



### Poster Session 1

10:00 am – 11:30 am

Poster Number	Project Title	Student Presenters	Mentor
1	Presence of African American English in Narrative Language Sample	Amanda Biastock, Katie Ebeling	Megan Mahowald
2	Virtual International Learning: Exploring Healthcare Similarities and Differences	Marisa Sullivan, Linnea Byers-Sunde	Renee Kumpula
3	The Effects of Healthy Lifestyle Choices on Mental Health	Ashley Frick, Emily Goodman	Corey Selland
4	The Effects of Healthy Lifestyle Choices on Mental Health	Emily Goodman, Ashley Frick	Corey Selland
5	Exploring College Student Experiences with Group Work Implemented by Professors	Hailey Lundeen	Andrea Lassiter
6	Exploring how Technology use Influences College Students Sleep	Makayla Ketterling	Joseph Wohkittel
7	Assessing a New Psychology Department Capstone Requirement	Halley Weinberger, Megan O'Connor, Anastasiia Antonova	Emily Stark
8	Effects of the COVID-19 Pandemic on Tenants who Resided in an Assisted Living Facility during the Quarantine	Sydney Schneider	Jeff Buchanan
9	Critical Thinking about Workplace Problems: An Essential Skill for Students	William Kessler, Andrew Mccarty, Haley Lechtenberg, Jayden Kasiska-Pettersen, Emory Landis	Emily Stark
10	Teaching Microaggression to College Students through Stimulus Equivalence Procedure	Sophia Venner	Angelica Aguirre
11	An Evaluation of a Brief Mindfulness and Values Training on Cyber Bullying Behavior in College Students	Ellie Bungum	Angelica Aguirre
12	A Brief Zoom-Facilitated Mindful and Intuitive Eating Intervention to Decrease Disordered Eating	McKay Gray, Seth Nelson	Angelica Aguirre
13	The Influence of COVID-19 on College Students' Anxiety	Lauren Eckert, Peyton Primmer	Emily Stark
14	The Effect of Concussion Information Quality on Youth Athlete and Parent Perceptions and Behavior	Eleanor Fitzwilliams	Adam Steiner
15	Implementation of a high dose rate irradiator for living samples using 400keV electrons.	Samantha Sunnarborg. Preston Finger, David Markiewicz, Jackson Walters	Andrew Roberts
16	How can we make MNSU a greener campus? Current and Future approaches.	John Shrestha	Russell Fricano
17	Car Vs Bus: Should you drive to campus or take a college bus?	John Shrestha	Russell Fricano
18	Filtration Capacity of Sand and GAC for Phosphate Removal	Molly Hill, Harrison Wong,	Nazli Yilmaz-Wodzinski
19	Role of Noise in the Neuronal Ability To Encode and Classify Signals	Mohamed Zakariya	Jorge Mendez
20	COVID-19 and the Impact of Physical Activity on Cognition and Quality of Life in Elderly Adults	Jenna McCarthy	Corey Selland
21	Cost-Effective Strategies for Builders of Zero Energy Ready Homes	Jessica Reese	Jacob Swanson
22	The Effects that Virtual Learning and the COVID-19 Pandemic have had on Nursing Students at Minnesota State University, Mankato	Rachel Rana, Dikshya Thapa, Anita Khatri, Kayla Walsh	Jehad Adwan
23	The Creation of a Montessori Based Activity: A Memory Book	Alexis Fronk, Elizabeth Chua, Julia Swanson, Courtney Warren,	Sheen Chiou
24	Implementation of meaningful engagements for individuals with dementia: Students' Perspectives	Jianna Gellhaus, Julia McCabe, Kaycee Ryan	Sheen Chiou
25	Performative Protest: Can it Counteract the Rhetorical Normalization of Gun Violence?	James Ziegeweid	Katie Brunner
26	Understanding How Notum and Heparanase Promote Glypican-3 Shedding in Hepatocellular Carcinoma.	Emilie Greene, Meaghan Keohane,	Samantha Katner
27	Thermal Energy Storage System Design	Sagar Panth, Htee Moo, Anas Mohamud, Saroj Sapkota	Patrick Tebbe





