

Programme

Saturday May13, 2017

15.00	Registration
19.00	Dinner
20.20	Carol Munro Introductory Remarks
20.25	Carol Munro Presentation of FEMS and FEBS
20.30	Donna MacCallum Presentation of ISHAM
20.40	ISHAM-sponsored Keynote lecture: Alistair Brown (K1) The complexity of host inputs affects fungal outputs and hence virulence
21.30	Welcome reception

Sunday May14, 2017

07.30	Breakfast
08.15	Registration
09.00	Session 1: Pathogenic fungi - genomics, evolution and epidemiology A session sponsored by the French Society of Medical Mycology Chair: Richard Bennett
09.00	Richard Bennett, Brown University, USA Introduction
09.20	S1/1 Geraldine Butler, University College Dublin, Ireland Genome diversity of <i>Candida</i> species
09.50	S1/2 Antonis Rokas, Vanderbilt University, USA Genomics and the making of fungal metabolic diversity
10.20	Coffee Break
10.40	S1/3 Li-Jun Ma, University of Massachusetts Amherst, USA Genome evolution and organism adaptation of a cross-kingdom fungal pathogen <i>Fusarium oxysporum</i>
11.10	S1/4 Guilhem Janbon, Institut Pasteur, France The dynamics of the <i>Cryptococcus neoformans</i> transcriptome
11.40	S1/5 Norman Pavelka, A*Star, Singapore
12.15	Lunch
15.45	Workshop 1: Genomics, evolution, epidemiology, antifungals Chairs: Guilhem Janbon, Cecile Fairhead
15.45	W1/1 Jane Usher, University of Exeter, UK (P1A) Targeting synthetically lethal partners of antimicrobial resistance alleles in <i>Candida glabrata</i> to minimize emergence of drug resistant infection
16.00	W1/2 Cecile Fairhead, Université Paris Sud, France (P22C) Mating-type switching in <i>Candida glabrata</i> and related species.
16.15	W1/3 Joachim Morschhäuser, University of Würzburg, Germany (P26C) Evolution of fluconazole-resistant <i>Candida albicans</i> strains exhibiting multiple resistance mechanisms by drug-induced sexual recombination
16.30	W1/4 Mélanie Legrand, Institut Pasteur, France (P39C) <i>Candida albicans</i> : a model organism to study mechanisms involved in eukaryotic genome integrity
16.45	Coffee Break
17.10	Elevator session 1 Chairs: Guilhem Janbon, Cecile Fairhead
17.10	E1/1 Selene Mogavero (P5A) Candidalysin is the <i>Candida albicans</i> haemolytic factor
17.15	E1/2 Paul Donovan (P11A) Riboswitch Discovery in <i>Saccharomycotina</i> Species
17.20	E1/3 Suelen dos Santos (P17A) The establishment of a specific response during paracoccidioidomycosis is dependent of CD11c+ cells
17.25	E1/4 Patricia Otieno-Odhiambo (P23A) <i>Pneumocystis</i> : what are the host innate immune mechanisms controlling infection?
17.30	E1/5 Maria Spyrou (P24A) Orchestration of chitin synthesis in <i>Candida albicans</i>
17.35	E1/6 Lisa Lombardi (P27A) Development of a plasmid based system for CRISPR-Cas9 mediated mutation in <i>Candida parapsilosis</i>
17.40	E1/7 Bethany McCann (P35A) From Bug to Drug: In-house production of bespoke antifungal peptide aptamers
17.45	E1/8 Jiyoti Verma (P36A) Insights into host-pathogen interactions by dual RNAseq.
17.50	E1/9 Catarina Costa (P41A) Are <i>Candida glabrata</i> drug efflux pumps from the MFS clinically relevant?

17.55	E1/10 Courtney Kousser (P42A) Bacterial secreted factors regulate mucormycete germination
18.00	Close
19.00	Dinner
20.30	Poster Session A

