

Undergraduate
SYMPOSIUM



PROGRAM 2017

Celebrating research, creative endeavor and
service-learning



Undergraduate Symposium 2017

Celebrating Research, Creative Endeavor, and Service-Learning

University of Wisconsin–Madison
Union South
April 13, 2017

9 a.m.–12 p.m.	Poster Set-up—Varsity Hall
9 a.m.–3:30 p.m.	Registration—Varsity Hall Entrance
12–12:25 p.m.	Welcome Remarks and Awards—Varsity Hall

Welcome to Student Participants

Celebrating Undergraduate Education at a Research University

Steven M. Cramer, Vice Provost for Teaching and Learning

Undergraduate Library Research Awards

Raina Bloom, Public Services Librarian
College Library

Undergraduate D2P Commercialization Awards

John Biondi, Director
Discovery to Product

12:30–1:45 p.m.	Session I
2–3:15 p.m.	Session II
3:30–4:45 p.m.	Session III
4:45–6 p.m.	Ideas to Excellence Awards and Reception—Varsity Hall

Refreshments will be available in Varsity Hall during Sessions I–III.

Light hors d'oeuvres will be served during the *Ideas to Excellence* reception.

We would like to thank our major sponsors and partners:

<i>Brittingham Trust</i>	<i>Office of the Provost</i>
<i>Discovery to Product</i>	<i>Undergraduate Academic Awards Office</i>
<i>General Library System</i>	<i>Undergraduate Research Scholars Program</i>
<i>WISCIENCE</i>	<i>University Marketing</i>
<i>McNair Scholars Program</i>	<i>Wisconsin Union</i>
<i>Morgridge Center for Public Service</i>	<i>The Writing Center</i>

2017 Undergraduate Symposium Organizing Committee: Raina Bloom, Steven M. Cramer, Doug DeRosa, Garrett Grainger, Emilie Hofacker, Maya Holtzman, Rebecca Kautz (coordinator), Laurie Mayberry, Amy Sloane, Amber Smith, Julie Stubbs, Beth Tryon

A special thanks goes to Stephanie Diaz de Leon of The Wisconsin Union; Rosemary Bodolay, Patricia Iaccarino, Carrie (Carolyn) Kruse and Pamela O'Donnell at College Library; and Jeff Crucius of the Division of Information Technology



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

 **an ideas**
to Excellence event

Key

Format

AT	Artist Talk
F	Film
PF	Performance
PS	Poster
PR	Project Display
T	Talk

Session Time

I	Session 1: 12:30–1:45 p.m.
II	Session 2: 2–3:15 p.m.
III	Session 3: 3:30–4:45 p.m.

Room

5Q	Fifth Quarter Studio
Ag-A,B	Agriculture-A,B
AL	Alumni
F	Forward
FN	First Nation
GV	Governance
IN-A,B	Industry-A,B
LM-A,B	Landmark-A,B
MT	Marquee Theatre
NW-A,B	Northwoods-A,B
SC	Scholars
SW	Sift & Winnow
TR	Traditions
VH	Varsity Hall
WI	Wisconsin Idea

Index

Last Name, First	Format	Time	Room	#
Badger, Buckingham	PS	III	VH	123

In this example, Bucky Badger will be presenting a poster during Session III from 3:30–4:45 p.m. in Varsity Hall. The poster number is 123.

Project Display

Session 1: 12:30–1:45 p.m.

VARSITY HALL

Title	Presenters and Mentors
Robin's Sensory Board	Siddhant Jain, Eric Arndt, Benton Denlinger Drumm, Daisy Garcia, Sara Jorgensen, Jacob Lindsley, Alex Rosenflanz, Thomas Thelen, Mitchell Tyler (Mentor)
Expired Breath 13C-Delta Value as an Indicator of Metabolic Status in Performance Training	Jordyn Laufenberg, David Eide (Mentor)

Session 2: 2–3:15 p.m.

VARSITY HALL

Folic Acid: Its Implication in Alleviating Spinal Cord Injury-induced Neuropathic Pain	Alexandra Radzin, Gurwattan Miranpuri (Mentor)
--	--

Performance and Film Shorts

Session 1: 12:30–1:45 p.m.

VARSITY HALL STAGE

Title	Presenters and Mentors
The Science of Fascia Meets the Art of Dance Making	Molly Hodgson, Kimi McKissic, Jessica Roblin, Julianna Hom, Andrea Harris (Mentor)

Session 3: 3:30–4:45 p.m.

