

ICG+P CONFERENCE SCHEDULE

Sunday, October 9th

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
Big Blue Ballroom
Embassy Suites Hotel

7:00 p.m.–7:15 p.m. Opening Remarks

**Co-Chairs: Francis Alonzo, PhD &
Rita Tamayo, PhD**

7:15 p.m.–8:15 p.m. KEYNOTE SPEAKER 1
Big Blue Ballroom

'Therapeutic potential of a novel P-type ATPase that protects *Streptococcus mutans* from zinc intoxication.'

Jose Lemos, PhD, Associate Professor, University of Florida College of Dentistry.

Monday, October 10th

8:30 a.m.–9:30 a.m. KEYNOTE SPEAKER 2
Big Blue Ballroom

'Discovery of a mechanism linking sporulation, toxin, and motility in *Clostridioides difficile*.'

Shonna McBride, PhD, Associate Professor, Emory University School of Medicine.

Session 1: Antibiotic Resistance
Moderator: **Ivan Acosta**

9:30 a.m.–9:50 a.m.
Carolyn B. Ibberson, University of Oklahoma
'Precise spatial structure impacts antimicrobial susceptibility of *S. aureus* in polymicrobial wound infections.'

9:50 a.m.–10:10 a.m.
Anthony G. Pannullo, University of Iowa
'The *hexSDF* Operon Is Required for Daptomycin Resistance and Production of a Novel Glycolipid in *Clostridioides difficile*.'

10:10 a.m.–10:30 a.m.

Josué Flores Kim, UMass Chan Medical School
'Tailoring of surface polymers prevents antibiotic-induced bacteriolysis and directs cell elongation in *Streptococcus pneumoniae*.'

10:30 a.m.–10:50 a.m.

Danica Galonić Fujimori, University of California
'Revisiting mode of action of and resistance to oxazolidinone antibiotics.'

10:50 a.m.–11:10 a.m. Break
Courtyard

Session 2: Growth & Metabolism
Moderator: **Karine Dufresne**

11:10 a.m.–11:30 a.m.

Lynn Hancock, University of Kansas
'Characterization of N-linked glycoprotein utilization in *Enterococcus faecalis*.'

11:30 a.m.–11:50 a.m.

Ryan Singh, University of Nebraska Medical Center
'Staphylococcal nitric oxide synthase mitigates flavohemoglobin-mediated superoxide production to enhance fitness.'

11:50 a.m.–12:10 p.m.

Tania Wong, Columbia University
'Airway immunometabolites impact staphylococcal central metabolism and virulence via post-translational modification of targets.'

12:10 p.m.–12:30 p.m.

Diandra M. Vaval Taylor, University of Illinois at Chicago
'Two roles, one pheromone: a *Listeria monocytogenes* peptide pheromone that contributes to both vacuole escape and viability.'

12:30 p.m.–1:30 p.m. Lunch break
Outside Big Blue Ballroom

1:30 p.m.–3:00 p.m. Poster Session A
Elkhorn Ballroom

3:00 p.m.–3:20 p.m. Networking Break
Courtyard

3:20 p.m.–3:50 p.m. NIH UPDATE
Big Blue Ballroom

Clayton Huntley – National Institutes of Health

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Session 3: Regulation I

Moderator: Sasmita Panda

3:50 p.m.–4:10 p.m.

Anchal Mehra, University of North Carolina at Chapel Hill

'Establishing the regulons of CmrR and CmrT, *Clostridioides difficile* response regulators involved in motility and virulence.'

4:10 p.m.–4:30 p.m.

Karl Thompson, Howard University

'A novel SigS induced regulatory protein pair in *S. aureus*.'

4:30 p.m.–4:50 p.m.

Andrei P. Pomerantsev, NIH/NIAID

'AtxA binding is required for activation of toxin and small RNA promoters in *Bacillus anthracis*.'

4:50 p.m.–5:10 p.m.

M. Lauren Donnelly, Tufts University School of Medicine

'Development of a dual fluorescent reporter system in *Clostridioides difficile* reveals a division of labor between virulence and transmission gene expression.'

5:10 p.m.–5:30 p.m.

