



**2022 Summer Undergraduate Research Program Scholars' Final Presentations**  
**Friday, July 29, 9:00 a.m., Microbial Sciences Room 6201**

Free Zoom webinar: [https://uwmadison.zoom.us/meeting/register/tJEpd-CuqzwjGtA8s7A\\_WlqrxFR2yJZjb-FI](https://uwmadison.zoom.us/meeting/register/tJEpd-CuqzwjGtA8s7A_WlqrxFR2yJZjb-FI)

- 9:00 – 9:15:** Prevalence and serotype-specific prevalence of Group B Streptococcus in the general population and pregnant adults.  
Koda Parker. Faculty mentor: Andrew Hryckowian.
- 9:15 – 9:30:** Investigating comorbidity of hereditary spastic paraplegia and toxoplasmosis.  
James Alvin. Faculty mentor: Laura Knoll.
- 9:30 – 9:45:** Investigating the ability of a natural preservative to inhibit of *Penicillium* species as a food-grade antifungal.  
Yohan Bok. Faculty mentor: Jae-Hyuk Yu.  
*Student stipend sponsored by Sargento Foods and Dairy Farmers of Wisconsin.*
- 9:45 – 10:00:** Investigation of novel organisms with biological control activity against *Penicillium expansum* in apples.  
Evan Digman. Faculty mentor: Nancy Keller.
- 10:00 – 10:15:** Investigating the mechanisms of the WalRK system in *Bacillus subtilis* as a model for *Listeria monocytogenes* cell wall homeostasis.  
Shea Prouty. Faculty mentor: Tu Anh Hyunh.
- 10:15 – 10:30:** Correlating *Clostridium botulinum* growth with botulinum neurotoxin production using the DIG-ELISA in model meat systems.  
Stevie Ward. Faculty mentor: Kristin Schill and Kathy Glass.  
*Student stipend sponsored by Tyson Foods.*
- 10:30 – 10:45:** Break
- 10:45 – 11:00:** Comparison of the microbial populations of the rumen and lower gut in cattle to understand the impact of abomasum acidity.  
Blythe Salamone. Faculty mentor: Steve Ricke
- 11:00 – 11:15:** Comparison of the bacterial and fungal communities between high efficiency and low efficiency dairy lactating cows.  
Nithya Attipetty. Faculty mentor: Garret Suen.
- 11:15 – 11:30:** Genetic factors responsible for biofilm properties in *Salmonella enterica* serovar Cerro.  
Andrew Tu. Faculty mentor: Garret Suen.



**11:30 – 11:45: Determination if *Xanthomonas gardneri* infection facilitates the migration of *Salmonella* into the apoplast of tomatoes.**

Grayson Vanlue. Faculty mentor: Jeri Barak.

**11:45- 12:00: Establishing the microbiota composition of the wing, breast, and dorsal feather locations for layer hens housed in conventional and aviary production models.**

Ashley Tarcin. Faculty mentor: Steve Ricke

**12:00 – 12:15: Investigating the impact of phosphates on thermal inactivation of Gram-negative foodborne pathogens.**

Anna Ardito. Faculty mentor: Chuck Kaspar.

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