MARQUEE THEATER

Title	Presenters and Mentors
Clothed and Terrified	Talia Gray, Eric Hoyt (Mentor)
Everything You Always Wanted to Know About Stalin (But Were Afraid to Ask)	Yuka Shiotani, Charles Buza, Christina Gregis, Noah D. Johnson, Will Maher, Allison Martin, Katie Tompson, Francine Hirsch (Mentor)

Artist Talks

Session 2: 2–3:15 p.m.

MARQUEE THEATER

Title	Presenters and Mentors
Like Shouting in a Snowstorm	Steven Kaplan-Pistiner, Lisa Galnick (Mentor)
Exercises in Artistic Expression	Karen Singer, Elaine Scheer (Mentor)
Tell My Story with Art	Xiaojing (Monica) Fan, Rebecca Kautz (Mentor)
Muhammad Ali's Influence on Hip Hop & Spoken Word and Sexism in American Culture & These Traditions	Mackenzie Berry, Sara McKinnon (Mentor)
5 X 5 Font	Jacelyn Poventud, Helen Lee (Mentor)

Talks

Session 1: 12:30–1:45 p.m.

AGRICULTURE A

Title	Presenters and Mentors
Using Velocity Anisotropy to Analyze Turbulence in Giant Molecular Clouds	Alecio Madrid, Audra Hernandez (Mentor)

Analysis of the Contraction of the Northern Hemisphere, Lower-Tropospheric, Wintertime Cold Pool

Kirsten Mayer, Jonathan Martin (Mentor)

Lucrative or Lunatic: Assessing Tesla's Utility-Scale Battery Systems via Bidding Framework

Jose Renteria, Mahad Siad, Alex Dowling (Mentor)

The Maragha School: Its Role in the History of Astronomy

Ruojun Wang, Michael Shank (Mentor)

Virtual Driving Environments for Driverless Vehicle Interactions

Bennett Yeo, David Noyce (Mentor)

ALUMNI

Title	Presenters and Mentors
-------	------------------------

Can Cognates Trigger Code-Switching?

McKenzie Klein, Margarita Kaushanskaya (Mentor)

Examining Debriefing in Trauma Resuscitation Simulations

Alyson Underwood, Sarah Sullivan (Mentor)

Conditioning of Sustained Attentional States through Associative Learning

Payden White, C. Shawn Green (Mentor)

Evaluating the Quality of School Policies that Shape Nutrition and Physical Activity for Wisconsin Children

Emma Wiessner, Avery Cotter, Kellyn Engstrom, Laura Gregor, Erin Skalitzky, Lindsay Weymouth (Mentor)

Analyzing Informal Caregiving: A Workload Perspective

Rachel Zenker, Nicole Werner (Mentor)

INDUSTRY A

Title	Presenters and Mentors
-------	------------------------

Basking in the Sun: The Thermoregulation of Alpine Parnassian Butterflies

Christian Eken, Sean Schoville (Mentor)

Investigating the Effects of General Anesthetics on Outcomes of Traumatic Brain Injury in *Drosophila*

Julie Fischer, David Wassarman (Mentor)

Unlocking the Pre-Pubertal Hyperandrogenemia/Obesity Relationship in Polycystic Ovary Syndrome

Sylvia Frazier, David Abbott (Mentor)

Phosphorus Patterns in the Yahara Lakes

Paul Gabriel, Jessica Corman (Mentor)

Characterization of Budding Yeast DNA Replication Origins That Use the BAH Domain

Austin Gluth, Catherine Fox (Mentor)

INDUSTRY B

Title	Presenters and Mentors
-------	------------------------

Discrete Curves and Their Invariants on the Conformal Sphere

Evan Fernandez, Stephanie Shi, Jaden Umana, Gloria Mari-Beffa (Mentor)

Stellar Evolution of the NGC 602 Region in the Low-Density Wing of the Small Magellanic Cloud

Leah Fulmer, John Gallagher (Mentor)

Growth during Brain Regeneration in Adult *Drosophila Melanogaster*

Cayla Guerra, Grace Boekhoff-Falk (Mentor)

Fecundity and Development of Halyomorpha Halys on Host Plant *Verbascum Thapsus*.

