

2019 Summer Undergraduate Research Program Scholars' Final Presentations Friday, July 26, 8:30 a.m., Microbial Sciences Room 6201

8:30 - 8:45:	Exploring the role of Sphingosine-1-phosphate (S1P) in <i>Mus musculus</i> host response to <i>Toxoplasma gondii</i> infection. Agastya Sharma. Faculty mentor: Laura Knoll.
8:45 – 9:00:	Relating Chemotype and Phenotype to differences in Aflatoxin Production within Populations of Aspergillus flavus. <u>Tatum Satterlee</u> . Faculty mentor: Nancy Keller.
9:00 – 9:15:	Cyclic-di-AMP binding proteins employed as a detection method for mutants of gram-positive pathogens. Alexander Johnson. Faculty mentor: Tu Anh Huynh.
9:15 – 9:30:	Computationally-derived compounds as potential candidates for therapeutic treatment of Listeria monocytogenes infection. Hunter Ries. Faculty mentor: Rob Striker.
9:30 - 9:45:	Accumulation of the toxic intermediate UDP-Gal during galactose metabolism activates the SOS-response that leads to production of bacteriophages. Xinyi Kong. Faculty mentor: J.P. van Pijkeren.
9:45 - 10:00	Analysis and characterization of <i>Lactobacillus reuteri</i> -mediated killing of coliforms in spoiled orange juice. <u>Jacob Zabel</u> . Faculty mentor: J.P. van Pijkeren.
10:00 – 10:15:	Break
10:15 – 10:30:	Non-filamentous cells of enteric pathogens will better survive conditions of osmotic stress and will display higher levels of RpoS in all phases of growth. Brigitte Flannery. Faculty mentor: Chuck Kaspar.
10:30 - 10:45:	Impact of compatible solutes by <i>Salmonella</i> in food and subsequent persistence and thermal tolerance of the cells. <u>Tanner Bilstad</u> . Faculty mentor: Chuck Kaspar.
10:45 – 11:00:	Inhibition of <i>Clostridium perfringens</i> growth in uncured turkey product with and without clean-label antimicrobials and extended Phase 1 cooling. McKenna Mahnke. Faculty mentor: Andy Milkowski, Kathy Glass and Jeff Sindelar.
11:00 – 11:15:	Determination of D- and Z- values for <i>Listeria monocytogenes</i> in cream cheese products at different temperatures. <u>Yinuo Jin</u> . Faculty mentor: Kathy Glass.
11:15 – 11:30:	Analysis of <i>Aspergillus nidulans</i> ChIP-seq Data for the Regulation of Mycotoxin (aflatoxin) Production. <u>Ilhan Bok.</u> Faculty mentor: Jae-Hyuk Yu