



Lyman Briggs College  
**RESEARCH SHOWCASE**



**2024 Schedule**

**Feb 15, 2024**



**Virtual Presentations – Available Feb 13<sup>th</sup>**

**Presentations can be found at**

**<https://lymanbriggsstudentshowcase.hcommons.org/>**



Titles are linked to the posting for each.

<b>Title</b>	<b>Authors</b>	<b>Research Foci</b>
<a href="#">Tumorigenic Potential of Per- and Polyfluoroalkyl Substances and Chemoprevention by Natural Compounds</a>	Bailey Delcamp, Brad L Upham, Jamie Liebold	Microbiological Science
<a href="#">The Intersection of Race and Disability in Educational Accommodations</a>	Eryn Greuel, Dr. Nilüfer Akalin	Social Sciences, DEI&B in STEM
<a href="#">Impact of FGF4 on Murine Ectoplacental Cone Outgrowth</a>	Laura Stephan, Soo Hyun Ahn, Geoffrey Grzesiak, Margaret Petroff	Biological Science



**MSUFCU Poster Session – East and West Holmes Hall – 6-7:30PM Thursday Feb 15, 2024**

Presentation and Judging 6-7:25 pm

Awards announced at 7:25(ish) in West Lounge



Title	Authors	Location	Research Foci
<b>Contribution of Mast Cell Proteases to the Resolution of Inflammatory Pain in Mice</b>	Hannah Hua	East(1)	Biological Science
<b>Studies of patient mutations in yeast to gain insight into a childhood neurodegenerative disease</b>	Grace Stys, Li Zhang, Lois Weisman	East(2)	Biological Science
<b>A Multivariate Meta-Analysis for Optimizing Cell Counts When Using the Mechanical Processing of Lipoaspirate for Regenerative Applications</b>	Gershon Zinger, Nia Kepes, Ron Kenett, Amos Pyeser, Racheli Sharon-Gabbay	East(3)	Biological Science
<b>Impacts of Gut Microbiota: a Description of the Study Population</b>	Anushree Ravi	East(4)	Biological Science
<b>Niche Partitioning between dendrobatid poison frogs in five locations of the Bocas del Toro in Panama</b>	Lilja Plumert, Hannah VanSlembrouck, A Proudfoot, Mikayla Sague, Justin Lawrence	East(5)	Biological Science
<b>Exploring Niche Partitioning of Dendrobatidae and Aromobatidae in Boca del toro of Panama</b>	Hannah VanSlembrouck, Lilja Plumert, A Proudfoot, Mikayla Sague, Justin Lawrence	East(6)	Biological Science
<b>BMP10 Activation of SMAD 1/5/8 Signaling Both Induces and Inhibits Pulmonary Arterial Endothelial Cell Proliferation</b>	Nina Aitas, Dr. Kit Yee Chu, Dr. Erik Martinez-Hackert	East(7)	Biological Science
<b>Characterization of Malic Enzyme B Wild Type and ALE Inspired Variants</b>	Elizabeth Courtright, Noor Saber, Bismarck Amaniampong, Karen Draths	East(8)	Biological Science
<b>Neural Differentiation of Endometrial vs Healthy Cell Lines for Endometriosis Detection</b>	Shreshta Sinha, Simon Sanchez, Michael Parnas, Debajit Saha, Erin Vegter, Yong Song	East(9)	Biological Science; Interdisciplinary
<b>Differences in Pubertal Curve Progression among Females with Adolescent Idiopathic Scoliosis Using Pregnenolone Therapy: A Retrospective Case-Controlled Series</b>	Brooke DuRussel	East(10)	Biological Science



<b>The Asian Elephant's Biggest Fear: Tourists</b>	Brooke Seelenbinder	East(11)	Biological Science; Interdisciplinary; Social Science; Communication
<b>Protocol Establishment for Culturing &amp; Identifying Unknown Daphnia-associated Microbes</b>	Anne Lemek	East(12)	Microbiology
<b>Zinc and HapR regulation of vc0515 phosphodiesterase in Vibrio cholerae VSP-II island</b>	Marissa Malleck, Aathmaja Anandhi Rangarajan, Christopher Waters	East(13)	Microbiology
<b>Substrate Engagement by the Intramembrane Metalloprotease SpoIVFB</b>	Hunter, Melanie Orlando, Saikat Mandal, Lee Kroos, Ben Orlando	East(14)	Microbiology
<b>Proximal Human Milk Feeding Practices are associated with 3-month-old Infant Gut Microbiota Diversity</b>	Nikita Nel, Sihan Bu, Jean Kerver, Sarah Comstock	East(15)	Microbiology
<b>Identifying histological biomarkers associated with pediatric concussion</b>	Shaun Subbaiah, Dr. Galit Pelled	East(16)	Microbiology
<b>Effects of critical making on student's perception of teamwork</b>	Jenus Shrestha, Mia Dionise, Shri Keerthi Alla	West(1)	Education
<b>Critical Making as a Tool for Enhanced Problem-Solving Strategies</b>	Chloe Sayre, Darshil Mukesh Desai, Arunima Nimbokar	West(2)	Education
<b>Looking to YouTube for Chemistry Educational Videos? How Students Can Search Smarter.</b>	Leah Zajac, Sophia Gudinas, Ryan Sweeder, Deborah Herrington	West(3)	Education; Communication; Physical Sci/Math
<b>Sense of Belonging in Lyman Briggs</b>	Isaiah Thomas, Faiz Hussain, Jules Shaman	West(4)	Education; DEI&B
<b>Utilizing Student's Cultural Experiences In Physics Assessments</b>	Matthew Gagea	West(5)	Education; DEI&B; Physical Sci/Math
<b>A Spectrum of Physics Teacher Identity Toward Equitable Instruction among Physics Instructors</b>	Clausell Mathis, Maya, Maria Horak	West(6)	DEI&B; Physical Sci/Math
<b>Unlearning indoctrination: Tensions between decolonizing curricula and characteristics of whiteness</b>	Mathilda J Smith, Jackie Dippre, Clausell Mathis	West(7)	DEI&B; Physical Sci/Math
<b>The Development of Alcohol Dependence Among Incident Drinkers: Male and Female Variations</b>	Alexandra Beck, James C. Anthony	West(8)	Communication; Physical Sci/Math



<b>Undergraduate Students' Understanding of Equity in MSU's Residential Colleges</b>	Anum Latif, Christeen Mangalathet, Amaya Aten, Abhinav Anand	West(9)	DEI&B; Social Science
<b>Paws for Thought: Examining the Implications of Underrepresentation in Veterinary Students on the Future of Animal Health Care</b>	Daeun Nam	West(10)	Biological Science; Social Science; DEI&B
<b>Broadening Knowledge of Historical Health Inequities Through Art in Hospital Settings</b>	Quynh Tong, Natalie Seitz, Neha Navathe	West(11)	DEI&B; Interdisciplinary