Microbial Pathogenesis: 
Mechanisms of Infectious Disease 
July 24 – 29, 2011
Snowmass Village, Colorado

Co-Organizers:
Peggy Cotter 
University of North Carolina, Chapel Hill 
Chapel Hill, NC

Joseph Heitman 
Duke University 
Durham, NC

Sunday, 
July 24, 2011
4:00PM – 9:00AM 
Conference Registration

6:00PM – 7:00 PM 
FASEB Opening Reception

7:00PM – 8:30 PM 
Dinner

8:45PM – 10:00PM 
Keynote Speaker: Terence Dermody, Vanderbilt University
“The Journey of Reovirus to the Brain”

Monday, 
July 25, 2011
7:30AM – 9:00AM 
Breakfast

Session 1: 
9:00AM – 12:15PM 
Co-evolution of Microbe-host Interactions

9:00AM – 9:15AM 
Welcome from FASEB

9:15AM - 9:45AM 
Margaret McFall-Ngai, University of Wisconsin, Madison
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>9:45AM – 10:15AM</td>
<td>“Title of talk”</td>
<td>Patricia Johnson, UCLA “Trichomonas vaginalis surface determinants and pathogenesis”</td>
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<tr>
<td>10:15AM – 10:30 AM</td>
<td>Short Talk Selected From Submitted Abstracts</td>
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<td>10:30AM – 11:00AM</td>
<td>Group photo &amp; FASEB Sponsored Coffee Break</td>
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<tr>
<td>11:00AM – 11:30AM</td>
<td>“Xenorhabdus nematophila bacteria: enemy and ally of invertebrates”</td>
<td>Heidi Goodrich-Blair, University of Wisconsin</td>
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<td>11:30AM – 12:00PM</td>
<td>“Molecular arms races between primates and poxviruses”</td>
<td>Nels Elde, University of Utah</td>
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<td>12:00PM – 12:15PM</td>
<td>Short Talk Selected From Submitted Abstracts</td>
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<td>12:15PM – 1:15PM</td>
<td>Lunch</td>
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<tr>
<td>4:00PM – 6:00PM</td>
<td>Poster Session 1</td>
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<td>6:00PM – 7:00PM</td>
<td>Dinner</td>
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<td><strong>Session 2:</strong></td>
<td><strong>Evasion of Host Immunity</strong></td>
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<tr>
<td><strong>7:00PM – 9:45PM</strong></td>
<td>Session Chair Name, Organization</td>
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<td>7:00PM - 7:30PM</td>
<td>“The role of the fungal cell wall components, chitin and chitosan, in interactions with the host”</td>
<td>Jenny Lodge, Washington University – St. Louis</td>
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<td>7:30PM – 8:00PM</td>
<td>“Immune evasion by human herpesvirus-7”</td>
<td>Amy Hudson, Medical College of Wisconsin</td>
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<td>8:00PM – 8:15PM</td>
<td>Short Talk Selected From Submitted Abstracts</td>
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<td>8:15PM – 8:30PM</td>
<td>Break</td>
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<td>8:30PM – 8:45PM</td>
<td>Short Talk Selected From Submitted Abstracts</td>
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<tr>
<td>8:45PM – 9:15PM</td>
<td>“Bi-directional influences of innate immunity in vaginal candidiasis”</td>
<td>Mairi Noverr, Louisiana State University</td>
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<tr>
<td>9:15PM – 9:45PM</td>
<td>“Say hello to your little friends: beneficial gut bacteria as therapies for inflammatory disease”</td>
<td>Sarkis Mazmanian, California Institute of Technology</td>
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**Tuesday, July 26, 2011**

<table>
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<tbody>
<tr>
<td>7:30AM – 9:00AM</td>
<td>Breakfast</td>
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</table>
Session 3
9:00AM – 12:15PM
Virulence Gene Regulation
Session Chair Name, Organization

9:00AM - 9:30AM Eduardo Groisman, Yale University
“RNA-mediated control of Salmonella virulence”

9:30PM –10:00AM Scott Samuels, University of Montana
“A tale of two transcripts: gene regulation in Borrelia burgdorferi”

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

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

10:45AM – 11:15PM Ashley Chi, Duke University
“The role of erythrocyte microRNA in the malaria resistance of sickle cell diseases”

11:15PM – 12:00PM Scott Stibitz, CBER/FDA
“Title of talk”

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

12:15PM – 1:15PM Lunch

Free Afternoon

4:00PM – 6:00PM Poster Session 2

6:00PM – 7:00PM Dinner

Session 4:
7:00PM – 9:45PM Cellular Microbiology
Session Chair Name, Organization

7:00PM - 7:30PM John Leong, University of Massachusetts
“A role for actin pedestal formation in Stx-mediated disease”