Ronan Carroll, Ohio University

'The small RNA Teg41 is a pleiotropic regulator of virulence in *Staphylococcus aureus*.'

Tuesday, October 11th

8:30 a.m.–9:30 a.m.

KEYNOTE SPEAKER 3
Big Blue Ballroom

'How staphylococci balance commensal vs. pathogen lifestyles'

Andreas Peschel, PhD, Professor, University of Tübingen; Head of the Infection Biology Department within the Interfaculty Institute of Microbiology and Infection Medicine Tübingen, Germany.

Session 4: Host-Pathogen

Moderator: Zongsen Zou

9:30 a.m.–9:50 a.m.

Valeria M. Reyes Ruiz, Vanderbilt University Medical Center

'Defining *S. aureus* regulatory systems that respond to environmental stresses at the host-pathogen interface.'

9:50 a.m.–10:10 a.m.

Flavia Costa, University of Colorado

'Development of skin-like media for studying *Staphylococcus aureus* human skin colonization determinants.'

10:10 a.m.–10:30 a.m.

Stephen Tufts, University of Western Ontario

'Staphylococcal superantigens can promote persistence during chronic orthopedic infection.'

10:30 a.m.–10:50 a.m. Break

Courtyard

Session 5: Clinical & Applied Microbiology

Moderator: Ronald Flannagan

10:50 a.m.–11:10 a.m.

Kaitlin Dailey, University of Nebraska Medical Center

'Development of CRISPR-modified *Clostridium novyi*-NT as an Intravenous, Multisite Pancreatic Cancer Therapeutic.'

11:10 a.m.–11:30 a.m.

Laura Cook, Binghamton University

'Genotypic and phenotypic characterization of *Streptococcus pyogenes* isolated from patients with acute pharyngitis and carriers.'

11:30 a.m.–11:50 a.m.

Danai Etter, University of Zurich

'*Bacillus thuringiensis* and *B. cytotoxicus* – the taxonomic collapse of the *B. cereus* group and the rise of the underdogs.'

11:50 a.m.–12:10 p.m.

Paul Planet, Children's Hospital of Philadelphia

'A phylogenomic approach to early life *Staphylococcus aureus* colonization.'

12:10 p.m.–1:10 p.m. Lunch

Outside Big Blue Ballroom

1:10 p.m.–2:40 p.m.

Poster Session B
Elkhorn Ballroom

2:40 p.m.–3:20 p.m.

Networking Break
Courtyard

Session 6: Host-Pathogen Interactions II

Moderator: Christopher Radka

3:20 p.m.–3:40 p.m.

Emilee Muster, University of South Florida

'Exploring *Staphylococcus aureus* Host-Pathogen Interaction Using Proteomic Technologies.'

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3:40 p.m.–4:00 p.m.

Andrew Herr, Cincinnati Childrens Hospital Medical Center

'Structural insights into corneocyte adhesion by Staphylococci.'

4:00 p.m.–4:20 p.m.

Keenan Lacey, NYU Grossman School of Medicine

'Secreted mammalian DNases protect against *S. aureus* infection by digesting biofilms.'

4:20 p.m.–4:40 p.m.

Nathan Archer, Johns Hopkins University

'Neutrophil-intrinsic TNF receptor signaling orchestrates host defense against *Staphylococcus aureus*.'

4:40 p.m.–5:00 p.m.

Haider Manzer, University of Colorado Anschutz Medical Campus

'Epigenetic Regulation through DNA Methylation Promotes Group B Streptococcal Vaginal Colonization.'

6:00 p.m.–9:00 p.m.

Conference Banquet
The Durham Museum

Wednesday, October 12th

8:30 a.m.–9:30 a.m.

KEYNOTE SPEAKER 4
Big Blue Ballroom

'Anti-angiogenic effects of *Staphylococcus aureus* superantigens: targeting vascular regeneration to promote disease.'

Wilmara Salgado Pabón, PhD, Assistant Professor, Pathobiological Sciences, University of Wisconsin-Madison.

Session 7: Stress & Pathogenesis

Moderator: Chunyi Zhou

9:30 a.m.–9:50 a.m.

Kimberly Gutierrez, University of Wisconsin Madison

'*Listeria monocytogenes* YvcJ and GlmR contribute to muropeptide synthesis to facilitate cell wall stress response.'

