## **2020 Winter Student Research Celebration**

# December 03, 2020

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Note: To search for a student's name, hit 'ctrl' and 'f' at the same time.	

### **POSTER SESSION 1 by Last Name**

11:00 am- 12:30 pm

Student, Mentor, Project	Room
Isaac Boyd: Electrical & Computer Engineering	
Mentor: Bradley Whitaker – Electrical & Computer Engineering	Room 4
Predicting the Spread of COVID-19 with Neural Networks	
Alec Christensen: Ecology	
Mentor: Bob Garrott – Ecology	Room 4
Chronic Wasting Disease and it's correlation to geographical landscape attributes	
Frances Cole: Cell Biology & Neuroscience	
Mentor: Seth Pincus, Tami Peters – Chemistry & Biochemistry	Room 1
Mapping the Targeted Cytotoxicity of Anti-HIV Monoclonal Antibodies	
Payton Dupuis: Chemical & Biological Engineering	
Mentor: Joseph Menicucci – Chemical & Biological Engineering	
Toward identification of a novel binding site for S-citalopram analog VK03-51 by	Room 2
computational docking methods using an inward conformation of human serotonin	
transporter.	
Michael Espinal: Mechanical & Industrial Engineering	
Mentor: Chelsea Espinal, Adrienne Phillips, Cecily Ryan – Mechanical & Industrial	Room 4
Engineering, Civil Engineering	KOOIII 4
Exploring the Utilization of Mineralized Fibers to Improve the Toughness of Cement	
Tatjana Groenewald: Cell Biology & Neuroscience	
Mentor: Margaret Eggers – Microbiology & Immunology	Room 1
HIV/AIDS and the Virgin Myth in South Africa	
James Gurney: Microbiology & Immunology	
Mentor: Tim McDermott – Land Resources & Environmental Sciences	Room 3
Developing Screening Methods for a Novel Methanogenic Pathway	
Gretchen Gutenberger: Chemical & Biological Engineering	
Mentor: Erika Espinosa-Ortiz, Robin Gerlach, Ellen Lauchnor – Chemical & Biological	
Engineering, Civil Engineering	Room 4
Understanding microbial interactions in fungal-bacterial biofilms: implications for	
environmental remediation	
Emiliano Hernandez: Microbiology & Immunology	
Mentor: Agnieszka Rynda-Apple – Microbiology & Immunology	Room 1
Infleunza Vaccine-Meditated Immunity	
Lillian Heys, Shawna Pratt: Microbiology & Immunology	
Mentor: Connie Chang – Chemical & Biological Engineering	Room 3
Comparing growth rates of Pseudomonas aeruginosa and Staphylococcus aureus in single-	
cell and bulk cultivation approaches.	

