



INBRE Summer Undergraduate Research Symposium
Thursday, July 29, 2021 Wyoming Union, Ballroom

8:30 a.m. Coffee/Tea, juice and muffins

9:00 a.m. Welcome and Opening Remarks

Annie Bergman, PhD., INBRE Student Program Director

Scott Seville, Ph.D., INBRE P.I./Director

9:10 a.m.

Elijah McCoy

Exercise as a tool to re-align a disrupted clock

With Emily Schmitt, PhD

9:30 a.m.

Danielle Ernste

Right versus left heart failure in mice by pulmonary artery banding and transaortic constriction.

With Danielle Bruns, Ph.D.

9:50 a.m.

Isabella Mijares

E-book Usage with Young Dual-Language Learners and Parents

With Mark Guiberson, Ph.D.

10:05 a.m.

Payton Peterson

Individualized Hydrogels for Peripheral Nerve Regeneration

With John Oakey, Ph.D.

10:20 – 10:30 a.m. BREAK

10:30 a.m.

Luis Hernandez

Biotyping pasteuraceae sp. isolates from nasal samples of domestic sheep.

With Kerry Sondgeroth, Ph.D.

10:50 a.m.

Mariah Saville

Comparison of Bacteria Isolates Between Sick and Healthy Bighorn Sheep Herds

With Kerry Sondgeroth, Ph.D.

11:10 a.m.

Madison Blaeser

Investigating Mycoplasma bovis in Free Ranging Ungulates

With Jennifer Malberg, Ph.D.

11:30 a.m.

Madison Davis

Confirming the Role of CBU1261 in Coxiella pathogenesis

With Elizabeth Case, Ph.D.

11:50 a.m.

Taylor Hatcher

Mechanisms for Resistance of Spreading Depolarization: Ion Channel Expression and Chill coma in Bumble Bees

With Michael Dillon, Ph.D.

12:10 –1:00 p.m. invited LUNCH
Wyoming Union Ballroom and Outdoors

(over)

1:05 p.m.

Steven Poyer

Investigating the relationship between disorder and function

With Grant Bowman, Ph.D.

1:20 p.m.

Brandon Phillips

The Effects of Propylene Glycol and Vegetable Glycerin from e-cigarette Vapor on Mice.

With Guanglong He, Ph.D.

1:35 p.m.

Daniel Carillo

Co-localization of autophagic protein with lipid droplet in obese mice

With Guanglong He, Ph.D.

1:50 p.m.

Rafael Homer

Understanding C. elegans Molting: Discovery of New Pieces of the Puzzle

With David Fay, Ph.D.

2:10-2:20 p.m. BREAK

2:20 p.m.

Jack Govaerts

Strain Between Strains: Antagonism and Compatibility in Myxobacteria

Development

With Dan Wall, Ph.D.

2:40 p.m.

Ashleigh Huss

Understanding the Gender Gap in Brain Disorders: Preclinical Studies with Mouse

Models

With Yun Li, Ph.D.

3:00 p.m.

Dipesh Pokharel

Artificial stimulation of cocaine-seeking neuronal pathway

With Ana Clara Bobadilla, Ph.D.

3:20 p.m.

Nataly Beacham

Ensemble-Specific Structural Synaptic Plasticity in Cocaine Exposure and Relapse

With Ana Clara Bobadilla, Ph.D.

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