sapienza University of Rome, Rome, Italy | 12:45 - 12:45 |
| P3.507 | Isolation and functional analysis of an endophytic fludioxonil-resistant <i>Fusarium solani</i> mutant for integrated tomato crop protection
Abstract Presenter: Nektarios Kavroulakis, EIGO-DIMITRA, Chania, Greece | 12:45 - 12:45 |
| P3.508 | Investigating the symbiosis between <i>Candidatus Moeniiplasma glomeromycetorum</i> endobacteria in arbuscular mycorrhizal fungi
Abstract Presenter: Yue Guan, University College Dublin, Dublin 14, Ireland | 12:45 - 12:45 |
| P3.509 | Sterol metabolism of ophiostomatalean fungi associated with the spruce bark beetle <i>Ips typographus</i> (Coleoptera, scolytinae)
Abstract Presenter: Carla Vandekerckhove, University of Lorraine, Vandoeuvre les Nancy, France | 12:45 - 12:45 |
| P3.510 | What makes a host a host: how basal fungi perceive and respond to endosymbiotic bacteria
Abstract Presenter: Emma Scales, Cornell University, Ithaca, United States | 12:45 - 12:45 |
| P3.511 | Dark matter of an orchid: metagenome associated with the rhizosphere of <i>Dactylorhiza traunsteineri</i>
Abstract Presenter: Julien Charest, Institute of Chemical, Environmental and Bioscience Engineering, TU Wien Austria | 12:45 - 12:45 |
| P3.512 | Carbon-for-nutrient exchange dynamics and mutualist reciprocity in <i>Arabidopsis thaliana</i> and <i>Colletotrichum tofieldiae</i> interactions
Abstract Presenter: Johannes Gaertner, University of Cologne, Köln, Germany | 12:45 - 12:45 |
| P3.513 | The mycobiont of the lichen <i>Xanthoria parietina</i> produces the siderophore ferrichrome in axenic culture and as mycobiont
Abstract Presenter: Isidor Happacher, Institute of Molecular Biology, Biocenter, Medical University Innsbruck, Innsbruck, Austria | 12:45 - 12:45 |
| P3.514 | Establishing <i>Paxillus involutus</i> as a genetically tractable model for studying ectomycorrhizal symbiosis
Abstract Presenter: Ines Teichert, University of Goettingen, Goettingen, Germany | 12:45 - 12:45 |
| P3.515 | Investigating wild Scottish grasses for endophyte use towards adapted resilience in barley and other grass crops
Abstract Presenter: Lorena I. Rangel, The James Hutton Institute, Dundee, United Kingdom | 12:45 - 12:45 |
| P3.516 | Genomic characterization of fungal endophytes with biopesticide potential
Abstract Presenter: Jorge Rojas, Instituto de Ciencias Agrarias (ICA, CSIC), Madrid, Spain | 12:45 - 12:45 |