Seamus Hoolahan: Chemical & Biological Engineering	
Mentor: Sara Branco, Jennifer Lachowiec – Microbiology & Immunology, Plant Sciences &	Room 4
Plant Pathology	
Yellowstone Fungi: How pH Affects Fungal Growth	
Jake Kempa: Chemistry & Biochemistry	
Mentor: Seth Pincus, Valerie Copie – Chemistry & Biochemistry	Room 3
NMR and MS Metabolomics Reveal Distinct Metabolic States of Hypoglycemia Induced by	
Fasting or by Ricin Toxin	
Lexi Kyro: Microbiology & Immunology	
Mentor: Margaret Eggers – Microbiology & Immunology	Room 1
Cumulative Risk Assessment of Well Water on the Apsáalooke Reservation	
Tiana Linkus: Cell Biology & Neuroscience	
Mentor: Steve Stowers – Cell Biology & Neuroscience	Room 2
Dual Neurotransmitter Control of Drosophila Behavior, Physiology, and Development	
Zachary Mayne: Cell Biology & Neuroscience	
Mentor: Christa Merzdorf, Jennifer Forecki – Cell Biology & Neuroscience	
Determining the Role of Aquaglyceroporin-3b in Convergent Extension During Xenopus	Room 2
Gastrulation	
Alessandra Miller: Cell Biology & Neuroscience	
Mentor: Frances Lefcort – Cell Biology & Neuroscience	Room 2
The Impacts of ELP1 Deletion on the Neuroimmune System of the Gastrointestinal Tract	Noom 2
Kelli Ober: Chemistry & Biochemistry	
Mentor: Seth Pincus, Tami Peters – Chemistry & Biochemistry	Da 1
Measurement of the Antibody Response to Anti-HIV Immunoconjugates	Room 1
Garrett Perkins: Electrical & Computer Engineering	
Mentor: Bradley Whitaker – Electrical & Computer Engineering	Room 4
Detecting Cardiac Abnormalities from 12-lead ECG Signals Using Feature Extraction,	
Dimensionality Reduction, and Machine Learning Classification	
Matalin Pirtz: Chemical & Biological Engineering	
Mentor: Connie Chang – Chemical & Biological Engineering	Room 2
The Effects of Chemokines on Dendritic Cell Movement out of Matrigel	
Naomi Redfield: Animal & Range Sciences	
Mentor: Shelly Hogan – McNair Scholars Program	Room 1
Oral Micro-mineral Treatment in Yearling Beef Cattle to Decrease Morbidity and Increase	ROOM I
Performance	
Hannah Rieckers: Microbiology & Immunology	Room 3
Mentor: Eric Boyd, Daniel Colman – Microbiology & Immunology	
Phylogenetic characterization of Sre protein complex	
Amanda Ruckey: Microbiology & Immunology	
Mentor: Mari Eggars – Microbiology & Immunology	Room 1
2019 BASELINE FOODBORNE ILLNESS RISK FACTOR STUDY: GALLATIN COUNTY, MONTANA	
Matthew Thompson: Chemical & Biological Engineering	
Mentor: Ron June – Mechanical & Industrial Engineering	Poom 1
Clinical characteristics of joint pain, function, and biomarkers in a population of ranchers	Room 1
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Elizabeth Vinson: Physics	
Mentor: Recep Avci – Physics	Room 3
INVESTIGATION OF GRAPHITIC COATINGS AS AN ANTICORROSIVE ON COPPER AND NICKEL	
FOILS	
Mark Waldrup: Chemical & Biological Engineering	
Mentor: Stephanie Wettstein – Chemical & Biological Engineering	Room 4
Solvent and Reaction Condition Effects on Furfural Degradation	
Annie Waldum: Chemistry & Biochemistry	
Mentor: Valérie Copié, Frances Lefcort – Chemistry & Biochemistry, Cell Biology &	Poom 2
Neuroscience	Room 3
Understanding the impact of neurodegeneration on metabolism in Familial dysautonomia	
Connie Watt: Chemistry & Biochemistry	
Mentor: Seth Pincus, Tami Peters – Chemistry & Biochemistry	Room 3
Development of a Pseudovirus Assay to Measure SARS-CoV-2 Infection of Target Cells in	
Biosafety Level 2 Laboratories	
Maia Zaluski: Mechanical & Industrial Engineering	
Mentor: Corey Pew – Mechanical & Industrial Engineering	Room 4
Stroller Running Testing Apparatus Completion	

