







09:00 – 09:10 Welcome & Introduction to **STAPH-2023**

Conference Chair: Friedrich Götz, University of Tubingen, Germany

Session I - Pathogenesis

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	Chair: Michelle Callegan, University of Oklahoma Health Sciences Center, OK, USA
09:10 - 09:35	Contribution of a Highly Multiplexed Proteomic Method to Decipher Staphylococcal Pathogenesis Francois Vandenesch, University of Lyon Medical School, France
09:35 – 10:00	Finding the Perfect Match: Improving Murine Colonization Models by Using Mouse-Adapted Staphylococcus aureus Strains Silva Holtfreter, Greifswald Medical School, Germany
10:00 – 10:25	Persistent Bone Infections Lorena Tuchscherr de Hauschopp, Jena University Hospital, Germany
10:25 - 10:35	Short Break
10:35 – 11:00	Host Metabolites Impact the Pathogenesis of <i>S. aureus</i> Pneumonia Alice Prince, Columbia University, NY, USA
11:00 – 11:25	Uncovering the Executioner, Influenza and <i>S. aureus</i> Secondary Bacterial Pneumonia Timothy Borgogna , Montana State University, MT, USA
11:25 – 11:50	S. aureus Infections in Children: Host and Pathogen Contributions at the Infection Interface Kristin Moffitt, Harvard Medical School, MA, USA
11:50 - 12:00	Short Break
	Session II Dhysiology Esplany Adaptation

Session II - Physiology, Ecology, Adaptation

Chair: Kerry LaPlante, University of Rhode Island, RI, USA

12:00 – 12:25 The Staphylococcus aureus Type VII Secretion System and Interbacterial Competition Tracy Palmer, Newcastle University, United Kingdom
 12:25 – 12:50 Customizing Staphylococcus aureus Membrane Phospholipids from the Outside: Effects on Bacterial Physiology and Antibiotic Evasion Alexandra Gruss, Micalis Institute, France
 12:50 – 13:15 Copper Ions and the Staphylococcus aureus Host Interface Jeffrey M. Boyd, Rutgers University, NJ, USA
 13:15 – 13:40 Staphylococcus aureus Membrane Vesicles: A Novel Secretory System with Virulence Potential Jean C. Lee, Harvard Medical School, MA, USA

13:40 - 13:50 Short Break

Chair: Martie Vicent, University of Rhode Island, RI, USA

13:50 – 14:15 Bicarbonate Sensitization of MRSA to B-Lactams Arnold S. Bayer, The Lundquist Institute, CA, USA

DAY 1 MONDAY, FEBRUARY 27, 2023



16:05 – 16:15	Day 1 Concluding Remarks	
15:40 – 16:05	Interrogating the Promise of <i>Staphylococcus aureus</i> PBP4 as a Therapeutic Target Paul M. Dunman, University of Rochester, NY, USA	
	aureus Som S. Chatterjee, University of Maryland, MD, USA	
15:15 – 15:40	Role of PBP4 in Mediating Antibiotic Resistance and Pathogenesis of Staphylococcus	
	Chair: Erin Murphy, Ohio University, OH, USA	
Session III – Penicillin-binding Proteins (PBPs)		
15:05 – 15:15	Short Break	
14:40 – 15:05	Multifaceted Role of Metabolism in <i>Staphylococcus aureus</i> Pathogenesis Dane Parker, Rutgers New Jersey Medical School, NJ, USA	
14:15 – 14:40	Spatial Regulation of Surface Proteins in <i>Staphylococcus aureus</i> Wenqi Yu, University of South Florida, FL, USA	



09:00 – 09:10 Day 2 Opening Remarks

	Session IV – Regulation
	Chair: Birgit Strommenger, Robert Kotch Institute, Germany
09:10 - 09:35	Small Regulatory RNAs in <i>S. aureus</i> : Key Partners to Host Adaptation, Iron-Sparing Response and Virulence Philippe Bouloc, University of Paris-Saclay, France
09:35 – 10:00	Role of (p)ppGpp in Antibiotic Resistance, Tolerance, Persistence and Survival in Staphylococcus aureus and Other Firmicutes Christiane Wolz, University of Tübingen, Germany
10:00 – 10:25	SarA and Protease-Mediated Post-Translational Regulation as a Promising Anti- Virulence Target in <i>Staphylococcus aureus</i> Osteomyelitis Mara Campbell, University of Arkansas for Medical Sciences, AR, USA
10:25 - 10:35	Short Break

Session V – Antibiotic Treatment, Resistance, Target, and Side Effects

12:50 - 13:00	Short Break
12:40 – 12:50	Effect and Mechanism of Eliminating <i>S. aureus</i> by Electron Beam Irradiation and Reducing the Toxicity of its Metabolites Guanhong Chang, Northwest A&F University, China - Flash Talk
12:15 – 12:40	Understanding Vancomycin Nephrotoxicity Augmented by Beta-Lactams: A Synthesis of Endosymbiosis, Proximal Renal Tubule Mitochondrial Metabolism and Beta-Lactam Chemistry George Sakoulas, University of California San Diego, CA, USA
11:50 - 12:15	A Developmental Niche for Vancomycin-Intermediate <i>Staphylococcus aureus</i> Michael Olson, SIU School of Medicine Springfield, IL, USA
11:25 – 11:50	Evolutionary History of <i>S. aureus</i> Primes Antibiotic Resistance Evolution Anaëlle Fait, ETH Zürich, Switzerland
11:00 – 11:25	The Role of the PBPs in Life and Death: New Clues to a Still Unsolved Mystery Camilla Henriksen, University of Copenhagen, Denmark
10:35 – 11:00	Eliminating <i>S. aureus</i> and MRSA by Photobleaching its Golden Pigment Ji-Xin Cheng , Boston University, MA, USA
	Chair: Anjali Abhay Satoskar, Ohio State University, OH, USA

Session VI – Immune System Interaction

Chair: Balazs Rada, University of Georgia, GA, USA

13:00 – 13:25 Crosstalk Between *Staphylococcus aureus* Biofilm and Innate Immunity Influences Infection Persistence

Tammy Kielian, University of Nebraska Medical Center, NE, USA

14:40 - 14:50	Vote of Thanks and End of the Conference
	Cytosol Brian Conlon, The University of North Carolina, NC, USA
14:15 - 14:40	1 0
13:50 – 14:15	Mechanisms of Staphylococcal Interference with IsdB Vaccine George Liu, University of California San Diego, CA, USA
13:25 – 13:50	Immunity to <i>Staphylococcus aureus</i> Skin Infections: New Insights Into the Role of Neutrophils Nathan K. Archer, Johns Hopkins School of Medicine, MD, USA



USG-United Scientific Group (A non-profit organization) 8105, Suite 112, Rasor Blvd, PLANO, TX 75024 Email: staph@microbioconference.com Fax: +1-469-854-2278 Ph: +1-469-854-2280/81 Toll Free: +1-844-395-4102; Web: https://unitedscientificgroup.com/conferences/staph/