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12:45 - 14:30

Fungal signalling

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| P3.401 | Three [2Fe-2S] cluster-binding regions regulate the functional transitions of the <i>Aspergillus fumigatus</i> iron regulator HapX for adaptation to iron starvation, sufficiency and excess | 12:45 - 12:45 |
| | Abstract Presenter: Hubertus Haas, Institute of Molecular Biology, Medical University Innsbruck, Innsbruck, Austria | |
| P3.402 | A <i>Fusarium graminearum</i> protein interaction network of trichothecene biosynthesis pathways | 12:45 - 12:45 |
| | Abstract Presenter: Gopal subramaniam, Agriculture Canada, Ottawa, Canada | |
| P3.403 | Redox regulation of proteins through reversible cysteine oxidation in <i>Neurospora crassa</i> during cellulose degradation and anaerobiosis | 12:45 - 12:45 |
| | Abstract Presenter: Lionel Tarrago, Aix-Marseille University/Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement, Marseille, France | |
| P3.404 | The role of HFB1 in the mate recognition and sexual reproduction initiation in <i>Trichoderma reesei</i> | 12:45 - 12:45 |
| | Abstract Presenter: Feng Cai, Sun Yat-sen University, Shenzhen, China | |
| P3.405 | EOP-1: a key protein for cell-cell interaction with an AIM24-like domain and an extended IDR that might drive droplet formation | 12:45 - 12:45 |
| | Abstract Presenter: Lina Strzelczyk, Technische Universität Braunschweig, Braunschweig, Germany | |
| P3.406 | Acidification by germlings initiates inter- and intraspecies conidial anastomosis tube formation | 12:45 - 12:45 |
| | Abstract Presenter: Daniela Nordzieke, Georg-August University Göttingen, Göttingen, Germany | |
| P3.407 | Role of the red-light and blue-light photoreceptors in the photoadaptation of transcription in <i>Aspergillus nidulans</i> | 12:45 - 12:45 |
| | Abstract Presenter: Antonio Franco-Cano, University of Seville, Seville, Spain | |
| P3.408 | N-acetylglucosamine sensing in <i>Trichoderma reesei</i> | 12:45 - 12:45 |
| | Abstract Presenter: Lisa Kappel, KTH Royal Institute of Technology, Stockholm, Sweden | |
| P3.409 | Characterization of Regulation of Ace2 and Morphogenesis (RAM) network components in <i>Aspergillus fumigatus</i> carbon source-mediated morphogenesis | 12:45 - 12:45 |
| | Abstract Presenter: Devi Naga Jyothi Bale, University of Tennessee Health Science Center, Memphis, United States | |
| P3.410 | Structural and functional characterization of endogenous TORC1 and TORC2 fungi-specific subunits | 12:45 - 12:45 |
| | Abstract Presenter: Lenny Bonadei, Université de Genève, Geneva, Switzerland | |
| P3.411 | Non-Dikarya fungi share the TORC1 pathway with animals, not with yeasts | 12:45 - 12:45 |
| | Abstract Presenter: Drishtee Barua, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland | |
| P3.412 | Genetic dissection of the chemical defense of ink cap mushroom <i>Coprinopsis cinerea</i> against fungivorous nematodes | 12:45 - 12:45 |
| | Abstract Presenter: Shurui Mai, ETH Zürich, Zürich, Switzerland | |

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P3.413	Damage-inducing compounds elicit an antibacterial defense response in the model mushroom <i>Coprinopsis cinerea</i> Abstract Presenter: Emma Alessandri, ETH Zürich, Zürich, Switzerland	12:45 - 12:45
P3.414	Photoadaptation in the absence of VVD: regulation of transcription by light in <i>Phycomyces blakesleeana</i> Abstract Presenter: Maria Corrochano Luque, University of Seville, Seville, Spain	12:45 - 12:45
P3.415	A cryptochrome-like photolyase regulates the oxidative stress response in <i>Aspergillus nidulans</i> Abstract Presenter: Alexander Landmark, Karlsruhe Institute of Technology, Karlsruhe, Germany	12:45 - 12:45
P3.416	Investigation of signalling pathways controlling gasdermin cell death in <i>Podospora anserina</i> Abstract Presenter: Kamalraj Subban, ImmunoConcEpT, CNRS, UMR 5164, University of Bordeaux, Bordeaux, France	12:45 - 12:45
P3.417	Are1 implication in iron metabolism Abstract Presenter: Clara Baldin, University of Innsbruck, Innsbruck, Austria	12:45 - 12:45
P3.418	Biotin capture of the proxime of the SmSTRIPAK complex in <i>Sordaria macrospora</i> identifies a greenbeard gene as a putative interactor Abstract Presenter: Lucas Sebastian Hollstein, Georg-August-University of Göttingen, Göttingen, Germany	12:45 - 12:45
P3.419	Molecular characterization of Dic3 in <i>Bipolaris maydis</i> and its role in resistance to dicarboximide and phenylpyrrole fungicides and osmotic stress Abstract Presenter: Diana Cecilia Ruiz Nava, Kyoto University, Kyoto, Japan	12:45 - 12:45

