PROGRAMME

DAY 1: Thursday 1 February

Meet the Professor

08.00 – 08.50  Aspergillus immunology and inflammation
Teresa Zelante, PhD

08.00 – 08.50  Challenging cases in fungal asthma
Ritesh Agarwal, MD DM

09.00 – 09.15  Introduction and summary of global disease burden
David W. Denning, MBBS

Optimizing Anti-Aspergillus Therapy
Moderators: William J. Steinbach, MD & Martin Höngl, MD

09.20 – 09.45  Can we reduce fungal empiricism?
Dimitrios P. Kontoyiannis, MD

09.45 – 10.00  Abstract #9: The investigational echinocandin CD101 demonstrates potent in vitro activity against Aspergillus fumigatus, including azole-resistant isolates
Nathan P. Wiederhold, PharmD

10.00 – 10.15  Abstract #27: Early detection by pyrosequence profiling reveals triazole resistance in chronic pulmonary aspergillosis and allergic bronchopulmonary aspergillosis patient in the UK
Malcolm Richardson, PhD

10.15 – 10.30  Abstract #165: Expression profile of clinical Aspergillus fumigatus isolates upon exposure to itraconazole
Margriet Hokken, MSc

10.30 – 10.55  Managing breakthrough invasive aspergillosis
Livio Pagano, MD

10.55 – 11.25  Coffee Break

Drivers of the Immune Response
Moderators: Malcolm Richardson, PhD & Ashraf Ibrahim, PhD

11.25 – 11.50  Why are NK cells important for defense against Aspergillus?
Thomas Lehrnbecher, MD

11.50 – 12.05  Abstract #133: Airway tissue iron induces macrophage activation and Aspergillus fumigatus invasion in murine tracheal transplantation
Efthymia Iliana Matthaiou, PhD
12.05 – 12.20   **Abstract #93:** IL-10 overexpression *in vivo* promotes susceptibility to aspergillosis by suppressing innate and adaptive pulmonary antifungal immunity  
Claudio Duarte-Oliveira, MSc

12.20 – 12.35   **Abstract #85:** The role of neuraminidase and oseltamivir in host defense against aspergillosis  
Intan Dewi, MD

12.35 – 13.00   **Fungus-specific T helper cells as potential diagnostic sensors for fungal infection and sensitization**  
Alexander Scheffold, PhD

13.00 – 13.10   **NIH Aspergillus & Zygomycete update**  
Dona Love, PhD

13.10 – 14.30   **Lunch and Poster Session 1**

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**Therapy for the Next Decade**

Moderators: Olivier Lortholary, MD PhD & Manuel Abecassis, MD PhD

14.30 – 14.55   **Tissue penetration of antifungals**  
Yanan Zhao, PhD

14.55 – 15.10   **Abstract #149:** Combination therapy with SCY-078 and isavuconazole for treatment of experimental invasive pulmonary aspergillosis in persistently neutropenic rabbit  
Vidmantas Petraitis, MD

15.10 – 15.25   **Abstract #145:** Discovery of a novel polyaminocarboxylate compound able to successfully treat invasive pulmonary aspergillosis in a murine model by interfering with fungal zinc metabolism  
Oumaima Ibrahim-Granet, PhD

15.25 – 15.50   **Broad spectrum triazoles: which drug and when?**  
Martin Höngl, MD

15.50 – 16.20   **Coffee Break**

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**Aspergillus: Entering the Host and Beyond**

Moderators: David A. Stevens, MD & Fillipe Froes, MD

16.20 – 16.45   **Intermicrobial interactions with *Aspergillus* for survival in the airway**  
Gabriele Sass, PhD

16.45 – 17.00   **Abstract #127:** Fungal conidia are efficiently sensed by immune cells in a perfused in vitro 3D- respiratory model  
Parul Chandorkar, MSc

17.00 – 17.15   **Abstract #45:** Insight into the surface proteome of *A. fumigatus* through comparative analysis with multiple allergy-inducing fungi  
Matthew Blango, PhD

17.15 – 17.30   **Abstract #100:** Clinical diagnostic criteria for allergic bronchopulmonary mycosis  
Koichiro Asano, MD
17.30 – 17.55  **Recent advances in diagnosis and treatment of allergic aspergillosis**
Richard B. Moss, MD

18.00 – 19.00  **Welcome Reception**

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**An Evening with the FDA and PMDA**
Moderator: David W. Denning, MBBS

19.00 – 20.30  **Addressing clinical development questions for invasive, chronic and allergic aspergillosis**
Sumathi Nambiar, MD MPH
FDA

Junko Sato, PhD *(written answers only)*
PMDA

*Admission by pre-booked ticket only. Limited places available.*
DAY 2: Friday 2 February

Meet the Professor

08.00 – 08.50  Genetics of aspergillosis  
                Agostinho Carvalho, PhD & Paul Bowyer, PhD

08.00 – 08.50  How to make a fast diagnosis  
                Cornelia Lass-Flörl, MD PhD

Airways and Disease

Moderators: Richard B. Moss, MD & Livio Pagano, MD

09.00 – 09.25  How human factors regulate Aspergillus colonization in fungal allergy  
                Sara Gago, PhD

09.25 – 09.40  Abstract #89: Potency of the airway epithelium against Aspergillus fumigatus in health and disease: a single cell quantitative approach  
                Margherita Bertuzzi, PhD

09.40 – 09.55  Abstract #109: Detection of invasive pulmonary aspergillosis using lung perfusion SPECT with $^{99m}$Tc-MAA in mice  
                Masato Tashiro, MD PhD

