



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



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 Matthaïou, PhD



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



12.05 – 12.20 **Abstract #93: IL-10 overexpression *in vivo* promotes susceptibility to aspergillosis by suppressing innate and adaptive pulmonary antifungal immunity**
Cláudio 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***

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 Hönigl, MD

15.50 – 16.20 ***Coffee Break***

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



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



17.30 – 17.55 **Recent advances in diagnosis and treatment of allergic aspergillosis**
Richard B. Moss, MD

18.00 – 19.00 ***Welcome Reception***

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.



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



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



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



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 | <i>Lunch</i> |
| 14.00 – 15.30 | Poster Viewing |
| 15.30 | Close |



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



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-FK506-FKBP12 complex reveals critical FKBP12-binding residues distinct from human FKBP12 and the potential for development of non-immunosuppressive FK506 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



8th ADVANCES AGAINST ASPERGILLOSIS

Lisbon, Portugal

1 - 3 February 2018

Lisboa Congress Centre



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***

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***

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