### **POSTER SESSION 2 by Last Name**

1:00 - 2:30 pm

Jackson Braggins: Business	
Mentor: Eric Van Steenburg – Business	Room 7
Strategic Marketing Plan for PODS Moving and Storage	
Jenaya Burns: Psychology	
Mentor: Monica Skewes, Julie Gameon – Psychology	Room 8
Associations Between Self-Compassion and Mental Health: A Literature Review	
Athena Carson: Music	
Mentor: Greg Young – Music	Room 6
Performance practice and Polystylism	
Stephen Cory: Political Science	
Mentor: Sara Rushing – Political Science	Room 8
Racial disparities in the Montana correctional system	
Chris Cunningham: Music	
Mentor: Greg Young – Music	Room 5
Insights on Composition	
Eve Dunkel: Music	
Mentor: Greg Young – Music	Room 6
Montana Public School Guitar Program Survey	
Clayton Ehlers: Music	
Mentor: Gregory Young – Music	Room 5
The Influence of Music in Home Environments of Music Majors at MSU	
Olivia Hewston: Music	
Mentor: Gregory Young – Music	Room 6
Covid-19 and its effect on the sense of community in choral ensembles	
Chelsea Hiser: Music	
Mentor: Gregory Young – Music	Room 5
The Double Date A Modern Cowboy Song	
Audrey Hood, Summer Whillock: Psychology	
Mentor: Michelle Meade, Keith Hutchison – Psychology	Room 7
Does Collaboration Help or Hurt Recall? The Answer Depends on Working Memory	NOOM 7
Capacity	
Taylor Hosek: Music	
Mentor: Gregory Young – Music	Room 5
Learning by Doing: Composing a Symphony	
Jackson Hughston: Music	
Mentor: Gregory Young – Music	Room 6
Comparing Outdoor Concert Venues in Bozeman	

Taylor Kampf: Psychology	
Mentor: Neha John-Henderson – Psychology	Room 7
Awe as a Mechanism for Sustaining Subjective Vitality	
Alexis Rose Marion Lamere: Psychology	
Mentor: J. Mitchell Vaterlaus – Health & Human Development	Room 7
"I've met a lot of great people": An Exploratory Study on Young Adult Experiences with	KOOIII 7
Dating Apps	
Kaitlin Lane: Business	
Mentor: Eric Van Steenburg – Business	Room 7
Market Viability for New Product Development	
Zacarias Masiba: Music	
Mentor: Gregory Young – Music	Room 6
Practices of Montana Violin Makers	
Madeline Metcalf: Agricultural Economics & Economics	
Mentor: Sally Moyce – Nursing	Room 8
Virtual Health Education: A COVID-19 Webinar for the Spanish-speaking Community	
Sheridan Pena: English	
Mentor: Marvin Lansverk – English	Room 8
You Make Me Laugh: The Function of Laughter and Smiling in Jane Austen's Novels	
John Schafer: Political Science	
Mentor: Sara Rushing – Political Science	Room 8
Complexity, Nietzsche and the Incompatibility of Modern Autonomy	
Katie Storey: Liberal Studies Degree	
Mentor: Jamie McEvoy – Earth Sciences	Room 8
The Role of Promotional Material in the Racial-Ethnic Park Visitation Gap	
Madison Winter: Psychology	
Mentor: J. Mitchell Vaterlaus – Health & Human Development	Room 7
"I have made a lot of friends through TikTok": An exploratory study of young adult uses	KUUIII /
and gratifications related to TikTok	

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Mentor: Eric Boyd, Daniel Colman – Microbiology & Immunology	Room 3
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Mentor: Recep Avci – Physics	Room 3
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### POSTER SESSION 2 by Room

1:00 - 2:30 pm

Chris Cunningham: Music Mentor: Greg Young – Music Insights on Composition  Clayton Ehlers: Music Mentor: Gregory Young – Music The Influence of Music in Home Environments of Music Majors at MSU  Chelsea Hiser: Music Mentor: Gregory Young – Music The Double Date A Modern Cowboy Song  Taylor Hosek: Music Mentor: Gregory Young – Music Mentor: Gregory Foung – Music Room 9  Athena Carson: Music Mentor: Greg Young – Music Performance practice and Polystylism  Eve Dunkel: Music Mentor: Greg Young – Music Montana Public School Guitar Program Survey  Olivia Hewston: Music Mentor: Gregory Young – Music Mentor: Gregory Young – Music Mentor: Gregory Houng – Music Mentor: Gregory Young – Music Covid-19 and its effect on the sense of community in choral ensembles  Jackson Hughston: Music Mentor: Gregory Young – Music Comparing Outdoor Concert Venues in Bozeman  Zacarias Masiba: Music Mentor: Gregory Young – Music	
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