Oral

14:30 - 16:30

BO 1

Fungal development and morphogenesis

Chairs: Stefanie Pöggeler, Georg-August University Göttingen, Göttingen, Germany

Chairs: Kap-Hoon Han, Woosuk University, Jeonbuk, Korea, Republic of

CS 3.1.1	The cytosolic interactors of NsdD GATA factor control sexual development in <i>Aspergillus nidulans</i> Abstract Presenter: Kap-Hoon Han, Woosuk University, Jeonbuk, Korea, Republic of	14:30 - 14:45
CS 3.1.2	Polycomb repressive complex II balances vegetative growth and perithecial development in <i>Neurospora crassa</i> Abstract Presenter: Abigail Deaven, University of Georgia, Athens, United States	14:45 - 15:00
CS 3.1.3	Exploring selective autophagy in the filamentous fungus <i>Sordaria macrospora</i>: identifying interactors of the pexophagy receptor SmNBR1 via BioID Abstract Presenter: Svenja Groth, Georg-August-University of Göttingen, Göttingen, Germany	15:00 - 15:15
CS 3.1.4	The <i>Cryptococcus neoformans</i> STRIPAK complex controls genome stability, sexual development and virulence Abstract Presenter: Patricia P. Peterson, Duke University Medical Center, Durham, United States	15:15 - 15:30
CS 3.1.5	Dynamic molecular dialogues in <i>A. nidulans</i> development: Interplay between pheromone producing enzymes and transcriptional	15:30 - 15:45

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regulators

Abstract Presenter: Emmanouil Stavros Xylakis, Georg August University, Goettingen, Germany

- CS 3.1.6 **Antagonistic Pathways of Lipid Transfer Proteins (LTPs) for *de novo* Membrane Assembly in Fission Yeast** 15:45 - 16:00

Abstract Presenter: Miguel Basante-Bedoya, University of Geneva, Geneva, Switzerland

- CS 3.1.7 **Fungal feature tracker 2.0: unleashing the power of image analysis in fungal research** 16:00 - 16:15

Abstract Presenter: Guillermo Vidal-Diez de Ulzurrun, Max Planck Institute for Biology, Tuebingen, Germany

- CS 3.1.8 **Five successive transcriptomic waves control sexual reproduction in *Podospora anserina*** 16:15 - 16:30

Abstract Presenter: Fabienne Malagnac, University Paris Saclay, Gif Sur Yvette, France

Oral

14:30 - 16:30

BO 2

Cellular biology of fungi

Chairs: Jun-Ichi Maruyama, Tokyo, Japan

Chairs: Robert Arkowitz, France

- CS 3.2.1 **Flotillin-containing lipid raft microdomains are linked to calcium in *Aspergillus nidulans*** 14:30 - 14:45

Abstract Presenter: Moemi Kawashima, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany

- CS 3.2.2 **Endocytosis in *Aspergillus nidulans*** 14:45 - 15:00

Abstract Presenter: Miguel Angel Penalva, CSIC Centro de Investigaciones Biologicas Margarita Salas, Madrid, Spain

- CS 3.2.3 **Cross-species comparison of AlphaFold-derived G protein-coupled receptor structures reveals novel melatonin-related receptor in *Neurospora crassa*** 15:00 - 15:15

Abstract Presenter: Cathryn Maienza, Rutgers University - Camden, Camden, United States

- CS 3.2.4 **Investigating the role of the Nuclear Dbf2-related (NDR) kinase Cot1 in appressorium morphogenesis and polarized growth in the blast fungus *Magnaporthe oryzae*** 15:15 - 15:30

