

ICG+P CONFERENCE SCHEDULE

Sunday, October 14th

5:00 p.m.-6:00 p.m. **Conference Check-in**
Conf. Registration Desk
Embassy Suites Hotel

6:00 p.m.-7:00 p.m. **Buffet Dinner**
Riverfront Ballroom
Embassy Suites Hotel

7:00 p.m.-7:15 p.m. **Opening Remarks**
Co-Chairs: Pam Hall and Lynn Hancock

Remembering Mark Shirliff-Ken Bayles

7:15 p.m.-8:15 p.m. **KEYNOTE SPEAKER 1**
Riverfront Ballroom

'Bacteria phage cooperation during mammalian infection.'

Dr. Anat Herskovits, Professor and member of the George S. Wise Faculty of Life Sciences at Tel Aviv University

'The biofilm adhesion protein Aap from *Staphylococcus epidermidis* forms zinc-dependent amyloid fibers.'

9:40 a.m.-10:00 a.m.
Heidi Crosby, University of Colorado Anschutz Medical Campus
'Host proteases modulate *Staphylococcus aureus* aggregation via processing of SasG.'

10:00 a.m.-10:20 a.m. **Break**
Riverfront Ballroom

Session 2: Treatment hurdles and approaches Moderators: Morgan Brown & Kelly Hines

10:20 a.m.-11:00 a.m.
Bret Sellman, MedImmune LLC
'Targeting *S. aureus* with a mAb cocktail to promote DFU healing.'

11:00 a.m.-11:20 a.m.
Som Chatterjee, University of California, San Francisco
'Different faces in β -lactam resistance of *Staphylococcus aureus*.'

11:20 a.m.-11:40 a.m.
Govindsamy VEDIYAPPAN, Kansas State University
'A novel transporter from Resistance Nodulation Division superfamily plays role in antimicrobial resistance and virulence in *S. aureus*.'

11:40 a.m.-12:00 p.m.
Jayaram Lakshmaiah Narayana, University of Nebraska Medical Center
'A novel peptide antibiotic with systemic in vivo efficacy against drug-resistant pathogens.'

12:00 p.m.-1:00p.m. **Lunch break**
Outside Riverfront Ballroom

1:00 p.m.-3:00 p.m. **Poster Session**
Elkhorn Room

3:00 p.m.-3:15 p.m. **Break**
Outside Riverfront Ballroom

3:15 p.m.-3:55 p.m.
Annaliesa Anderson, Pfizer, Inc.
'Divergent Strategies to Develop Vaccines that Prevent Gram Positive Infections.'

Monday, October 15th

8:00 a.m.-9:00 a.m. **KEYNOTE SPEAKER 2**
Riverfront Ballroom

'Exploiting phage evolution for the development of novel therapeutics.'

Dr. Vincent Fischetti, Professor and Head of the Laboratory of Bacterial Pathogenesis and Immunology at Rockefeller University

Session 1: Biofilms Moderators: Jeff Bose & Srivatsan Parthasarathy

9:00 a.m.- 9:20 a.m.
Elizabeth DeMain, University of Nebraska Medical Center
'Exploring the stochastic and temporal expression of virulence genes during biofilm development in *Staphylococcus aureus*.'

9:20 a.m.- 9:40 a.m.
Andrew Herr, Cincinnati Children's Hospital Medical Center

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3:55 p.m.-4:15 p.m.

Christopher Montgomery, Ohio State University
'MHC restriction in *S. aureus* infection.'

4:15 p.m.-4:35 p.m.

Xingmin Sun, University of South Florida
'Chimeric protein vaccines against *Clostridium difficile* infection in mice.'

Session 3: Gene regulation

Moderators: **Vinai Thomas & Keith Weaver**

4:35 p.m.-4:55 p.m.

Laty Cahoon, University of Illinois at Chicago
'The *Listeria monocytogenes* novel two component system SasYZ regulates expression of secretion chaperones and aids in the transition from the environment to the host gastrointestinal tract.'

4:55 p.m.-5:15 p.m.

Madison Collins, Montana State University
'SaeP and SaeQ Provide Regulatory Functions in Controlling *Staphylococcus aureus* Virulence.'

Tuesday, October 16th

8:00 a.m.-8:30 a.m. **NIH UPDATE**

Riverfront Ballroom

Clayton Huntley National Institutes of Health

8:30 a.m.-9:30 a.m. **KEYNOTE SPEAKER 3**

Riverfront Ballroom

'*S. aureus* α -toxin – Architect of Long Term Health Outcomes in the Host?'

Dr. Juliane Bubeck-Wardenburg, Professor of Pediatrics and Chief of the Division of Pediatric Critical Care Medicine at the Washington University School of Medicine

Session 3: Gene regulation

Moderators: **Vinai Thomas & Keith Weaver**

9:30 a.m.-9:50 a.m.