Kate Handberg, Benjamin Jaffe (Mentor)

Mass Spectrometry-Focused Method Development and Application for Crustacean Neuropeptide Analysis

Kylie Helfenbein, Amanda Buchberger (Mentor)

LANDMARK A

Title	Presenters and Mentors
-------	------------------------

Rootedness: The Role of Land Rights in the Political Development of El Salvador, 1969–Present

Gillian McBride, Erica Simmons (Mentor)

Themes within African-American Men's School Experiences

Oona-Ifé Olaiya, Janean Dilworth-Bart (Mentor)

Story Maps as a Tool to Promote Deep Travel of Maritime Heritage of a Great Lakes Coastal Community

Edgar Reyes, David Hart (Mentor)

Lessons Learned from Scenic Easements along the St. Croix National Scenic Riverway

Colleen Schmit, Adena Rissman (Mentor)

LANDMARK B

Title	Presenters and Mentors
-------	------------------------

Generation of GnRH Neurons from Human Stem Cells

Lucille Kohlenberg, Ei Terasawa-Grilley (Mentor)

Detecting the Initial Signs of Puberty in Male Rhesus Macaques

William Lundeen, Ei Terasawa-Grilley (Mentor)

The Effect of Sport Specialization on Jump Landing Mechanics

Madeline Miller, David Bell (Mentor)

Antibody Response in Humans with Rheumatoid Arthritis Associated Variants of PADI4

Chloe Peyton, Miriam Shelef (Mentor)

A Novel High-Throughput Method to Quantify NETosis in Fluorescent Microscope Images

Ryan Rebernick, Miriam Shelef (Mentor)

SIFT & WINNOW

Title	Presenters and Mentors
-------	------------------------

How Social Categories Affect Infants' Trust and Preferences

Meredith Braza, Kristin Shutts (Mentor)

Examining Variables that Lead to Increased Episodes of Colds and Flu in Children

Lily Comp, Mary Checovich (Mentor)

Function of Kir7.1 Protein with a Near Cognate Codon Insertion

Sara Counter, Bikash Pattnaik (Mentor)

Pharmaceutical Mixture Toxicity to *Arabidopsis thaliana*

Madison Czerwinski, Joel Pedersen (Mentor)

TRADITIONS

Title	Presenters and Mentors
-------	------------------------

Applied Psychological Science: A Model Evidence-Based Metric to Assess Primate Cognitive Enrichment

Mackenzie Dutton, Allyson Bennett (Mentor)

Scientific Salvation: Mystical Experience and the American Psychology of Religion, 1880–1930

Samuel Gee, Corrie Norman (Mentor)

How Gaining or Losing Money Affects Deception and Money Allocation

Emma Jarda, Lyn Van Swol (Mentor)

A Study in Yellow: The Transformation of Turmeric from Spice to Superfood

Meghna Kurup, Claire Wendland (Mentor)

Can Learning that Bias Is Cumulative Help White People Be More Receptive to Black People's Concerns?

Oliver Lees, Patricia Devine (Mentor)

WISCONSIN IDEA

Title	Presenters and Mentors
-------	------------------------

Management Recommendations for Large Felids in Mexico Based on Techniques Applied Around the World

Valerie Knurr, Kristina Kennedy, Rachel Larson, James Berkelman (Mentor)

Effects of Co-Infection with *Mycobacterium Tuberculosis* on SIV Diversity and Escape

Jaffna Mathiaparanam, Shelby O'Connor (Mentor)

Regiospecificity of Galactan Polymerization by Divergent Gift2 Orthologs

Patric Sadecki, Laura Kiessling (Mentor)

Thermal Tolerance Levels of Grylloblattidae

Kelly Thao, Sean Schoville (Mentor)

Session 2: 2–3:15 p.m.

AGRICULTURE A

Title	Presenters and Mentors
Stories of the Housekeepers: An Inquiry of Occupational Gender Segregation	Constance Chang, Leann Tigges (Mentor)
Child Behavior Problems & Enjoyment of Time Together among Sibling Dyads in Autism Spectrum Disorder	Kimberly Drastal, Sigan Hartley (Mentor)
Benefits of Having a Sibling with Autism	Cynthia Gauthier, Sigan Hartley (Mentor)
In Search of Balance: A Comparison of Neo-Patrimonial Regimes in Ethnically Fragmented Societies	Jason Geissler, Scott Straus (Mentor)
Mealtime Strategies for Children with Autism Spectrum Disorders: Observed and Reported Behaviors	Shannon Kant, Jessica Muesbeck, Karla Ausderau (Mentor)

ALUMNI

Title	Presenters and Mentors
Microscale Model to Understand the Role of Fallopian Tube Epithelial Cells in Ovarian Cancer	Veronica Porubsky, Pam Kreeger (Mentor)
Quantifying the Dynamics of Virus Infections in Microchannels	Jason Wan, John Yin (Mentor)
Cholecystokinin Treatment Promotes Pancreatic Beta-Cell Survival In Human Islet Transplants	Lucille Anzia, Dawn Davis (Mentor)
The Effect of Supernutritional Selenium on Selenoprotein Gene Expression and Protein Activity	Victor Bourget, Rachel Taylor (Mentor)
Assessing Cognitive Load in Individuals with Single-Sided Deafness with a Cochlear Implant	Emily Burg, Ruth Litovsky (Mentor)

