

2021 Summer Undergraduate Research Program Scholars' Final Presentations Tuesday, July 27, 9:00 a.m.

Room 1520 Microbial Sciences.

GoToWebinar Link: https://attendee.gotowebinar.com/register/6376540036314129424

9:00 – 9:15:	The stress response of <i>Listeria monocytogenes</i> and its symbiotic relationship with <i>Aspergillus westerdijkiae</i> . Zhenyu Liu. Faculty mentor: Nancy Keller.
9:15 – 9:30:	Investigation of intestinal epithelium D6D knockout mice as a suitable environment for Toxoplasma gondii to undergo its sexual reproduction and life cycle. Martin Kelty. Faculty mentor: Laura Knoll.
9:30 – 9:45:	Investigating host interactions of <i>Entamoeba histolyti</i> ca in vitro and examining <i>Entamoeba muris</i> as a model organism. Jenna Ridler. Faculty mentor: Laura Knoll.
9:45 – 10:00:	Investigation of <i>Bacillus subtilis</i> as a model for <i>Listeria monocytogenes</i> cyclic-di-AMP activity. Shea Prouty. Faculty mentor: Tu Anh Huyhn.
10:00 – 10:15:	Genomic analysis, diversity and physiologic characteristics of <i>C. botulinum</i> Group I and Group II strains frequently used in food challenge studies. <u>Brooke Bowe</u> . Faculty mentor: Sabine Pellet.
10:15 – 10:30:	Use of a genome-wide association study (GWAS) to further understanding of host genetics and their role in dairy cow rumen microbial composition. Andrew Scheftgen. Faculty mentor: Garret Suen.
10:30 – 10:45:	Creation of an improved model for early detection of digital dermatitis in beef cattle in feedlots. Allie Hoerth. Faculty mentor: Doerte Dopfer.
10:45 – 11:00:	Differences between the bile-salt-resistant and bile-salt-susceptible strains of Escherichia coli and resulting acid tolerance, bile salt resistance, and novobiocin susceptibility. Milan Stolpman. Faculty mentor: Chuck Kaspar.
11:00- 11:15:	Fungicides used in agricultural settings and their impact on antibiotic resistance in environmental bacteria. Grayson Vanlue. Faculty mentor: Jeri Barak.
11:15-11:30:	Ensuring the Lethality of Salmonella on Pork Patty Surfaces During Impingement Cooking. Persephone Valentine. Faculty mentor: Andy Milkowski.
11:30- 11:45:	Assessing clean label ingredients in dairy products, their derivation and potential manipulation. <u>Suraj Chetty</u> . Faculty mentor: Jae-Hyuk Yu.