Joseph Alvin, University of Arizona
'Characterization of copper repressor CopY DNA repression in *Streptococcus pneumoniae*.'

9:50 a.m.-10:10 a.m.

Rachel Zapf, Ohio University
'The small RNA Teg41 regulates the alpha-PSMs and is required for virulence in *Staphylococcus aureus*.'

10:10 a.m.-10:30 a.m.

Robert Kuiack, University of Western Ontario
'Evaluating the role of GraS in promoting *Staphylococcus aureus* adaptation to combined antimicrobial conditions of human skin.'

10:30 a.m.-10:50 a.m. **Break**

Outside Riverfront Ballroom

Session 4: Host-pathogen interactions

Moderators: **Helmut Hirt & Heidi Crosby**

10:50 a.m.-11:10 a.m.

Katelynn Brann, University of Arkansas for Medical Sciences
'Defining the Interaction between *Staphylococcus aureus* and the Human Lung.'

11:10 a.m.-11:30 a.m.

Xi Chen, Loyola University of Chicago
'Defining the roles of lipases in the pathogenesis of *Staphylococcus aureus*.'

11:30 a.m.-11:50 a.m.

Andrew Frey, University of South Florida
'Insights into the Human Pathodegradome of the *Staphylococcus aureus* V8 Protease.'

11:50 a.m.-12:10 p.m.

McKenzie Lehman, University of Nebraska Medical Center
'Protease-mediated growth of *Staphylococcus aureus* on host proteins is opp3-dependent.'

12:10 p.m.-1:10 p.m. **Lunch Break**

Outside Riverfront Ballroom

1:15 p.m.-2:45 p.m. **Career Development Session**

- Dr. Annaliesa Anderson (Pfizer, Inc.)
- Dr. Juliane Bubeck Wardenburg (Washington University School of Medicine)
- Dr. Paul Fey (University of Nebraska Medical Center)
- Dr. Clayton Huntley (NIH/NIAID)
- Dr. Austin Nuxoll (University of Nebraska-Kearney)
- Dr. Bret Sellman (MedImmune, LLC)

6:00 p.m.-9:30 p.m. **Conference Banquet**
The Durham Museum

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Wednesday, October 17th

8:00 a.m.–9:00 a.m. **KEYNOTE SPEAKER 4**
Riverfront Ballroom

'Microbiota-mediated suppression of *Enterococcus faecium* in the lower intestinal tract.'

Dr. Eric G. Pamer, Professor and Hon. Head of the Division of Subspecialty Medicine, Enid A. Haupt Chair in Clinical Investigation and Director of the Center for Microbes, Inflammation & Cancer at Memorial Sloan Kettering Cancer Center

Session 4: Host Pathogen Interactions
Moderators: **Daniel Voth & Frances Alonzo**

9:00 a.m.–9:20 a.m.

Hannah Rowe, St. Jude Children's Research Hospital

'New Insights into Influenza virus mediated bacterial co-infections.'

9:20 a.m.–9:40 a.m.

Lilliana Radoshevich, University of Iowa
'Linking ISG15 to Cellular stress responses: lessons from Listeria infection.'

9:40 a.m.–10:00 a.m.

John Leech, University of California, San Francisco

'Early priming to Staphylococcal antigens sets the course for host immune tolerance vs. immunity.'

10:00 a.m.–10:20 a.m. **Break**
Riverfront Ballroom

Session 5: Metabolism
Moderators: **Shaun Brinsmade & Erica Keffeler**

10:20 a.m.–10:40 a.m.

Jessica Kelliher, University of Illinois at Urbana-Champaign

'Phosphate acquisition and homeostasis critically contribute to *Staphylococcus aureus* pathogenesis.'

10:40 a.m.–11:00 a.m.

Zachary DeMars, University of Kansas Medical Center

'Redirection of Metabolism in Response to Fatty Acid Kinase in *Staphylococcus aureus*.'

11:00 a.m.–11:20 a.m.

Kimberly James, University of Florida

'Interplay of nitric oxide synthase (NOS) and SrrAB

in modulation of *Staphylococcus aureus* metabolism and virulence.'

11:20 a.m.–11:40 a.m.

Joseph Sorg, Texas A&M University

'The requirement for the amino acid co-germinant during *C. difficile* spore germination is influenced by mutations in yabG and cspA.'

11:40 a.m.–12:00 p.m.

Mary Frances Nakamya, Mississippi State University

'The effect of impaired lysine decarboxylase gene on the stress responses in *Streptococcus pneumoniae* TIGR4.'

12:00 p.m. **Closing remarks & Exit survey**
Riverfront Ballroom

Co-Chairs: Pam Hall and Lynn Hancock

12:10 p.m. **Lunch Break**
Outside Riverfront Ballroom