INDUSTRY A

Title	Presenters and Mentors
Confirming Antibiotic Induced Bacterial Knockdown Using qPCR in Leaf-Cutter Ant Fungus Gardens	Zachary Dumar, Cameron Currie (Mentor)
Pancreatic Islet Fibrosis in PCOS-Like Monkeys: Biomarker For Metabolic Disease?	Erica Engstrand, David Abbott (Mentor)
Conservation of Hummingbird Habitat and Diversity	Daniel Erickson, Scout Kirby, Nicole Perrett, James Berkelman (Mentor)
Inhibiting the Inflammasome to Improve <i>Listeria</i> Monocytogenes as a Cancer Immunotherapeutic Platform	Emily Forster, Jd Sauer (Mentor)
Verticillium Wilt Studies in Potato: Thermal Imaging and Disease Detection	Caroline Hanson, Arun Kumar (Mentor)

INDUSTRY B

Title	Presenters and Mentors
Differential Analysis of Fast Growing and Slow Growing Aspen Genotypes	Jacob Hutner, Jennifer Riehl (Mentor)
Early Changes in Gene Expression in Airway Epithelial Cells Following Human Rhinovirus Infection	Alyssa Joachim, James Gern (Mentor)
River and Coastal Ecosystem Management in Mexico	Analise Lindborg, Nevan Baus, Melissa Nelson, James Berkelman (Mentor)

Mutants of Ubs1 in Yeast and Their Functionality Compared to the Wild Type
Stefani Lucarelli, Allison Didychuk (Mentor)

Overcoming Cetuximab Resistance by Targeting HER Family of Receptor Tyrosine Kinases with Pan-HER
Rachel Orbuch, Deric Wheeler (Mentor)

LANDMARK A

Title	Presenters and Mentors
Effective Diffusivity of an Elliptical Active Brownian Particle	Ye He, Wai-Tong Fan (Mentor)
Rethinking Severe Wildfire: Pyrodiversity in the Western U.S.	Nicole Pietruni, Gavin Jones (Mentor)
Changing the Rules: How Recent U.S. Law Regulates Greenhouse Gases	Erika Pritchett, Richard Keyser (Mentor)
Cold-in-Place Recycling: Quantifying the Environmental Benefits in Wisconsin	Morgan Sanger, Renee Olley, Angela Pakes Ahlman (Mentor)
The Baraboo Breccia Zone: A New Approach to an Old Question	Luke Schranz, John Valley (Mentor)

LANDMARK B

Title	Presenters and Mentors
The Influence of Family Income on Students' College Major Preferences in Brazil	Joao Pedro Magalhaes Souto Maior, Chris Taber (Mentor)
Exploring the Best Way to Communicate Utility Value for First-Generation College Students	Cory Washington, Judith Harackiewicz (Mentor)
Exploring Children's Sensitivity to Non-Symbolic Ratios	Sai Xiong, Percival Matthews (Mentor)
Text-Mining NIH Grant Critiques: Can Machine Learning Algorithms Detect Reviewer Bias?	Anupama Bhattacharya, Molly Carnes (Mentor)

NORTHWOODS B

Title	Presenters and Mentors
Testing for the Presence of Local Adaptation in Populations of <i>Drosophila Melanogaster</i> for Olfactory	Vedika Ramesh, John Pool (Mentor)
Cholecystokinin Receptor Subtype Distribution Profile in Min6 and INS1E Cell Lines	Steven Sacotte, Dawn Davis (Mentor)
Targeting Fibronectin as Anti-Fibrosis Therapy for Kidney Disease	Inger Toraason, Bianca Tomasini-Johansson (Mentor)
Neuropathological Changes Induced by Closed-Head Traumatic Brain Injury	Icelle Anderson, Craig Atwood (Mentor)

SIFT & WINNOW

Title	Presenters and Mentors
Perovskite Stability	Luke Burlingame, Fuad Ahmed, Daniel Alborta, Dane Morgan (Mentor)
Random Walk Approximations for Diffusions on Star Trees	Yijie Wang, Shuqi Yu, Wai-Tong Fan (Mentor)
Wisconsin Miniature Swine as a Model for Human Spine and Development of Therapeutic Delivery	Aleksandar Wood, Seah Buttar, Ravinderjit Singh, Patricia Stan, Gurwattan Miranpuri (Mentor)
Kinetic Study of Kharash-Sosnovsky Allylic Oxidation of Olefins	Jingyi Zhao, Scott McCann (Mentor)

Continued on next page

Talks *continued*

Session 3: 3:30–4:45 p.m.