Abstract Presenter: Rachel Taylor, University of Arkansas System Division of Agriculture, Fayetteville, United States

- CS 3.2.5 **Role of phenotypic switching in the regulation of *Fusarium oxysporum* development and pathogenicity** 15:30 - 15:45

Abstract Presenter: Pilar Gutiérrez Escribano, Universidad de Córdoba, Córdoba, Spain

- CS 3.2.6 ***C. albicans* tolerance to the antifungal drug fluconazole is regulated by cytoplasmic crowding** 15:45 - 16:00

Abstract Presenter: Emily Plumb, University Côte d'Azur - CNRS - INSERM, Nice, France

- CS 3.2.7 **Mucoromycete germlings undergo regulated cell death mediated by adenylyl cyclases in the innate immune response to bacterial perception** 16:00 - 16:15

Abstract Presenter: Delia Tota, Cornell University, Ithaca, United States

- CS 3.2.8 **Atypical cell death phenomenon induced by cell fusion revealed by pairing diverse strains in the industrial fungus *Aspergillus oryzae*** 16:15 - 16:30

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Abstract Presenter: Yahong Zou, The University of Tokyo, Tokyo, Japan

Oral

14:30 - 16:30

BO 3

Fungal secondary metabolism

Chairs: Taina Lundell, University of Helsinki, Helsinki, Finland

Chairs: Rebecca Owens, Maynooth University, Maynooth, Ireland

CS 3.3.1 **Discovery of penicillic acid as a chemical probe against tau aggregation in Alzheimer's Disease** 14:30 - 14:45

Abstract Presenter: Jennifer Shyong, University of Southern California, Los Angeles, United States

CS 3.3.2 **Early steps of the biosynthesis of the anticancer antibiotic pleurotin** 14:45 - 15:00

Abstract Presenter: Fabrizio Alberti, University of Warwick, Coventry, United Kingdom

CS 3.3.3 **Transformation of *Alternaria dauci* demonstrates the involvement of two polyketide synthase genes in aldaulactone production and fungal pathogenicity** 15:00 - 15:15

Abstract Presenter: Jerome Monroe Bernardino, Université d'Angers, Institut Agro, INRAE, Angers, France

CS 3.3.4 **Ochratoxin A: current knowledge and future directions** 15:15 - 15:30

Abstract Presenter: Massimo Ferrara, Institute of Sciences of Food Production, CNR-ISPRA, Bari, Italy

CS 3.3.5 **Synthetic strategies to optimize octatrienoic acid production in *Aspergillus nidulans*** 15:30 - 15:45

Abstract Presenter: Maria Tangelos, University of Southern California, Los Angeles, United States

CS 3.3.6 **Cercosporin production improves *Cercospora beticola* virulence on sugarbeet plants grown in field soil** 15:45 - 16:00

Abstract Presenter: Mari Natwick, North Dakota State University, Fargo, United States

CS 3.3.7 **Arginoketides mediating cross-kingdom microbial interactions are modified by a fungal oxidase** 16:00 - 16:15

Abstract Presenter: Maira Rosin, Leibniz Institut for Natural Product Research and Infection Biology - HKI, Jena, Germany

CS 3.3.8 **Unlocking lichen biochemistry: genomic insights into BGC discovery and the road ahead** 16:15 - 16:30

Abstract Presenter: Garima Singh, University of Padova, Padova, Italy

Oral

14:30 - 16:30

BO 4

Fungal signalling

Chairs: Janet Quinn, Newcastle University, Newcastle, United Kingdom

Chairs: Özgür Bayram, Maynooth University, Maynooth, Ireland

CS 3.4.1 **RNAseq and targeted metabolomics implicate the guanine nucleotide exchange factor RIC8 in regulation of energy homeostasis, amino acid compartmentation and asexual development in *Neurospora crassa*** 14:30 - 14:45

Abstract Presenter: Katherine Borkovich, University of California, Riverside, Riverside, United States