7:30PM – 8:00PM Benhur Lee, UCLA
“Title of talk”

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 Victoria Auerbuch Stone, University of California, Santa Cruz
“Yersinia pseudotuberculosis molecular determinants influencing host cell NFkB signaling”

9:15PM – 9:45PM Jeff F. Miller, UCLA
“Reassessment of the Burkholderia Intracellular Lifecycle using a Photothermal Nanoblade”
Wednesday,  
July 27, 2011 
7:30AM – 9:00AM  
Breakfast 

Session 5 
9:00AM – 12:15PM  
Microbial Metabolism and Virulence  
Session Chair Name, Organization 
9:00AM - 9:30AM  
Michele Swanson, University of Michigan  
“Legionella pneumophila virulence, a response to starvation” 
9:30AM –10:00AM  
Leah Cowen, University of Toronto  
“Hsp90 Orchestrates Regulatory Circuitry Governing Fungal Drug Resistance and Morphogenesis: An Environmentally Contingent Chaperone Network” 
10:00AM – 10:15AM  
Short Talk Selected From Submitted Abstracts 
10:15AM – 10:45AM  
FASEB Sponsored Coffee Break 
10:45AM – 11:15PM  
Brendan Cormack, Johns Hopkins University  
“Candida glabrata sub-telomeres and virulence gene evolution” 
11:15PM – 12:00PM  
Nathaniel Moorman, University of North Carolina, Chapel Hill  
“The curious role of AMPK/mTOR signaling during HCMV infection” 
12:00PM – 12:15PM  
Short Talk Selected From Submitted Abstracts 
12:15PM – 1:15PM  
Lunch 

Free Afternoon 
4:00PM – 6:00PM  
Poster Session 3 
6:00PM – 7:00PM  
Dinner 

Session 6:  
7:00PM – 9:45PM  
Self/Non-self recognition/SocioMicrobiology  
Session Chair Name, Organization 
7:00PM - 7:30PM  
Karine Gibbs, Harvard University  
“Microbial land grab! Identity and territorial behavior in Proteus mirabilis” 
7:30PM – 8:00PM  
Robert Wheeler  
“Dynamics of Candida-host interaction during infection” 
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  
Richard Bennett, Brown University  
“The Parasexual Mating Cycle of Candida albicans”
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<td>7:30AM – 9:00AM</td>
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<td>9:00AM – 12:15PM</td>
<td><strong>Protein Virulence Factor Secretion and Function</strong></td>
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| 9:00AM - 9:30AM | Harris Bernstein, NIH  
*The mechanism of virulence factor secretion via the autotransporter pathway* |
| 9:30PM – 10:00AM | Hung Ton-That, University of Texas, Houston  
*Receptor-mediated cell adhesion by Gram-positive pili* |
| 10:00AM – 10:15AM | Short Talk Selected From Submitted Abstracts                          |
| 10:15AM – 10:45AM | FASEB Sponsored Coffee Break                                          |
| 10:45AM – 11:15PM | Stephen Melville, Virginia Tech  
*Linking type IV pili mediated gliding motility to cell division in Clostridium perfringens* |
| 11:15PM – 12:00PM | Miriam Braunstein, University of North Carolina, Chapel Hill  
*The SecA2 accessory Sec system of Mycobacterium tuberculosis* |
| 12:00PM – 12:15PM | Short Talk Selected From Submitted Abstracts                          |
| 12:15PM – 1:45PM | Lunch                                                                  |
| 1:00PM – 6:00PM | **Free Afternoon**                                                     |
| 4:00PM – 6:00PM | Poster Session 4                                                       |
| 6:00PM – 7:00PM | Dinner                                                                 |
| 7:00PM – 9:45PM | **Navigating the Intracellular Environment**                           |
| 7:00PM - 7:30PM | Matthew Welch, University of California, Berkeley  
*Mobilization of the actin cytoskeleton by microbial pathogens* |
| 7:30PM – 8:00PM | Robin May, University of Birmingham  
*Microbial parasitism of macrophages* |
| 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                          |
Manoj Duraisingh, Harvard University
“Host cell selection by the malaria parasite Plasmodium falciparum”

Friday,
July 29, 2011
7:30AM – 8:30AM
Breakfast

Session 9
8:30AM – 11:30PM
Many definitions of a Successful Scientific Career and Many Paths to Get There: What Will Yours Be?
Discussion session for students and post-docs

9:30AM - 11:30AM
Peggy Cotter, University of North Carolina, Chapel Hill
Other scientists, TBN

11:30AM
Departures
Boxed Lunches Available

END OF CONFERENCE

For additional information contact:

FASEB Summer Research Conferences
9650 Rockville Pike
Bethesda, MD 20814

snowmass@faseb.org

http://src.faseb.org