

# 55th Annual Meeting

## British Society for Medical Mycology

Royal Victoria Hotel, Sheffield 17th-19th March 2019

### Sunday 17<sup>th</sup> March 2019

From 14.30 Registration (Foyer Royal Victoria Hotel)

14.00 – 16.00 BSMM Executive Committee Meeting (Midland Room, 1st Floor)

Session One

Chair: Simon Johnston

16:45 Official Welcome

17.00 Poster Flash Talks 1

**Feeding on the host: how do human fungal pathogens acquire essential trace metals during infection?**

Duncan Wilson

**Specific human antimicrobial peptides show antifungal activity against clinical *Aspergillus fumigatus* isolates**

Eloise Ballard

***Rhizopus microsporus* and *Pseudomonas aeruginosa* polymicrobial interactions**

Sarah Sherrington

**A Functional Annotation of *Aspergillus fumigatus* transcription factors**

Norman van Rhijn

**Does *Cryptococcus neoformans* Titan cell formation influence drug resistance?**

Hanna Zafar

- 17.30      **BSMM Foundation Lecture**  
**Surface molecules of *Aspergillus fumigatus***  
**decisive for immune evasion**  
**Axel Brakhage**  
Professor of Microbiology and Molecular Biology  
Institute of Microbiology, Friedrich Schiller University Jena
- 18.30      Poster Session 1
- 19.30      Dinner
- 20.30      Quiz and Late Bar

## **Monday 18<sup>th</sup> March 2019**

Session Two  
Chair: Adilia Warris

- 09.00      Offered Talk 1  
**Healthcare associated mucormycosis: Trends from a tertiary care centre in north India**  
Jagdish Chander
- 09.15      Offered Talk 2:  
**The AP-2 endocytic adaptor complex in *Candida albicans* morphology and virulence**  
Harriet Knafler
- 09.30      Offered Talk 3:  
**Reverse engineering of *Aspergillus* pH signalling for antifungal drug discovery**  
Bethany McCann
- 09.45      Offered Talk 4:  
**Visualising the innate immune response to cryptococcosis**  
Jacob Rudman
- 10.00      Keynote 1  
**Host recognition and clearance of *Pneumocystis*: Investigating immune mediators and mechanisms**  
**Claire Hoving**  
Institute of Infectious Disease and Molecular Medicine  
University of Cape Town
- 10.30      Tea/Coffee

Session Three

Chair: Rebecca Hall

11.00            Gilead Lecture  
**How the transformation in haematological malignancy care could affect the management of invasive fungal diseases**  
**Russell Lewis**  
Department of Medical and Surgical Sciences  
University of Bologna

11.30            Offered Talk 5:  
**Chemical-genetic Screening of a Gene Deletion Library Provides the First Insights into Hsp90 Interactions in *Candida glabrata***  
Julia Crunden

11.45            Offered Talk 6:  
**Deciphering methionine synthase essentiality in *Aspergillus fumigatus***  
Jennifer Scott

12.00            Gilead Fellows Talk 1  
**GB stewardship: a George's-Brompton partnership to enhance antifungal stewardship across two London NHS Trusts**  
**Tihana Bicanic**  
St George's, University of London  
**Darius Armstrong James**  
Royal Brompton and Harefield NHS Trust  
Imperial College London

12.30            Lunch

Session Four

Chair: Tihana Bicanic

13.30            Keynote 2  
**Bacteriome and Mycobiome Interactions Link to Dysbiosis and How to Correct it**  
**Mahmoud Ghannoum**  
Centre for Medical Mycology  
Case Western Reserve University and University Hospitals Cleveland Medical Center

14.00            Offered Talk 7:  
**Functional annotation of transcription factors driving epithelial cell damage during *Aspergillus fumigatus* infection**  
Sayema Khan

14.15 Offered Talk 8:  
**The candidalysins are a family of cytolytic fungal toxins**  
Jonathan Richardson

14.30 Poster Flash Talks 2  
**Elucidating the role of cell wall composition and hyphal morphology for host-pathogen interaction of *Candida albicans***  
Stella Christou

**Automated 3/4D imaging and visualisation of *Aspergillus fumigatus* spore uptake by macrophages**  
Darren Thomson

**Outcomes from isavuconazole prescribing in adult haematology patients at University Hospitals of Leicester NHS Trust**  
Nelun Perera

**A pH-responsive molecular switch required for tissue invasion**  
Shadab Farhadi

**Why you don't get out what you put in: Explaining the variability in cryptococcosis**  
Kate Pline

15.00 Tea/Coffee

Session Five  
Chair: Duncan Wilson

15.30 Keynote 3  
**Fungal stress signalling pathways as mediators of virulence - And how we can exploit this.**  
**Jan Quinn**  
Institute for Cell and Molecular Biosciences  
Newcastle University

16.00 Gilead Fellows Talk 2  
**Cross-sectional study of respiratory *Aspergillus* spp. colonization or infection in patients with various stages of Chronic Obstructive Pulmonary Disease (COPD) using culture vs non-culture based technique.**  
**Sarmad Waqas**  
St. James's Hospital affiliated with Trinity College Dublin

16.15 **Annual General Meeting for Members of the Society**

17.30-  
18.30 Poster Session 2

18.45-19.00 Leave for Kelham Island Museum  
19.00 Drinks Reception and Engine Run  
19.30-00.30 Dinner followed Sing-along

## Tuesday 19<sup>th</sup> March 2019

Session Six  
Chair: Robin May

09.30 Gilead Fellows Talk 3  
**Global sequencing of azole resistance *Aspergillus fumigatus* isolates**  
**Darius Armstrong James**  
Royal Brompton and Harefield NHS Trust  
Imperial College London

09.45 Offered Talk 9:  
**Immune recognition of the cell wall of a pathogenic fungus**  
Neil Gow

10.00 Keynote 4  
**From microsporidia to moulds – a personal snapshot of fungal infections in captive wildlife**  
**Mark Stidworthy**  
International Zoo Veterinary Group

10.30 Offered Talk 10:  
**Lending innate immunity a helping hand**  
Clare Logan

10.45 Offered Talk 11:  
**Adaptation of *Candida albicans* to acidic pH requires dynamic cell wall remodelling**  
Rebecca Hall

11.00 Tea/Coffee

Session Seven  
Chair: David Moyes

11.30 Offered Talk 12:  
**Identification of a potential link in the evolution of fungal immunology:**

**A commensal ~~Cryptococcus~~ *Candida* sp. in zebrafish**

Simon Johnston

11.45 Offered Talk 13:

**#ScienceSolstice: citizen science meets mycology**

Jenny Shelton

12.00 Offered Talk 14:

***Saprochaete capitata* fungaemia in a patient with aplastic anaemia**

Christopher Holmes

12.15 Offered Talk 15:

**Meet HRMAAn - An open source, machine learning based image analysis platform to quantify fungal host pathogen interactions the single cell level**

Robert Evans

12.30 Keynote 6

**Difficult cases, new fungi and surprising outcomes**

**Liz Johnson**

Mycology Reference Laboratory

Public Health England

13.00 Closing Address

13.05 Lunch

14.00 End of Conference