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CS 3.4.2	Identification of novel <i>Aspergillus fumigatus</i> SIN kinase interactors through near-neighbor analysis	14:45 - 15:00
	Abstract Presenter: Harrison Thorn, University of Tennessee Health Science Center, Memphis, United States	
CS 3.4.3	Identification of an a-factor-like peptide mating pheromone secreted by the heterothallic ascomycete <i>Aspergillus fumigatus</i>	15:00 - 15:15
	Abstract Presenter: Sven Krappmann, University Hospital Erlangen and Friedrich-Alexander University (FAU) Nürnberg, Institute of Clinical Microbiology, Immunology and Hygiene, Erlangen, Germany	
CS 3.4.4	A conserved cell-cell communication mechanism mediates interspecies interactions between <i>Neurospora crassa</i> and <i>Trichoderma atroviride</i>	15:15 - 15:30
	Abstract Presenter: Natascha Rotermund, Technische Universität Braunschweig, Braunschweig, Germany	
CS 3.4.5	Plant stress perception alters inter-kingdom communication in the rhizosphere	15:30 - 15:45
	Abstract Presenter: Stefania Vitale, University of Naples "Federico II", Portici, Italy	
CS 3.4.6	Guardian of the cell: How cryptochrome balances the stress response in <i>Aspergillus nidulans</i>	15:45 - 16:00
	Abstract Presenter: Alexander Landmark, Karlsruhe Institute of Technology, Karlsruhe, Germany	
CS 3.4.7	Cracking the code of infection: mapping the phosphorylation network behind infection-related development in rice blast fungus <i>Magnaporthe oryzae</i>	16:00 - 16:15
	Abstract Presenter: Frank Menke, Sainsbury Laboratory, Norwich, United Kingdom	
CS 3.4.8	Light dependent regulation of plant cell wall degradation and secondary metabolism via the HOG pathway in <i>Trichoderma reesei</i>	16:15 - 16:30
	Abstract Presenter: Miriam Schalamun, AIT Austrian Institute of Technology, Tulln, Austria	

Oral

14:30 - 16:30

BO 5

Symbionts and endophytes

Chairs: Olga Lastovetsky, University College Dublin, Dublin, Ireland

Chairs: Kai Heimel, University of Göttingen, Göttingen, Germany

CS 3.5.1	Mycombiome-based improvement of growth in urban farm plants	14:30 - 14:45
	Abstract Presenter: Cheng-Yen Chen, Temasek Life Sciences Laboratory, Singapore, Singapore	
CS 3.5.2	Evaluating the role of bacterial endosymbionts in evolution and diversity of plant associated Mucoromycota fungal communities	14:45 - 15:00
	Abstract Presenter: Daniyal Gohar, Oregon State University, Corvallis, United States	
CS 3.5.3	Peculiarities in the genome maintenance of Arbuscular Mycorrhizal Fungi	15:00 - 15:15
	Abstract Presenter: Drishtee Barua, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland	
CS 3.5.4	Characterizing the secretome of a lichenized fungus <i>Xanthoria parietina</i> and its role in the lichen symbiosis	15:15 - 15:30
	Abstract Presenter: Gulnara Tagirdzhanova, The Sainsbury Laboratory, Norwich, United Kingdom	
CS 3.5.5	Understanding the role of antimicrobial effector proteins secreted	15:30 - 15:45

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by the lichen-forming fungus *Peltigera rufescens*