AGRICULTURE A

Title	Presenters and Mentors
An Integrative Approach to Understanding the Disjunct Biogeography of <i>Aconitum Columbianum</i>	Christopher Setzke, Chloe Drummond (Mentor)
Role of ROMK2 as the Putative Pore of Mitochondrial ATP-Sensitive Potassium Channels	Rutvi Shah, Jonathan Makielski (Mentor)
Peptidylarginine Deiminase 2 Is Not Required for the Formation of Neutrophil Extracellular Traps	Daemun Shim, Miriam Shelef (Mentor)
Alcohol's Effects on Psychophysiological Responses to Unpredictable and Uncontrollable Stressors	Jack Shireman, John Curtin (Mentor)
Beetles as a Model for Species Colonization in Glaciated Environments	Troy Valle, Sean Schoville (Mentor)

ALUMNI

Title	Presenters and Mentors
Evolution of a Novel Gene Expression Pattern in <i>Drosophila</i> Species	Jer Weann Ang, David Loehlin (Mentor)
Effects of an Early Stop Lyn Mutation on Neutrophil Migration and Inflammation	Julia Chini, Anna Huttenlocher (Mentor)
Leopards and Lions: Mesopredator Behavior Changes after Reintroduction of the Apex Predator	Rachel Conway, Drew Bantlin, Jacob Olson, Adrian Treves (Mentor)
MGAT2 Deficiency Alters Bile Acid Metabolism in Mice	Jackson Moran, Eric Yen (Mentor)
Otter Devastation? The Case for Conservation of <i>Lontra Longicaudis</i> in Mexico	Leanza Rakowski, James Berkelman (Mentor)

INDUSTRY A

Title	Presenters and Mentors
Network Analysis of Political Donor Polarization in Wisconsin Gubernatorial and Legislative Races	Ross Dahlke, Michael Wagner (Mentor)
A Sociological Interpretation of Place Based Poverty: Goshen County, Wyoming	Joshua Gutzmann, Leann Tigges (Mentor)
The Diagnostic Significance of Confessions in Shaken Baby Syndrome	Hanjoo Lee, Keith Findley (Mentor)
Putting Quality into Qualitative Questions	Austin Matsche, Christian Schmieder (Mentor)
CAMP Bayview: College/Career Advancement Mentorship Program at the Bayview Foundation	Tong Michelle, Oona-lfe Olaiya, Yang Xiong (Mentor)

INDUSTRY B

Title	Presenters and Mentors
<i>Drosophila</i> Model to Investigate the Long-Term Effects of Blunt Trauma Inflicted Early in Development	Jorgo Lika, David Wassarman (Mentor)
Evidence-based Cognitive Enrichment for Monkeys: Videogames vs Foraging Puzzles	Brooke Meidam, Allyson Bennett (Mentor)
Characterization of Plant-Type Tyrosine Biosynthetic Enzymes from Bacteria	Yusen Men, Hiroshi Maeda (Mentor)
Comparing Environmental Education and Community-Based Conservation Strategies in Madison and Autlán	Holly Howe, Angela Ingrassia, Riley Lenocho, James Berkelman (Mentor)
Colonization by Symbiotic Fungi Differs According to Water Availability	Nguyen Nguyen, Michelle Pearson (Mentor)

LANDMARK A

Title	Presenters and Mentors
Beyond Walls, Electrified Fences, and Time: The Music of Gideon Klein in the Holocaust	Devorah Fisher, Teryl Dobbs (Mentor)
Historical Trauma and the Roots of Antisemitism	Heidi Weston, Rachel Brenner (Mentor)
Cultural Genocide of the Jewish People	Timothy Fitzpatrick, Teryl Dobbs (Mentor)
My 21st Century Encounter with the Holocaust	Justin Ruder, Rachel Brenner (Mentor)
T4 Program	Maya Strauss, Rachel Brenner (Mentor)
How World War II and the Holocaust Affected U.S. Immigration and Refugee Policy	Sydney Widell, Teryl Dobbs (Mentor)