# MINNESOTA STATE UNIVERSITY, MANKATO

## UNDERGRADUATE RESEARCH CENTER

### Poster Session 2

2:00 pm – 3:30 pm

Poster Number	Project Title	Student Presenters	Mentor
1	Relationship between APOBEC3A and Herpes Simples Virus 1 UL39	Maria Rodriguez Quevedo	Allison Land
2	The Effects of Steroid Hormones on Neurogenesis in the Breeding and Non-Breeding Green Anole Lizard ( <i>Anolis carolinensis</i> )	Brooke Miles, Alex Calli-Wehrman	Rachel Cohen
3	Circadian gene expression across reproductive phases in the green anole lizard ( <i>Anolis carolinensis</i> ) brain	Taylor Grossen	Rachel Cohen
4	Effect of Disinfectants on Biofilm Formation by Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	Hannah Turnipseed	Lois Anderson
5	Combined PI3K Kinase Inhibition and BRD4-targeting PROTAC Degradation Represents a Novel Synergistic Treatment for Lymphoma Patients with a TP53 Mutation	Shelby Lund	Keenan Hartert
6	Soil Carbon Inventory and Aggregate Stability of Conventional Tillage and Orchard with Continuous Living Cover	Mason Sweet	Beth Fisher
7	MYC Proto-Oncogene Inhibition by AZD4573 Targeting Cyclin-Dependent Kinase 9 in Diffuse Large B-cell Lymphoma Cell Lines Represents a Superior Targeted Option to Venetoclax	Kennedee Weber	Keenan Hartert
8	The Impact of Heparanase on the Growth of Hepatocellular Carcinoma	Austen Bayne, Hunter Burgess	Samantha Katner
9	Using genomic DNA of <i>Anolis carolinensis</i> to determine sex in juvenile lizards	Ashley Kraudy, Nadia Lowery	Rachel Cohen
10	Who needs an energy boost? Do differences in energetic requirement to perform a tail-flip jump cause differences in muscle composition?	Makenzie Reed	Michael Minicozzi
11	Soil Bulk Density Methods Comparison	Isaac Cammack	Beth Fisher
12	Inducing Leptin through Lipolysis	Tensae Gonfa	Charles Krois
13	Does the PolyQ Protein FAM171B Localize to Endosomes?	Emily Gregersen, Sheebong Zama-Chi, Jennifer Vetter	Geoffrey Goellner
14	Evaluating soil health in a Minnesota apple orchard: The effects of apple tree rootstock and cultivars	Ann Rogers	Mriganka De
15	Proteoglycan targeting drugs decrease growth of glioblastoma tumors	Rachel VanKeulen	Samantha Katner
16	Pre-methylation of foreign DNA improves conjugation efficiency in the fish pathogen <i>Flavobacterium psychrophilum</i>	Seada Sloboda	Yongtao Zhu
17	Seeing the Effects: Developmental Thyroid Disruption and Photoreceptors	Jessica Wimp, Ainslee Hemmen	David Sharlin
18	Function and Expression of Class I Ribonucleotide Reductases in <i>Flavobacterium johnsoniae</i>	Hunter Doheny	Yongtao Zhu
19	Effects of Sodium Perchlorate Exposure on Testis and Ovary Development in Mice	Kyle Bouten	Michael Minicozzi
20	Functional Investigation of the Type IX Secretion System Regulatory Pathway Components in <i>Flavobacterium johnsoniae</i>	Ireland Manning	Yongtao Zhu
21	Development of Genetic Manipulation Techniques for the Fish Pathogen, <i>Flavobacterium psychrophilum</i>	Ritika Marsani, Carly Beveridge	Yongtao Zhu
22	Evaluating the impacts of microplastics on soil and plant health: A greenhouse pot experiment	Cortiney Galuska, Vincent McKnight,	Christopher Ruhland
23	Inducing Lipolysis through Leptin	Tensae Gonfa	Charles Krois
24	Myosin Oxidation and Effects on Magnesium and Actin Binding	Lelti Asgedom, Muna Awel	Rebecca Moen
25	Effects of retinoic acid on leptin in brown adipose tissue	Yeabsira Dessie, Tsion Sherbeza	Charles Krois
26	Synthesis of Imidazoline and Oxazoline Products Via a Novel Reaction Mechanism	Ramsey Pankratz, Eric Patton	Travis Bethel
27	Repressing APOBEC3 Proteins with Micro RNAs to Reduce Cancer-Causing Mutations	Joshua Vetter	Geoffrey Goellner
28	SIVmac239 Vpx Nuclear Import	Hunter Mayhew	Allison Land
29	Quantitation and Characterization of Bacteria Present in Dental Clinic Water Systems	Liberty Hombe, Tanuja Kafle	Timothy Secott
30	Calmodulinopathies and oxidation affects in cardiac calcium regulation	Eden Gebremariam, Samson Hamza	Rebecca Moen