09.55 – 10.10  Abstract #116: Evaluation of the role of TREM1 in invasive pulmonary aspergillosis  
                Laura Alcazar-Fuoli, PhD

10.10 – 10.35  Why and when aspergillosis appears in cystic fibrosis patients?  
                Adilia Warris, MD PhD

10.35 – 11.00  Coffee Break

Challenges for the Diagnostic Lab

Moderators: Cornelia Lass-Flörl, MD PhD & Raquel Sabino, PhD

11.00 – 11.25  Why are so many cases of invasive aspergillosis missed?  
                Olivier Lortholary, MD PhD

11.25 – 11.40  Abstract #108: From mass spectrometry imaging to non-invasive diagnosis of aspergillosis: iron, ferricrocin and triacetylfusarinine C in rat lung tissue, serum and urine  
                Vladimir Havlicek, PhD

11.40 – 12.05  Is phenotypic identification only to species complex acceptable?  
                Ana Aalstruey-Izquierdo, PhD
Pfizer Satellite Symposium
Moderator: Andreas H. Groll, MD

New patient management opportunities in the fight against invasive mould disease (IMD)

12.05 – 12.10 Welcome and overview of new treatment opportunities in high-risk patients
Andreas H. Groll, MD

12.10 – 12.30 Current state of clinical practice and evolving challenges in the management of IMD
Isabel Ruiz-Camps, MD PhD

12.30 – 12.55 Options and evidence for using targeted treatment and opportunities for tailored patient management with isavuconazole
Andreas H. Groll, MD

12.55 – 13.05 Q&A session

13.05 – 14.00 Lunch

14.00 – 15.30 Poster Viewing

15.30 Close
DAY 3: Saturday 3 February

Meet the Professor

08.00 – 08.50  News from the Chronic Aspergillosis Group
                Helmut Salzer, MD

08.00 – 08.50  How it all starts: dormancy and germination in Aspergillus
                Michelle Momany, PhD

Resistance in Aspergillus

Moderators: David S. Perlin, PhD & Ana Alastruey-Izquierdo, PhD

09.00 – 09.25  Mechanisms of non-CYP51 azole resistance
                Ling Lu, PhD

09.25 – 09.40  Abstract #42: In-host microevolution of Aspergillus fumigatus: a phenotypic and genotypic analysis
                Eloise Ballard

09.40 – 09.55  Abstract #2: A novel azole importer (Imp1) in Aspergillus fumigatus
                Aiah Khateb, MSc

09.55 – 10.10  Abstract #156: Understanding the mechanistic basis of echinocandin resistance in Aspergillus fumigatus
                Shruthi Satish, PhD

10.10 – 10.35  Global epidemiology of azole resistance in Aspergillus
                Anuradha Chowdhary, MD PhD

10.35 – 11.05  Coffee Break

Basic Science Discovery and Mechanism

Moderators: Michelle Momany, PhD & Célia Pais, PhD

11.05 – 11.30  NMR & EM of biofilm and extracellular matrix
                Lynette Cegelski, PhD

11.30 – 11.45  Abstract #172: Structure of Aspergillus fumigatus calcineurin-FKS06-FKBP12 complex reveals critical FKBP12-binding residues distinct from human FKBP12 and the potential for development of non-immunosuppressive FKS06 analogs as antifungal therapeutics
                Praveen Juvvadi, PhD

11.45 – 12.00  Abstract #152: Canonical versus noncanonical autophagy in the fight against Aspergillus fumigatus infection
                Vasilis Oikonomou, PhD

12.00 – 12.15  Abstract #22: Hsp90 controls caspofungin paradoxical effect of Aspergillus fumigatus via the mitochondrial respiratory chain
                Marion Aruanno
12.15 – 12.40  Viruses of fungi, with a focus on *Aspergillus*
Wendy van de Sande, PhD

12.40 – 14.10 *Lunch and Poster Session 2*

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**Mucormycosis Update**
Moderators: John Perfect, MD & Anuradha Chowdhary, MD PhD

14.10 – 14.35  Contrasts between mucormycosis and aspergillosis in leukemia
Nikolai Klimko, MD PhD

14.35 – 15.00  The genera and species of the Mucorales: an update
Kerstin Voigt, PhD

15.00 – 15.15  Abstract #103: PCR-based diagnosis of mucormycosis targeting mucorales specific genes
Clara Baldin, PhD

15.15 – 15.30  Abstract #26: RNA interference-dependent epimutations as a mechanism of drug resistance in *Mucor circinelloides*
Zanetta Chang

15.30 – 15.55  Mucormycosis axis of evil: iron uptake, invasion and toxin production
Ashraf Ibrahim, PhD

15.55 – 16.25  *Coffee Break*

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**Risks for *Aspergillus*-Related Diseases**
Moderators: Nikolai Klimko, MD PhD & Miguel Borrego, MD

16.25 – 16.50  Why does ibrutinib carry a risk of cerebral aspergillosis?
Georgios Hamilos, PhD

16.50 – 17.05  Abstract #59: Disease-stratified incidence, risk factors and outcomes of galactomannan positive invasive aspergillosis
Toine Mercier, MD

17.05 – 17.30  Occupational exposures and diseases
Raquel Sabino, PhD

17.30 – 17.45  Abstract #56: Self-assessment and symptom domains of St George’s Quality of Life questionnaire predicts clinical failure in chronic pulmonary aspergillosis
Felix Bongomin, MD

17.45 – 18.10  The human lung and *Aspergillus*: you are what you breathe in?
Malcolm Richardson, PhD

18.10 – 18.15  *Closing remarks*
David A. Stevens, MD

18.25  Snacks and Discussion about AAA 2020