LANDMARK B

Title	Presenters and Mentors
Determining the Role of the F-BAR Protein CIP4 in Cortical Neuronal Migration	Brandon Huynh, Erik Dent (Mentor)
The Importance of Autophagy in the Time of Onset of Anal Squamous Cell Carcinoma	Annie Jen, Louise Meske, Evie Carchman (Mentor)
Deletion of Phosphate Transporters Up-Regulated during Poplar-Mychorrhizal Symbioses by CRISPR/Cas9	Jack Kwan, Kevin Cope (Mentor)
Chronotropic Response and Cognitive Function in a Cohort at Risk for Alzheimer's Disease	Lena Law, Ozioma Okonkwo (Mentor)
Stochastic Spatial Model for Resistance Evolution for Bt Crops	Kai Li, Craig Knuth, Karen Perez Hoyos, Wai-Tong Fan (Mentor)

NORTHWOODS B

Title	Presenters and Mentors
X-Ray Quantum Calorimeter Filter Transmission Measurements	Rachel Gruenke, Dan McCammon (Mentor)
Computational Study on the Effect of AC Gate Voltages on Si/SiGe Quantum Devices	Noah Johnson, Mark Eriksson (Mentor)
The Search for Astrophysical Tau Neutrinos in IceCube	Piper Lincoln, Shikhar Mittal, Donglian Xu (Mentor)
Characterizing Nanoparticle Association with Bacterial Cell-Wall Interfaces by Solid State NMR	James O'Rourke, Emily Caudill (Mentor)
Detecting Cosmic-Ray Particles with Smartphones: The Distributed Electronic Cosmic-Ray Observatory	Cassidy Schneider, Justin Vandenbroucke (Mentor)

SIFT & WINNOW

Title	Presenters and Mentors
Eugenè Ysaÿe the Composer: An Investigation of His Unpublished Manuscripts	Elliot Stalter, Charles Dill (Mentor)
Selling Nothing: Marketing the Myths, Methods, and Movements of Minimalist Celebrities	Page Bazan, Corrie Norman (Mentor)
A Case Study of Coalition Efforts to Promote Healthy Food and Activity Environments for Children	Ryan Berg, Amy Hilgendorf (Mentor)
Spanish for the Ages: Second-Language Acquisition Across the Period of Critical Development	Rachel Fader, Rajiv Rao (Mentor)
The Complex Combatant: Constructions of Victimhood and Perpetratorhood in Northern Uganda	Kyra Fox, Scott Straus (Mentor)

TRADITIONS

Title	Presenters and Mentors
Cleaning the Stream: A Wisconsin Union Recycling Initiative	Samuel Marquardt, Rhianna Miles, Caroline Mitchell, Bret Shaw (Mentor)
Intermediate Wheatgrass and Silphium as Perennial Dual-Use Crops	Zainah Masri, Kim Asseily, Emily Rau, Valentin Picasso Risso (Mentor)
Equitable Fitness for Seniors; The StrongWomen Program and Insurance Reimbursement in Wisconsin	Gina Nerone, Courtney Saxler (Mentor)
Food for Fit Families: Weight Management for Families with Children with Developmental Disabilities	Sara Twadell, Karla Ausderau, Patricia Novak, Karla Ausderau (Mentor)

WISCONSIN IDEA

Title	Presenters and Mentors
The Influence of 20th Century Consumerism on Modern Postural Yoga in America	Samantha Minor, Gudrun Buhnemann (Mentor)
The Revolutionary Writings and Friendship of Shi Pingmei, Lu Jingqing, and Lu Yin	Alison Sharpless, Rania Huntington (Mentor)
Measuring Organizational Growth Through Survey Research	Marisel White, Amy Hilgendorf (Mentor)
Gender Inequality in Parental Leave Policies	Pazee Xiong, Leann Tigges (Mentor)

Lightning Style Talks

Session 1: 12:30–1:45 p.m.

NORTHWOODS A

Title	Presenters and Mentors
Utilizing Extremely High-Frequency Radio Waves for Future Wireless Technology	Omar Alqahtani, Akbar Sayeed (Mentor)
“ <i>Qué tiene?</i> ” Experiences of Mental Illness and Perspectives from Providers, Patients, and Caregivers in Mexico	Noe Arriaga, Jonathan Godinez, Isabel Miranda, Alyssa Ramirez Stege (Mentor)
Perceptions of Academic and Career Planning	Natalie Baccam, Robin Worth (Mentor)
The Impact of Background Television’s Formal Features on Children’s Attention	Megan Baryenbruch, Katherine Karabon, Renae Rompre, Xinyi Wang, Heather Kirkorian (Mentor)
Using Stem Cell Based Models to Examine Inflammatory Signaling in the Blood Brain Barrier	Olivia Bee, Eric Shusta (Mentor)
Understanding factors that Impact the Acceleration/Deceleration of a Gasoline vs. Hybrid Vehicles	Nikita Bhatt, Sue Ahn (Mentor)
Neural Stem Cell Gene Identification Using CRISPR CAS9 Based Screening System	Michael Bray, Darcie Moore (Mentor)
Local Public Health Department Funding: An Updated Look at Trends & Relationship to Health Outcomes	Matthew Brelie, Theresa Watts, Susan Zahner (Mentor)
Development of Nanoparticle Based Artificial Antibodies for the Detection of Troponin-I	Cyrus Colah, Ying Ge (Mentor)

