

Medical Microbiology and Immunology

MMI 291 Seminar Series

Emerging Challenges in Microbiology and Immunology

Current Theme: Interdisciplinary Research



Stacey Schultz-Cherry, Ph.D.

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Department of Infectious Diseases

St. Jude Children's Research Hospital

"Influenza in High Risk Populations"

Friday, December 7, 2018

Genome and Biomedical Sciences Facility, Auditorium Room 1005

12:10 PM – 1:00 PM

Dr. Schultz-Cherry's lab focuses on the pathogenesis of influenza and astroviruses in high risk populations. More recently, she has been studying the impact of obesity on influenza disease severity, evolution and vaccine responses.

Publication references:

Karlsson EA, Hertz T, Johnson C, Mehle A, Krammer F, Schultz-Cherry S. 2016. Obesity outweighs protection conferred by adjuvanted influenza vaccination. *mBio* 7(4): e01144-16. doi:10.1128/mBio.01144-16

Meliopoulos VA, Van de Velde LA, Van de Velde NC, Karlsson EA, Neale G, et al. (2016) An Epithelial Integrin Regulates the Amplitude of Protective Lung Interferon Responses against Multiple Respiratory Pathogens. *PLOS Pathogens* 12(8): e1005804. <https://doi.org/10.1371/journal.ppat.1005804>

Karlsson EA, Meliopoulos VA, van de Velde NC, van de Velde L, Mann B, Gao G, Rosch J, Tuomanen E, McCullers J, Vogel P, Schultz-Cherry S. 2017. A perfect storm: increased colonization and failure of vaccination leads to severe secondary bacterial infection in influenza virus-infected obese mice. *mBio* 8:e00889-17. <https://doi.org/10.1128/mBio.00889-17>