9:50 a.m.–10:10 a.m.

Yi Xu, Texas A&M Health Science Center

'A novel pathogenic mechanism for *Streptococcus gallolyticus* – type VII secretion, host receptor and role in colorectal cancer.'

10:10 a.m.–10:30 a.m.

Daniel Paredes-Sabja, Texas A&M University

'Impact of *Clostridioides difficile* spore-persistence in the intestinal mucosa to disease recurrence.'

10:30 a.m.–10:50 a.m. Break

Courtyard

Session 8: Regulation II

Moderator: Luke Joyce

10:50 a.m.–11:10 a.m.

Madison Stock, Loyola University of Chicago
'Characterizing MroQ-dependent Regulation of *Staphylococcus aureus* Quorum Sensing.'

11:10 a.m.–11:30 a.m.

Lin Zeng, University of Florida

'Glucose PTS modulates pyruvate metabolism, bacterial fitness, and microbial ecology in oral biofilm.'

11:30 a.m.–11:50 a.m.

Wenqi Yu, University of South Florida
'Spatial regulation of surface proteins in *Staphylococcus aureus*.'

11:50 a.m.–12:00 p.m. Closing remarks

Big Blue Ballroom

Co-Chairs: Francis Alonzo, III, PhD & Rita Tamayo, PhD

12:00 p.m.–1:00 p.m. Lunch Break

Outside Big Blue Ballroom

ICG+P POSTER SESSION “A” ABSTRACTS

MONDAY, OCTOBER 10, 2022
1:30 P.M.-3:00 P.M.

POSTER NUMBERS AND PRESENTERS

A01	Raeven Bastock	A20	Dominic McGrosso
A02	Blake Bertrand	A21	Ute Müh
A03	Kevin Bollinger	A22	Taylor Nye
A04	Camryn Bonn	A23	Sasmita Panda
A05	Jeff Boyd	A24	Alexandra Peterson
A06	Mara Campbell	A25	Magdalena Podkowik
A07	Liana Chan	A26	Grishma Prabhukhot
A08	Samuel Eallonardo	A27	Emily Pruitt
A09	Nicholas Faiola	A28	Fareha Razvi
A10	Jeffrey Freiberg	A29	Nicole Schwardt
A11	Neal Hammer	A30	Ryan Steere
A12	Andrea Herrera	A31	Robert Ulrich
A13	Jessica Jackson	A32	Zachary Van Roy
A14	Luke Joyce	A33	Shaohui Wang
A15	Gunjan Kak	A34	Gabrielle Watson
A16	Rebecca Keogh	A35	Jerry Woo
A17	Lee Korshoj	A36	Won-Sik Yeo
A18	Robert Kuiack	A37	Chunyi Zhou
A19	Laurie Lyon	A38	Christopher Healy



ICG+P POSTER SESSION “B” ABSTRACTS

TUESDAY, OCTOBER 11, 2022
1:10 P.M.—2:40 P.M.

POSTER NUMBERS AND PRESENTERS

B01	Ivan Acosta	B20	Cheyenne Lee
B02	Daiane Boff	B21	Abraham Mechesso
B03	Nick Carpino	B22	Krista Mills
B04	Soumyadeep Chakraborty	B23	Adriana Morales Rivera
B05	Ayan Chatterjee	B24	Amber Nguyen
B06	Karine Dufresne	B25	Dane Parker
B07	Ashley DuMont	B26	Christopher Radka
B08	Timothy Enroth	B27	Zachary Resko
B09	Liwei Fang	B28	Itidal Reslane
B10	Ronald Flannagan	B29	Concepcion Sanchez
B11	Vijay Gondil	B30	Cleofes Sarmiento
B12	Luke Handke	B31	Gwenn Skar
B13	Saika Hossain	B32	Qing Tang
B14	Mary-Elizabeth Jobson	B33	Nathanial Torres
B15	Theodora Karagounis	B34	Nicholas Walton
B16	Callahan Katrak	B35	Marcus Wittekind
B17	Pola Kuhn	B36	Brianne Zbylicki
B18	Kaylie Lam	B37	Zongsen Zou
B19	Catherine Leasure		

