Molecular Pathogenesis:  
Mechanisms of Infectious Disease  
July 21-26, 2013  
Snowmass Village, Colorado

Organizers:  
Joseph Heitman  
Duke University  
Durham, NC  

John Leong  
Tufts University  
Boston, MA

Sunday,  
July 21, 2013
4:00PM - 9:00PM  
Conference Registration
6:00PM - 7:00PM  
FASEB Opening Reception
7:00PM - 8:00PM  
Dinner
8:15PM - 9:45PM  
Bernard Fields Lecture  
Jeremy Luban, University of Massachusetts Medical School  
“Innate Immunity to Retroviruses”

Monday,  
July 22, 2013
7:30AM - 9:00AM  
Breakfast

Session 1:  
9:00AM - 12:15PM  
Strategies for Evasion of Host Immunity  
Session Chair: Peggy Cotter, University of North Carolina at Chapel Hill

9:00AM - 9:15AM  
Welcome from FASEB
9:15AM - 9:45AM  
Peggy Cotter, University of North Carolina at Chapel Hill  
“How Bordetella Outwits Neutrophils”
9:45AM - 10:15AM  
Arturo Zychlinsky, The Max Planck Institute for Infection Biology
“How Neutrophils NET Pathogenic Microbes”

10:15AM - 10:30AM  
Short Talk Selected From Submitted Abstracts

10:30AM - 11:00AM  
FASEB Sponsored Coffee Break

11:00AM - 11:30AM  
David Tobin, Duke University Medical Center  
“Immune Control of Mycobacterial Infection in Fish and Humans”

11:30AM - 12:00PM  
Alejandro Aballay, Duke University Medical Center  
“Neural Control of Immunity”

12:00PM - 12:15PM  
Short Talk Selected From Submitted Abstracts

12:15PM - 1:30PM  
Lunch  
“Meet the Speaker” lunch tables for students and post-docs

1:30PM - 4:00PM  
Free Afternoon

4:00PM - 6:00PM  
Poster Session 1

6:00PM - 7:00PM  
Dinner

Session 2:
7:00PM - 9:45PM  
Modeling the Microbe-Host Interface  
Session Chair: Leah Cowen, University of Toronto

7:00PM - 7:30PM  
Emily Troemel, University of California San Diego  
“Microsporidian-Nematode Models of Disease”

7:30PM - 8:00PM  
Andreas Baumler, University of California Davis  
“Salmonella Metabolism in the GI Tract”

8:00PM - 8:15PM  
Short Talk Selected From Submitted Abstracts

8:15PM - 8:30PM  
Break

8:30PM - 8:45PM  
Short Talk Selected From Submitted Abstracts

8:45PM - 9:15PM  
Terry Mylonakis, Brown University  
“Heterologous Hosts for Microbial Pathogenesis”

9:15PM - 9:45PM  
Andrew Waters, University of Glasgow  
“Plasmodium Gametogenesis and Transmission Blockade”

Tuesday,  
July 23, 2013
7:30AM - 9:00AM  
Breakfast

Session 3:
9:00AM - 12:15PM  
New Ways to Combat Microbial Infections
Session Chair: Man-Wah Tan, Genentech

9:00AM - 9:30AM  Man-Wah Tan, Genentech  
“Harnessing the Immune System to Fight Infections”

9:30AM - 10:00AM  Leah Cowen, University of Toronto  
“Hsp90 and Antifungal Drug Action and Resistance”

10:00AM - 10:15AM  Short Talk Selected From Submitted Abstracts

10:15AM - 11:00AM  FASEB Sponsored Coffee Break and Group Photo

11:00AM - 11:15AM  Short Talk Selected From Submitted Abstracts

11:15AM - 11:45AM  Joe DeRisi, University of California San Francisco/HHMI  
“Novel Approaches to Plasmodium Treatment”

11:45AM - 12:15PM  Arturo Casadevall, Albert Einstein College of Medicine  
“Rethinking Antibody Mediated Immunity”

12:15PM - 1:30PM  Lunch  
“Meet the Speaker” lunch tables for students and post-docs

1:30PM - 4:00PM  Free Afternoon

4:00PM - 6:00PM  Poster Session 2

6:00PM - 7:00PM  Dinner

Session 4:  
7:00PM - 9:45PM  How Pathogenic Microbes Evolved and are Evolving  
Session Chair: Arturo Casadevall, Albert Einstein College of Medicine

7:00PM - 7:30PM  David Sacks, NIH/NIAID  
“Sexual Reproduction and Evolution of Leishmania”

7:30PM - 8:00PM  Audrey Odom, Washington University  
“Targeting Plasmodium for Therapy”

8:00PM - 8:15PM  Short Talk Selected From Submitted Abstracts

8:15PM - 8:30PM  Break

8:30PM - 8:45PM  Short Talk Selected From Submitted Abstracts

8:45PM - 9:15PM  Heather True-Krob, Washington University  
“Yeast Models of Prion Diseases”

9:15PM - 9:45PM  John Rawls, University of North Carolina at Chapel Hill  
“The Zebrafish Microbiome and Education of Host Immunity”
Wednesday,  
July 24, 2013  
7:30AM – 9:00AM      Breakfast