NORTHWOODS B

Title	Presenters and Mentors
The Glass Medium	Joshua Fernandez, Helen Lee (Mentor)
Sphagnum Palustre: A Moss Bogging Down its Competition in Kohala, Hawaii, Island	Bridget Gilmore, Kevin Barrett (Mentor)
Exploring Freshmen and their Social Adjustments to College	Josh Hang, B. Brown (Mentor)
Analyzing the Isolation Precaution Habits of Health Care Professionals in Madison	Camilo Hernandez, Nasia Safdar (Mentor)
The Proposed Increase of REM Sleep and Decrease in Seizures in Silibinin Treated Mice	Alexis Hernandez Abrego, Kara Vogel (Mentor)
Dietary Preen Oil Improves Growth and Survival in Larval Fathead Minnows	Brady Hirshfeld, Caroline Barry, Terence Barry (Mentor)
Tagging Vimentin at the Genomic Level for Modeling in Mice and in Vitro	Kailee Kujawski, Darcie Moore (Mentor)
The Influence of Lean Mass Asymmetry on Jump Landing Force Asymmetry	Hana Lee, David Bell (Mentor)
Implications of Prescription Drug Misuse during Midlife for Individual and Relationship Health	Molly Malone, Lane Steinhaus, Lauren Papp (Mentor)

FIFTH QUARTER STUDIO

Title	Presenters and Mentors
Challenging Senior Stigma: Gaining Perspective From the Unseen Majority	Matthew McKeever, Sarah Bauer, Claire Burke, Brooke Eliason, Ellie Miller, Lucas Perkl, Dominique Perry, Salma Salama, Tararinsey Seng, Laura Skornia, Rachel Sobiesk, Bridget Sperry, Abbey Vadnais, Brianna Young, Yvette Egan (Mentor)
Effects of Listserv Communication on Farmer’s Market Communities	Michael Mussar, Alfonso Morales (Mentor)
The Functional Consequences of Mandible Shape Evolution in Giant House Mice from Gough Island	Jacob Nelson, Bret Payseur (Mentor)
Investigating Analogs of Eflornithine, an Irreversible Inhibitor of Ornithine Decarboxylase	Luke Oxtoby, Jennifer Schomaker (Mentor)
Emerging Adults’ Use of Supplemental Activities for Depression Treatment	Grace Padgett, Natalie Wietfeldt (Mentor)
3D Printing for the Manufacturing Industry	Sam Peters, Thomas Mulholland (Mentor)
Evaluating the Roles of Antibacterial Nylon-3 Polymer Properties Against <i>Clostridium difficile</i>	Casey Ritts, Leslie Rank (Mentor)
Examining the Effects of Resource Quality on Reproductive Success of an Invasive Beetle Species	Will Sandvold, Claudio Gratton (Mentor)
Metabolic Remodeling during Biofilm Development of <i>Bacillus subtilis</i>	Sophia Schmidt, Kevin Still, Zizi Pisithkul (Mentor)

Session 2: 2–3:15 p.m.

FIFTH QUARTER STUDIO

Title	Presenters and Mentors
Youth Participatory Action Research as a Tool for School Change	Josue Velazquez, Taucia Gonzalez (Mentor)
Transcription within the Research of Immigrant Families: Literacy and Identity	Sodie Yang, Catherine Lilly (Mentor)
The Correlation of Emotional Recovery Physiology and Work to Family Conflict	Daniela Beltran Hernandez, Stacey Schaefer (Mentor)
The Future of 4-Year-Old Kindergarten in MMSD	Samantha Chase, Kelly Giuliano, Noor Hammad, Eric Grodsky (Mentor)

Continued on next page

Shoring Up Autocracy: Participatory Technologies and Regime Support in Putin's Russia Thomas DeGuire, Dylan Solomon, Hannah Chapman (Mentor)
Exploring Identity Negotiation Through Literary Practices in Children of Immigrant Families Jadid Hernandez, Sareyah Ahmed, Adeana Bentley, Catherine Lilly (Mentor)
Confirmation of Toll-Like Receptor 1 (TLR1) H305L SNP Genotypes in Wisconsin Preterm infants Caitlin Hoffman, Wenxiang Luo (Mentor)