Monday May 15, 2017

07.30	Breakfast
08.15	Registration
09.00	Session 2: Molecular and cell biology of fungal pathogens A session sponsored by the British Mycological Society Chair: Ana Traven
09.00	Ana Traven, Monash University, Australia Introduction (sponsored by IUBMB)
09.20	S2/1 Judith Berman, Tel Aviv University, Israel Clearing the FoG: Subpopulation responses to antifungal drugs
09.50	S2/2 Mike Lorenz, University of Texas McGovern Medical School, USA Metabolic adaptations drive resistance to phagocytosis
10.20	Coffee Break
10.40	S2/3 Hubertus Haas, Innsbruck Medical University, Austria Iron – a key hub in virulence of <i>Aspergillus fumigatus</i>
11.10	S2/4 Anita Sil, University of California San Francisco, USA Regulation of cell shape and virulence by temperature in <i>Histoplasma capsulatum</i>
11.40	S2/5 Liz Ballou, University of Birmingham, UK Endogenous Reactive Oxygen Species in <i>Cryptococcus neoformans</i> morphogenesis and pathogenesis
12.15	Lunch
15:45	Workshop 2: Molecular and cell biology of fungal pathogens Chairs: Ana Traven, Alex Adrianopoulos
15:45	W2/1 Jorge Amich (P2C) Methionine synthases as drug targets for antifungal drug development
16.00	W2/2 Helene Martin-Yken (P3B) The <i>Dark Side of the Wall</i> : Atomic Force Microscopy Revelations on Drug Resistance and Adhesion
16.15	W2/3 Guanghai Huang (P9A) The Regulatory Subunit of Protein Kinase A (Bcy1) in <i>Candida albicans</i> Plays Critical Roles in Filamentation and White-Opaque Switching but is Not Essential for Cell Growth
16.30	W2/4 Miguel Teixeira (P9B) Unveiling transcriptional regulation in <i>Candida</i> species: using the PathoYeast database
16.45	Coffee Break
17.10	Elevator Session 2 Chairs: Ana Traven, Alex Adrianopoulos
17.10	E2/1 Zanetta Chang (P8B) Drug resistance via RNAi-dependent epimutations in <i>Mucor circinelloides</i>
17.15	E2/2 Silvia Novohradská (P5B) Pathogenic yeasts express virulence determinants in a new natural model system to defend against amoeba predation
17.20	E2/3 Enrico Garbe (P15B) Characterization of the <i>Candida albicans</i> <i>ECE1</i> promoter
17.25	E2/4 Ona Rogiers (P13B) The <i>in vivo</i> efficiency of anidulafungin and tigecycline against polymicrobial catheter-associated peritonitis
17.30	E2/5 Patricia M. Silva (P16B) Temporal and spatial control of fungal filamentous growth
17.35	E2/6 Larissa VG Longo (P17B) The role of APSES transcription factors in <i>Histoplasma capsulatum</i> virulence and adaptation to stress conditions
17.40	E2/7 Delma Childers (P23B) Fungal Transformers: Tracking a Moving Target
17.45	E2/8 Wouter van Genechten (P38B) Fast <i>in vivo</i> super-resolution microscopy and background reduction in <i>Candida albicans</i> .
17.50	E2/9 Fitz Gerald Silao (P42B)

	Mitochondrial proline metabolism is key to arginine-induced morphogenesis in <i>Candida albicans</i>
17.55	E2/10 Yacine Dahman (P29B) CRISPR-Cas9-engineered <i>C. glabrata</i> strains for the study of virulence factors in animal models
18.00	Close
19.00	Dinner
20.30	Poster Session B

Tuesday May 16, 2017

07.30	Breakfast
08.30	Session 3: Discovering novel antifungal strategies A session sponsored by BioRad Chair: Damian Krysan
08.30	S3/1 Damian Krysan, University of Rochester Medical Center, USA Adventures in antifungal drug development
09.00	S3/2 Françoise Dromer, Institut Pasteur, France New treatment strategies for cryptococcosis?
09.20	S3/3 Karin Thevissen, KU Leuven, Belgium Plant defensins and linear plant defensin-derived peptides increase caspofungin's antibiofilm against <i>Candida</i> biofilms <i>in vitro</i> and <i>in vivo</i>
09.40	S3/4 Carlo Petosa, Université de Grenoble Alpes, France Selective BET bromodomain inhibition as a potential antifungal therapeutic strategy
10.00	Coffee Break

Tuesday May 16, 2017

10.20	Session 4: Interactive workshop on the mycobiome in health and disease A session sponsored by the Microbiology Society Chair: Tom Dawson
10.20	S4/1 Andy Koh, University of Texas, USA Commensal anaerobic gut microbiota promote <i>Candida albicans</i> colonization resistance
10.40	S4/2 Tom Dawson, A*Star, Singapore Forbidden Kingdom: role of the mycobiome and fungus-host interactions in human skin disease
11.00	S4/3 Mathias Lavie-Richard, INRA AgroParisTech, France Gut fungal microbiota: The yin and yang of Inflammatory Bowel Disease
11.20	S4/4 Luigina Romani, University of Perugia, Italy The regulation of host resistance to fungi by the microbiota: towards a systems-level understanding of fungal diseases
11.40	Open discussion
12.15	Lunch
13.30	Free afternoon and evening