Abstract Presenter: Ciaran Kelly, University of Cologne, Cologne, Germany

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|----------|---|---------------|
| CS 3.5.6 | The root endophyte <i>Colletotrichum tofieldiae</i> promotes plant growth in a manner dependent on nitrogen status and the composition of rhizosphere bacteria | 15:45 - 16:00 |
| | Abstract Presenter: Kei Hiruma, The University of Tokyo, Tokyo, Japan | |
| CS 3.5.7 | Genomic characterization of fungal endophytes with biopesticide potential | 16:00 - 16:15 |
| | Abstract Presenter: Jorge Rojas, Instituto de Ciencias Agrarias (ICA, CSIC), Madrid, Spain | |
| CS 3.5.8 | Structure of <i>Mucoromycota</i> fungal communities and their associated endosymbiotic bacteria across two different biomes in the U.S. and Israel | 16:15 - 16:30 |
| | Abstract Presenter: Nicole Reynolds, California Polytechnic University, Pomona, Pomona, United States | |

Oral

14:30 - 16:30

BO 6

Stress responses

Chairs: Iran Malavazi, Universidade Federal de São Carlos (UFSCar), São Carlos, Brazil

Chairs: Joske Ruytinx, Vrije University Brussel, Brussel, Belgium

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|----------|---|---------------|
| CS 3.6.1 | Deciphering the role of the key HR1 regulatory domain of protein kinase C (PkcA) in the fungal pathogen <i>Aspergillus fumigatus</i> | 14:30 - 14:45 |
| | Abstract Presenter: Iran Malavazi, Universidade Federal de São Carlos (UFSCar), São Carlos, Brazil | |
| CS 3.6.2 | QTL mapping of stress tolerance in the wheat pathogen <i>Zymoseptoria tritici</i> | 14:45 - 15:00 |
| | Abstract Presenter: Jessica Stapley, ETH Zürich, Zürich, Switzerland | |
| CS 3.6.3 | Post-translational modifications in response to hypoxia in the filamentous fungus <i>Aspergillus fumigatus</i> | 15:00 - 15:15 |
| | Abstract Presenter: Olaf Kniemeyer, Leibniz Institute for Natural Product Research and Infection Biology, Jena, Germany | |
| CS 3.6.4 | Zn stress in ectomycorrhizal symbiosis; a <i>Laccaria bicolor</i> point of view | 15:15 - 15:30 |
| | Abstract Presenter: Katoo Verhaevert, Vrije Universiteit Brussel, Brussel, Belgium | |
| CS 3.6.5 | A new principle for oxidative stress sensing in fungi based on heme oxygenases | 15:30 - 15:45 |
| | Abstract Presenter: Lars Oliver Schuhmacher, Karlsruhe Institute of Technology, Karlsruhe, Germany | |
| CS 3.6.6 | Initiation of endosymbiosis in <i>Rhizopus microsporus</i> indicates a shift from antagonism to commensalism | 15:45 - 16:00 |
| | Abstract Presenter: Thomas Gassler, ETH Zurich / Institute of Microbiology, Zurich, Switzerland | |
| | Abstract Presenter: Alannah Holderbusch, ETH Zurich / Institute of Microbiology, Zurich, Switzerland | |
| CS 3.6.7 | The overlooked functions of the elongation factor gamma in the control of protein translation under stress | 16:00 - 16:15 |
| | Abstract Presenter: Melanie Morel-Rouhier, University of Lorraine, Vandoeuvre les Nancy, France | |
| CS 3.6.8 | UV induces translation in <i>Fusarium</i> species in a pKA and | 16:15 - 16:30 |

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developmentally regulated manner

Abstract Presenter: Shay Covo, Hebrew University, Rehovot, Israel

Break

16:30 - 16:45

BO 1

Comfort Break

ECFG Lecture

16:45 - 17:30

BO 1

ECFG Lecture

Tête-à-tête with fungi

16:45 - 17:30

ECFG 17 Closing Speaker: Gerhard Braus, Georg-August-Universität Göttingen, Göttingen, Germany

Closing Ceremony

17:30 - 19:00

BO 1

Closing Ceremony

Chairs: Özgür Bayram, Maynooth University, Maynooth, Ireland

Chairs: Kevin Kavanagh, Maynooth University, Maynooth, Ireland

TBA

17:30 - 19:00