**SUNDAY, FEBRUARY 18**

Arrival and Registration

**MONDAY, FEBRUARY 19**

**Welcome and Keynote Address (X7)**

Kirsten Nielsen, University of Minnesota, USA

One Gene to Rule Them All

**Welcome and Keynote Address (X8)**

Hamida Hammad, Ghent University & VIB, Belgium

Regulation of Barrier Immunity in the Lung

Kathy D. McCoy, University of Calgary, Canada

Talk Title to be Announced

**Host-Cryptococcus Interactions (X7)**

Arturo Casadevall, Johns Hopkins University, USA

*What have we Learned About Cryptococcal Virulence in the Past Decade*

Mari L. Shinohara, Duke University, USA

*Host Immune Responses Against Cryptococcus Infection*

Amariliz Rivera-Medina, Rutgers New Jersey Medical School, USA

*Insights on the Activation of Trained Immunity Against Pulmonary Fungal Infections*

Atsushi Miyashita, Teikyo University, Japan

*Short Talk: Primed Immune Responses in the Silkworm (Bombyx mori) Enhance the Immune Barrier to Fungal and Bacterial Pathogens*

**Host-Microbe Interactions in Health and Disease (X8)**

Kenya Honda, Keio University School of Medicine, Japan

*Colonization resistance against intestinal pathogen infection*

Lora V. Hooper, University of Texas Southwestern Medical Center, USA

*Bacterial Regulation of Epithelial Barriers*

Eran Elinav, Weizmann Institute of Science, Israel

*Microbiota Metabolite Regulation of Immune Function*

**Short Talks Chosen from Abstracts**

**Career Roundtable (Joint)**

**Workshop 1: New Research Developments from Junior Investigators (X7)**

Yogesh Scindia, University of Florida, USA

*Hepcidin Deficiency: A Novel Host Susceptibility Factor in Disseminating Candidiasis*

Marcos Isidoro-Ayza, University of Wisconsin-Madison, USA

*Stealth Behavior of Pseudogymnoascus destructans during Early White-nose Syndrome of Bats*

Jianfeng Lin, Lundquist Institute, USA

*IL-17A Enhances C. albicans-induced Proinflammatory Cytokine Production in Oral Epithelial Cells by Relieving Translation Repression*

Peter C. Cook, University of Exeter, UK

*Mgl2+ cDC2 Driven Anti-fungal Allergic Inflammatory Responses is Highly Dependent on a Glycolytic Switch, Orchestrated by Both Spore Uptake and the Lung Environment*

Eric Dang, NIH, USA

*Regulation of Persistent Fungal Infection by Alternatively Activated Macrophages*

Judith Behnson, University of Illinois at Chicago, USA

*Salmonella, Candida Albicans, and Arginine: Intricate Cross-Talk in the Gut Enhances Bacterial Virulence*

Darin Wiesner, Rutgers - New Jersey Medical School, USA

*Epithelial Hypoxia Maintains Colonization Resistance against Candida Albicans*

**Workshop 1 (X8)**

**Short Talks Chosen from Abstracts**

**What is New on the Candida-Mucosal Interface (X7)**

Sarah L. Gaffen, University of Pittsburgh, USA

*IL-17, the Oral Mucosa, and the Local Microbiome*

Julian Naglik, King’s College London, UK

*An Update on Candidalysin*

**Vascular-Epithelial-Immune Interactions at Barrier Surfaces (X8)**

Jakob H. von Moltke, University of Washington, USA

*Tuft Cell Sensing of the Barrier Surface*

Shruti Naik, New York University Langone Health, USA

*Regulation of Sensing and Inflammation in the Skin*

Maria Rescigno, Humanitas University, Italy

*The Microbiota in Gut-Liver-Brain Axis*

Jamie M. Oreno, Regeneron Pharmaceuticals Inc., USA

*Cytokines in Asthma*
**Poster Session 1**

**TUESDAY, FEBRUARY 20**

**Fungal Recognition and Innate Immunity (X7)**

- **Gordon D. Brown**, University of Exeter, UK
  - The Role of C-Type Lectin Receptor Signaling in Response to Various Fungi

- **Sho Yamasaki**, Osaka University, Japan
  - Immunological and Biochemical Aspects of C-Type Lectin Receptors in Fungal Infections

- **Jatin M. Vyas**, Massachusetts General Hospital, USA
  - Rewiring Macrophages Using Extracellular Vesicles to Prime Innate Immune Responses to C. Albicans

- **Partha S. Biswas**, University of Pittsburgh, USA
  - Metabolic Regulation of Antifungal Function of Neutrophils

- **Axel Dietschmann**, Leibniz-HKI, Germany
  - Short Talk: The Hyphal Morphology Triggers Inflammatory Cell Death in Human Macrophages

- **Brendan D. Snarr**, National Institute of Allergy and Infectious Diseases, USA
  - Short Talk: Card9-expressing Monocytes are Critical in Defending against Fungal Encephalitis

**Neuro-Immune Regulation of Barrier Immunity (X8)**

- **Daniel Mucida**, Rockefeller University, USA
  - Neuro-Immune Interactions in the Gut

- **Brian Kim**, Mount Sinai, USA
  - Neuronal Regulation of Skin Barrier Function

