



STAPH-SYMPOSIA

July 9-10, 2025 | Online



IRC
Impact Research Communications

International Virtual Symposium
on
Staphylococcus aureus
and Staphylococcal Infections

July 09-10, 2025| Online

Time zone: Eastern Time (US & Canada)

08:30-08:35 Welcome and Introduction to STAPH SYMPOSIA

Session chair : Nathan Archer, Johns Hopkins University School of Medicine, MD, USA

	Plenary Speaker
08:35-09:20	Richard P. Novick, NYU Grossman School of Medicine, New York, NY, USA The AntiBacterial Drone (ABD) platform, a breakthrough antibiotic alternative for the treatment of MRSA and other multi-resistant staph infections
09:20-09:50	Dane Parker, Rutgers New Jersey Medical School, NJ, USA Metabolic impact on antimicrobial resistance
09:50-10:20	Joanne k Hobbs, University of St Andrews, United Kingdom Unravelling the molecular mechanisms behind Prs-mediated antibiotic tolerance
10:20-10:50	Wendy W K Mok, University of Connecticut, CT, USA Repair and resuscitation of <i>Staphylococcus aureus</i> fluoroquinolone persisters
10:50-11:20	Carmen Torres, University of La Rioja, Spain Evolution of clones, virulence and antimicrobial resistance profiles in <i>S. aureus</i> implicated in SSTI in pediatric patients, Spain

11:20-11:30 Discussion

11:30-11:50 Break

Session chair : Dane Parker, Rutgers New Jersey Medical School, NJ, USA

11:50-12:20	Nathan Archer, Johns Hopkins University School of Medicine, MD, USA Uncovering how <i>Staphylococcus aureus</i> overcomes the skin barrier
12:20-12:50	Morgan Severn, Duke University, NC, USA Deciphering the age-related response to <i>S. aureus</i> skin infection
12:50-13:20	Tania Wong Fok Lung, Rutgers New Jersey Medical School, NJ, USA Regulation of airway fumarate by host and pathogen promotes <i>S. aureus</i> pneumonia

13:20-13:30 Discussion

13:30-13:50 Break

Session chair : Morgan Severn, Duke University, NC, USA

13:50-14:20	Xiaogang Wang, Virginia-Maryland College of Veterinary Medicine, Virginia Tech, USA The hidden communicators: Staphylococcal aureus membrane vesicles
14:20-14:50	William Schwan, University of Wisconsin-La Crosse, WI, USA The BrpR/BrpS LytTR regulatory system regulates biofilm associated genes in <i>Staphylococcus aureus</i>
12:50-13:20	Shafi Azam, University of Chicago, IL, USA Coordination of septal peptidoglycan synthesis and protein anchoring in <i>Staphylococcus aureus</i>

15:20-15:30 Discussion

15:30 Break

08:30-08:40 Opening Remarks

Session chair : Prahathees Eswara, University of South Florida, FL, USA

- 08:40-09:10** Anita Campbell, The KIDS Research Institute Australia, Australia
Staphylococcus aureus paediatric epidemiology and whole-of-life clinical trials
- 09:10-09:40** Xiaolei Wang, University of Hong Kong, Hong Kong
A moonlighting protein vaccine induces robust antibody-independent protective immunity against Methicillin-resistant *Staphylococcus aureus* infection
- 09:40-10:10** Heather M Felgate, Quadram Institute Bioscience, United Kingdom
The diversity of Non-aureus Staphylococci: Insights into pathogenicity and commensalism
- 10:10-10:40** George Sakoulas, University of California, San Diego, CA, USA
The peptide and beta-lactam see-saw in *Staphylococcus aureus*
- 10:40-11:10** Vinai C. Thomas, University of Nebraska Medical Center, NE, USA
How Staphylococcal Spx promotes thiol homeostasis under disulfide stress

11:10-11:20 Discussion

11:20-11:40 Break

Session chair : Heather M Felgate, Quadram Institute Bioscience, United Kingdom

- 11:40-12:10** Julia A. Sharp, Old Dominion University, Norfolk, VA, USA
Clinical isolates are an important resource for therapeutic development efforts
- 12:10-12:40** Prahathees Eswara, University of South Florida, FL, USA
GpsB phosphorylation finetunes cell envelope biogenesis
- 12:40-13:10** Luis Longoria-Gonzalez, University of Oklahoma Health Sciences Center, OK, USA
Assessing the impact of pore-forming toxins in the pathogenesis of *Staphylococcus aureus* Endophthalmitis

13:10-13:20 Discussion

13:20-13:40 Break

Session chair : Luis Longoria-Gonzalez, University of Oklahoma Health Sciences Center, OK, USA

- 13:40-14:10** Meta Kuehn, Duke University, NC, USA
EV-mediated host interactions in *S. aureus*: Immune reactivity and environmental stability
- 14:10-14:40** Zachary Van Roy, University of Nebraska Medical Center, NE, USA
Site-specific metabolic activity induces immune dysfunction in neurosurgical biofilm infection
- 14:40-15:10** Liwen Deng, Harvard University, MA, USA
Staphylococcus aureus interactions with sensory neurons in itch and skin inflammation

15:10-15:20 Discussion

15:20 Break

Organized by



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