SUNDAY, FEBRUARY 18

Arrival and Registration

MONDAY, FEBRUARY 19

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

Welcome and Keynote Address (X7)

Kirsten Nielsen, University of Minnesota, USA
One Gene to Rule Them All

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

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

Career Roundtable (Joint)

Workshop 1 (X8)

Short Talks Chosen from Abstracts

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
Mg2+ 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
Sensitization with Fungal Protease Allergen Establishes Long-lived, Allergenic Helper T Cell Memory in the Lung

Derek Bays, UC Davis Health, USA
Epithelial Hypoxia Maintains Colonization Resistance against Candida Albicans

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. Orengo, Regeneron Pharmaceuticals Inc., USA
Cytokines in Asthma

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

Marc Swidergall, University of California, Los Angeles, USA
Candida Commensalism and Structural Immunity

Daniel A. Wychrij, University of Georgia, USA
Short Talk: The Prevention and Treatment of Vulvovaginal Candidiasis in a Murine Model

Aize Pellon Rodriguez†, King's College London, UK
Short Talk: Polyamine Metabolism Regulates Protective Epithelial Immunity to Candida albicans

* Session Chair † Invited but not yet accepted       Program current as of January 14, 2024. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
Poster Session 1

TUESDAY, FEBRUARY 20

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

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

Workshop 2 (X8)

Short Talks Chosen from Abstracts

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

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

Poster Session 2

WEDNESDAY, FEBRUARY 21

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

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

Workshop 3 (X8)

Short Talks Chosen from Abstracts

Workshop 2: Women and Minority Rising Stars in Science (X7)

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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 Dublieniensis 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

Vanda Lerer, Hebrew University of Jerusalem, Israel
Viro-Fungal Tag-Team: Mycovirus-Mediated Modulation of Fungal Stress Responses, Fitness, and Virulence

Lena Heung†, Cedars-Sinai Medical Center, USA
GM-CSF Regulates Pulmonary Immune Responses to Cryptococcus Gatti

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

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

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

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

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