Session 5:  
9:00AM - 12:15PM  
**Microbe-Immune Cell Interactions**  
Session Chair: Bill Goldman, University of North Carolina at Chapel Hill

9:00AM - 9:30AM   Bill Goldman, University of North Carolina at Chapel Hill  
“Role and Regulation of a Molecular Mimic in Histoplasma Pathogenesis”

9:30AM – 10:00AM   Michall S. Lionakis, NIH/NIAID  
“Host Susceptibility to Invasive Candidasis: the Role of Chemotactic Factors”

10:00AM – 10:15AM   Short Talk Selected From Submitted Abstracts

10:15AM – 10:45AM   FASEB Sponsored Coffee Break

10:45AM – 11:15AM   June Round, University of Utah  
“Microbes and Immunity in the GI Microbiota”

11:15AM – 11:45PM   Gordon Brown, University of Aberdeen  
“Dectin-1 and Innate Immunity to Infection”

11:45AM – 12:00PM   Short Talk Selected From Submitted Abstracts

12:00PM – 1:00PM   Lunch  
“Meet the Speaker” lunch tables for students and post-docs

1:00PM – 4:00PM   Free Afternoon

4:00PM – 6:00PM   Poster Session 3

6:00PM – 7:00PM   Dinner

Session 6:  
7:00PM - 9:45PM  
**How Pathogenic Microbes Usurp Host Cells**  
Session Chair: Paula Traktman, Medical College of Wisconsin

7:00PM - 7:30PM   Paula Traktman, Medical College of Wisconsin  
“Life in the Cytoplasm for a DNA Virus: an Update on the Choreography of Vaccinia Virus Replication and Morphogenesis”

7:30PM - 8:00PM   Glenn Telling, Colorado State University  
“Mouse Models of Human Prion Diseases”

8:00PM - 8:15PM   Short Talk Selected From Submitted Abstracts
8:15PM – 8:30PM Break

8:30PM – 8:45PM Short Talk Selected From Submitted Abstracts

8:45PM - 9:15PM Bryan Cullen, Duke University Medical Center
“Small RNAs and Viral Latency and Virulence”

9:15PM - 9:45PM Ralph Isberg, Tufts University and Howard Hughes Medical Institute
“Intracellular Growth of Legionella”

Thursday, July 25, 2013
7:30AM – 9:00AM Breakfast

Session 7: 9:00AM – 12:15PM
Microbial Communities and Interface with the Host
Session Chair: Lora Hooper, Southwestern Medical Center/HHMI

9:00AM – 9:30AM Lora Hooper, Southwestern Medical Center/HHMI
“Immune Defense of the Intestinal Epithelial Surface”

9:30AM – 10:00AM Julie Segre, NIH/National Human Genome Research Institute
“The Human Skin Microbiome in Health and Disease”

10:00AM – 10:15AM Short Talk Selected From Submitted Abstracts

10:15AM – 10:45AM FASEB Sponsored Coffee Break

10:45AM – 11:15AM Deborah Hogan, Dartmouth Medical School
“Eavesdropping on Bacterial-Fungal Dialogs”

11:15AM – 11:45PM Annika Scheynius, Karolinska Institute
“Malassezia: Casual Agents of Inflammatory Skin Diseases”

11:45AM – 12:00PM Short Talk Selected From Submitted Abstracts

12:00PM – 12:30PM Business Meeting

12:30PM – 1:30PM Lunch
“Meet the Speaker” lunch tables for students and post-docs

1:30PM – 6:00PM Free Afternoon

6:00PM – 7:00PM Dinner

Session 8: 7:00PM – 9:45PM
Molecular Pathogenesis Virulence Mechanisms
Session Chair: David Sibley, Washington University
7:00PM – 7:30PM  
David Sibley, Washington University  
“Molecular Mechanism of Toxoplasma Virulence”

7:30PM – 8:00PM  
Katya Heldwein, Tufts University  
“Host Membrane Manipulation by Herpes Viruses on the Way in and Out”

8:00PM – 8:15PM  
Short Talk Selected From Submitted Abstracts

8:15PM – 8:30PM  
Break

8:30PM – 8:45PM  
Short Talk Selected From Submitted Abstracts

8:45PM – 9:15PM  
John McKinney, Swiss Federal Institute of Technology Lausanne  
“Real-Time Single-Cell Perspective on Microbial Persistence”

9:15PM – 9:45PM  
Aaron Mitchell, Carnegie Mellon University  
“Constructing and Deconstructing Biofilms”

Friday,  
July 26, 2013
7:30AM – 8:30AM  
Breakfast

Session 9:  
8:30AM-11:00AM  
Career Development, Publishing, NIH Grant Reviews  
Discussion session for all who are interested, especially graduate students, post-doctoral fellows and junior faculty

8:30AM - 11:00AM  
Eduardo Montalvo, (confirmation pending) Scientific Review Officer, NIH/CSR  
Peggy Cotter, Editor, University of North Carolina at Chapel Hill  
John Leong, Chair, Departments of Molecular Biology and Microbiology, Tufts University School of Medicine

11:00AM  
Departures  
Boxed Lunches Available

END OF CONFERENCE

For additional information contact:  
FASEB Science Research Conferences  
9650 Rockville Pike  
Bethesda, MD 20814

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