- **David Artis**, Weill Cornell Medical College, USA
  - Neuro-Immune Interactions in Tissue Homeostasis

**Short Talks Chosen from Abstracts**

**Workshop 2 (X8)**

**Short Talks Chosen from Abstracts**

**Inhalation-Acquired Fungal Pathogens (X7)**

- **Elizabeth R. Ballou**, University of Exeter, UK
  - Mucorales-Bacterial Interactions

- **Ashraf Ibrahim**, University of California, Los Angeles, USA
  - Host-Mucorales Interactions

- **Bridget Marie Barker**, Northern Arizona University, USA
  - The Ecology and Genomics of Coccidioides

- **Mariano Aufiero**, Memorial Sloan Kettering Cancer Center, USA
  - Short Talk: Dectin-1/CARD9 Induction of the TFEB and TFE3 Gene Network is Dispensable for Phagocyte Anti-Aspergillus Activity in the Lung

**Alexander W. Rapp**, Dartmouth College, USA
- Short Talk: Uncovering Alterations in the Murine Interferon Response due to dsRNA Mycovirus during Aspergillus fumigatus Infection

**Dietary Regulation of Microbiota and Metabolites at Barrier Surfaces (X8)**

- **Yasmine Belkaid**, NIAID, National Institutes of Health, USA
  - Dietary Regulation of Inflammation

- **Michael A. Fischbach**, Stanford University, USA
  - Dietary-and Microbiota-Derived Metabolites Regulate Inflammation at Barriers

**Short Talks Chosen from Abstracts**

**Poster Session 2**

**WEDNESDAY, FEBRUARY 21**

**Translational Mycology (X7)**

- **David S. Blehert**, USGS, USA
  - Ecology and Pathobiology of Bat White-Nose Syndrome

- **Leah E. Cowen**, University of Toronto, Canada
  - A Novel Platform for Developing Therapeutics for Drug-Resistant Fungal Pathogens

- **Iliyan D. Iliev**, Weill-Cornell Medical College, USA
  - Interfacing the Mycobiota, Neuroimmunity and Inflammation

- **Michail Lionakis**, NIAID, National Institutes of Health, USA
  - Fungal Immunity from the Bench to Bedside: Lessons from Inborn Errors of Immunity

- **Feng Zhu**, Center for Cancer Research, NCI/NIH, USA
  - Short Talk: Oral C. Albicans Infection Promotes Upper GI Tract Tumor Progression via Neutrophil Dysfunction and EGFR Activation

- **Henry Philip Taylor**, University of Oxford, UK
  - Short Talk: SYK Gain of Function Variants Alter the Host Immune Response to Intestinal Fungi

**Initiation and Regulation of Chronic Inflammation and Cancer (X8)**

- **Fiona M. Powrie**, University of Oxford, UK
  - Regulation of Inflammation

- **Feng Shao**, National Institute of Biological Sciences, China
  - Molecular Mechanisms of Bacterial Infection and Host Innate Immunity Defense

**Speaker to be Announced**

**Short Talks Chosen from Abstracts**

**Workshop 2: Women and Minority Rising Stars in Science (X7)**
Riley Risteen, University of Maryland, Baltimore, USA
A Cunning Foe: Exploring the Interface between Cunninghamella bertholletiae and Lung Epithelium

Shannon Righi, Tulane University School of Medicine, USA
Bone Marrow Expansion Induced by Candida Dublinsiensis Drives Protective Trained Immunity against Fungal/Bacterial Sepsis and is Dependent on Card9 Signaling

Lynn H. Bimler, Baylor College of Medicine, USA
Developing a Chronic Model of Candida Albicans Cerebral Mycosis through Gut Colonization

Estefany Yamilet Reyes, Duke University, USA
Elucidating The Role of Central Nervous System (CNS)-Resident Cells During Cryptococcal Meningoencephalitis

Ganlin Qu†, University of Florida, USA
The Heme-scavenger, Hemopexin, Protects against Aspergillosis by Mitigating Lung Injury: An Experimental and Computational Study

Carla V. Rothlin, Yale University, USA
Integration of Recognition of Cell Death Recognition and Environmental Signals

Short Talks Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X7)
Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X8)

THURSDAY, FEBRUARY 22
Departure

Workshop 3 (X8)
Short Talks Chosen from Abstracts

Crosstalk Between the Fungus and the Host (X7)
Ilse D. Jacobsen, Leibniz Institute for Natural Product Research and Infection Biology, Germany
Synergistic Interactions Between Candida and Bacteria: Mechanisms and Consequences

Claire Hoving, University of Cape Town, South Africa
Host Recognition and Clearance of Pneumocystis: Investigating immune Mediators and Mechanisms

Teresa O'Meara, University of Michigan Medical School, USA
Genetic Approaches to Understanding Candida auris Pathogenesis

Kevin P. Newhall, Case Western Reserve University, USA
Short Talk: Specific Macrophage States and Select Debaryomyces hansenii Strains Promote Immune Evasion

Cross-Tissue Interactions: Gut-Brain, Lung-Brain and Beyond (X8)
Anna Victoria Molofsky, University of California, San Francisco, USA
Neuronal Control of Inflammation in the CNS

Vassilis Pachnis, Francis Crick Institute, UK
Gut-Brain Axis in Local and Peripheral Physiology