



Salmonella-2024

# Virtual Symposium on Salmonella Infections

June 25-26, 2024 | Online

Time zone: (Eastern Time US & Canada)

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## Day 1, Tuesday, 25th June, 2024

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**09:00 – 09:10 Welcome & Introduction to Salmonella-2024**

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**Session Chair: Virginie Stevenin, Leiden University Medical Center, The Netherlands**

**09:10 – 09:40 Sean P. Colgan, University of Colorado School of Medicine, CO, USA**  
Autophagic control of intracellular *Salmonella* in intestinal epithelial cells

**09:40 – 10:10 Ryan Charles Russell, University of Ottawa, Canada**  
*Salmonella* prevents autophagic degradation by targeting ER resident autophagy receptor FAM134B

**10:10 – 10:40 Anup Kollanoor Johny, University of Minnesota, MN, USA**  
One health-driven antimicrobial shields against *Salmonella*

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**10:40 – 11:00 Break**

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**Session Chair: Michael Joseph Shuster, University of Maryland, College Park, MD, USA**

**11:00 – 11:30 Linda J. Kenney, University of Texas Medical Branch, TX, USA**  
A pH-sensitive switch controls *Salmonella* virulence

**11:30 – 12:00 Xuefei Huang, Michigan State University, MI, USA**  
Development of carbohydrate based broad spectrum Anti-salmonella vaccines

**12:00 – 12:30 Dipshikha Chakravorty, Indian Institute of Science, India**  
Virulence factors, vacuolar niche, ecology and evasion success – Story of Intravacuolar pathogen

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**12:30 – 12:50 Break**

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**Session Chair: Ryan Charles Russell, University of Ottawa, Canada**

**12:50 – 13:20 Beth McCormick, UMass Chan Medical School, MA, USA**  
Salmonella, multidrug resistance, and cancer

**13:20 – 13:50 Virginie Stevenin, Leiden University Medical Center, The Netherlands**  
Multi-omic analyses of cancer-associated clinical *Salmonella* reveal a bacterial-induced host metabolic shift leading to cell transformation

**13:50 – 14:20 Camila Valenzuela-Montenegro, Institut Pasteur, France**  
The *Salmonella Typhimurium* effector SifA controls bacterial dormancy in epithelial cells

**14:20 – 14:50 Tim Johnson, University of Minnesota, MN, USA**  
Can we predict the next foodborne outbreak *Salmonella* strain? Combining genotype with phenotype to identify high-risk clones

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**14:50 Day 1 Closing Remarks**

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## **Day 2, Wednesday, 26th June, 2024**

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**09:00 – 09:10 Day 2 Opening Remarks**

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**Session Chair: Elhanan Tzipilevich, MIGAL – Galilee Research Institute, Kiryat-Shmona, Israel**

**09:10 – 09:40 Wenhan Zhu, Vanderbilt University Medical Center, TN, USA**  
Commensal iron acquisition modifies host nutritional immunity during *Salmonella* Infection

**09:40 – 10:10 Alejandro Piña Iturbe, Pontifical Catholic University of Chile, Chile**  
Exploring variable susceptibility to bacteriophage killing within a subpopulation of multidrug-resistant *Salmonella enterica* serovar Infantis

**10:10 – 10:40 Dmitri Kudryashov, Ohio State University, OH, USA**  
InSipA-able partners: the nature of the very tight association of *Salmonella* Invasion Protein A (SipA) with actin

**10:40 – 11:10 Jiqiang (Lanny) Ling, University of Maryland, College Park, MD, USA**  
Ribosome fidelity and heterogeneity in *Salmonella*

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## 11:10 – 11:40 Break

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**Session Chair: Elizabeth Nail**, University of Colorado School of Medicine, CO, USA

**11:40 – 12:10 Elhanan Tzipilevich**, MIGAL – Galilee Research Institute, Kiryat-Shmona, Israel  
*Salmonella* interaction with the plant immune system and the implications for food safety

**12:10 – 12:40 Ankit Pandeya**, Oregon Health and Science University, OR, USA  
Inflammasome activation mediated eicosanoid release from “Tuft cells” and downstream signaling in controlling enteric *Salmonella* infection

**12:40 – 13:10 Marijke Keestra-Gounder**, University of Colorado School of Medicine, CO, USA  
Nitrate-mediated luminal expansion of *Salmonella Typhimurium* is dependent on the ER stress protein CHOP

**13:10 – 13:40 Michael Joseph Shuster**, University of Maryland, College Park, MD, USA  
*Salmonella Typhimurium* infection inhibits macrophage IFN $\beta$  signaling in a TLR4-dependent manner

**13:40 – 14:10 Martina Tambassi**, Experimental Zooprophyllactic Institute of Lombardy and Emilia-Romagna, Italy  
*Salmonella* adaptation to swine goes through the decay of Salmonella pathogenicity Island I

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## 14:10 Closing Remarks

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### Contact us:

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