Wednesday May 17, 2017

07.30	Breakfast
09.00	Session 5: Host-pathogen interactions, the host perspective A session sponsored by European Confederation of Medical Mycology Chair: Donna MacCallum
09.00	Donna MacCallum University of Aberdeen, UK Introduction
09.20	S5/1 Sarah Gaffen, University of Pittsburgh, USA IL-17 signal transduction and immunity to <i>Candida albicans</i>
09.50	S5/2 Jessica Quintin, Institut Pasteur, France Innate immune memory and fungal infections
10.20	Coffee Break
10.40	S5/3 Georgios Chamilos, University of Crete, Greece Novel molecular mechanisms regulating phagosome biogenesis during interplay of airborne filamentous fungi with the mammalian phagocytes
11.10	S5/4 Agostinho Carvalho, University of Minho The Genetic architecture of innate antifungal immunity
11.40	S5/5 Chris Mody, University of Calgary, Canada Fungal effector mechanisms: Direct killing by cytolytic lymphocytes
12.15	Lunch
15.45	Workshop 3: Host-pathogen interactions, the host perspective Chairs: Ilse Jacobsen, Oliver Kurzai
15.45	W3/1 Salome Leibundgut (P1C) The intraspecies diversity of <i>C. albicans</i> triggers qualitatively and temporally distinct host responses that determine the balance between commensalism and pathogenicity.
16.00	W3/2 Darius Armstrong-James (P25B) Calcineurin orchestrates lateral transfer of <i>Aspergillus fumigatus</i> during macrophage cell death
16.15	W3/3 Steffen Rupp (P35B) Dermal fibroblasts play a central role in skin model protection against <i>C. albicans</i> invasion
16.30	W3/4 Constantin Urban (P44C) Host factor adenosine modulates inflammatory responses in systemic candidiasis
16.45	Coffee Break
17.10	Elevator Session 3 Chairs: Ilse Jacobsen, Oliver Kurzai
17.10	E3/1 Leenah Alaalm (P1C) Understanding how the Hsp90 Kinase interactome affects <i>Candida albicans</i> virulence
17.15	E3/2 Barbara Koch (P8C) Uncovering new links between mitochondria and hyphal growth of <i>Candida albicans</i>
17.20	E3/3 Robert Tams (P10C) The Kennedy Pathway: A rheostat for virulence in <i>Candida albicans</i>
17.25	E3/4 Amanda Veri (P33C) Investigating the mechanisms by which the transcription factor Hsf1 regulates <i>Candida albicans</i> morphogenesis
17.30	E3/5 Angeliki Andrianaki (P30C) Iron restriction inside the phagosome of macrophages is an essential host defense mechanism against <i>Mucorales</i>
17.35	E3/6 Intan Dewi (P43C) Sialic acids on the surface of <i>Aspergillus fumigatus</i> conidia impacts pathogen recognition and anti-fungal response by PBMCs
17.40	E3/7 Eric Delarze (P36C) Identification of mediators of antifungal tolerance in <i>Candida albicans</i>
17.45	E3/8 Cláudio Duarte-Oliveira (P40C) The long pentraxin PTX3 regulates the pathogenic potential of <i>Trichosporon asahii</i> via differential induction of IL-10
17.50	E3/9 Philipp Kämmer (P26C) Fingerprinting of <i>Candida</i> spp. blood infections

17.55	E3/10 Grasielle Jannuzzi (P16C) The absence of TLR3 controls paracoccidioidomycosis with increase of cytotoxic CD8 ⁺ T cells
18.00	Close
19.00	Dinner
20.30	Poster Session C

Thursday May 18, 2017

07.30	Breakfast
09.00	Session 6: Host-pathogen interactions, the pathogen perspective A session sponsored by The Burroughs Wellcome Fund Chair: Rebecca Hall
09.00	Rebecca Hall, University of Birmingham, UK Introduction
09.20	S6/1 Alex Brand, University of Aberdeen, USA Contact-sensing and directional growth regulation in <i>Candida albicans</i> hyphae
09.50	S6/2 Bruce Klein, University of Wisconsin-Madison, USA A novel <i>Blastomyces</i> ligand for Dectin-2 with adjuvant activity for vaccination against fungi
10.20	Coffee Break
10.40	S6/3 Sven Krappmann, Universitätsklinikum Erlangen, Germany Putting fungal virulence in context
11.10	S6/4 Kirsten Nielsen, University of Minnesota, USA Cell Wars: The battle between <i>Cryptococcus</i> titan cells and the immune system
11.40	S6/5 Julian Naglik, Kings College London, UK Epithelial activation by Candidalysin
12.15	Lunch
15.45	Workshop 4: Host-pathogen interactions, the pathogen perspective Chairs: Bruce Klein, Julian Naglik
15.45	W4/1 Slavena Vylkova (P2A) Phagosomal neutralization by <i>Candida albicans</i> induces macrophage pyroptosis
16.00	W4/2 Robert Wheeler (P2B) <i>Candida albicans</i> takes a licking during infection
16.15	W4/3 Elaine Bignell (P19A) Mechanistic basis of epithelial damage in response to <i>A. fumigatus</i> infection
16.30	W4/4 Mary Ann Jabra-Rizk (P19B) Therapeutic Implications of <i>Candida albicans</i> and <i>Staphylococcus aureus</i> Mixed Biofilms
16.45	W4/5 Neeraj Chauhan (P41B) Oxidative stress resistance and modulation of macrophage pro-inflammatory response by <i>Candida albicans</i> MAM33
17.00	Coffee Break
17.20	Concluding Remarks and Award Ceremony Carol Munro
18.00	Close
19.00	Dinner and Farewell party

Friday May 19 2017

From 07.30	Breakfast and departure
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