NORTHWOODS A

Title	Presenters and Mentors
Preferential Interactions of Sugars with Nucleobases and Aromatics Emilio Jacobo, M. Thomas Record (Mentor)	
Thinking About Data Victoria Jay, Martha Alibali (Mentor)	
Breaking Down Barriers: Assistance to the UW Odyssey Project MaKayla Liebeck, Emily Auerbach (Mentor)	
Graphic Novels Miranda Salazar, Jim Escalante (Mentor)	
Role of Autophagy in Cetuximab Resistance in Head and Neck Cancers Justin Skiba, Randy Kimple (Mentor)	
Condensed Tannin Composition Varies within the Aspen Species <i>Populus Tremuloides</i> Phia Yang, Kennedy Rubert-Nason (Mentor)	

Session 3: 3:30–4:45 p.m.

FIFTH QUARTER STUDIO

Title	Presenters and Mentors
Terminology in Patient-Facing Medical Mobile Applications Abdul Rahim Altit, Mikayla Buford, Catherine Smith (Mentor)	
Search for Gamma-Ray Bubbles Around M31 with HAWC Ariana Blair, Joshua Wood (Mentor)	
Emerging Adults' Use of Alternative Approaches for Treating Depression Yanze Dominguez, Nancy Pandhi (Mentor)	
Automation Breeds Consistency—a Step Towards More Reliable and Valid Spike Sorting Algorithms Chris Endemann, Matthew Banks (Mentor)	
Regulation of Asymmetrically Segregated Cargoes in Mitotic Neural Stem Cells Jieun Heo, Darcie Moore (Mentor)	
Organizational Investment in Human Capital Jacob Horwitz, Bukky Akinsanmi (Mentor)	
Structural Mechanisms Underlying Ethanol's Actions Sritejasvithi Karimikonda, Cynthia Czajkowski (Mentor)	
Analysis of Defects in Crystalline Silicon–Germanium Nanomembranes Maja Lazarevic, Max Lagally (Mentor)	
Interaction of Euro-American Settlement, Vegetation Patterns, and Soils in the Northern Minnesota Mengyu Liang, Joseph Mason (Mentor)	

NORTHWOODS A

Title	Presenters and Mentors
Development of a Quantitative Relaxometry Template in the Infant Brain Megan Lucas, Andrew Alexander (Mentor)	
Progressive Muslims through Discourse: A Linguistic Ethnography Maria Fernanda Martinez Rodriguez, Katrina Thompson (Mentor)	
Vestibular and Visual Contributions to Motion Sickness Michelle McGuire, Cynthia Fowler (Mentor)	
Literacy and Identity Eloisa Negrete Garcia, Catherine Lilly (Mentor)	
The Effects of Framing on Deception Peter Reinke, Lyn Van Swol (Mentor)	

Sedentary Awareness: Descriptive Epidemiology and Effects on Wellbeing Jaylene Thompson, Jacob Meyer (Mentor)
Phylogenetic Inference Using Importance Sampling Jordan Vonderwell, Bret Larget (Mentor)
A Survey of Two Spectacular High Velocity Clouds in the Milky Way Skylyn Worzalla, Snezana Stanimirovic (Mentor)
Optimization of the Gp2 Mini-Protein Scaffold Boyu Yin, Geoffrey Eddinger (Mentor)

Posters

Session 1: 12:30–1:45 p.m.

PS#	Title	Presenters and Mentors
1	Temperature Preference and Activity of Cold-Specialized Insects Glenda Valdez, Rachel Slatyer (Mentor)	
4	Social, Physical, and Psychological Outcomes of the African American PALS Program Cheyenne Mangan, Kimberlee Gretebeck (Mentor)	
7	Obstacles Underrepresented People in the IT Industry Encounter Megan Grove, Dorothea Salo (Mentor)	
10	Particle Size Analysis of Milwaukee Soils Jared Stieve, Carolyn Voter (Mentor)	
13	The Parental Experience of their Child's New Diagnosis: A Systematic Review of the Literature Samantha Tarnoff, Audrey Tluczek (Mentor)	
16	Development of a Concussion Module for eSchoolCare, an Online Resource for School Nurses Samantha Greuel, Lori Anderson (Mentor)	
19	Role of SPG3A in Neural Maintenance Jennifer Bird, Anjon Audhya (Mentor)	
22	The Effect of Beta-Catenin Loss on <i>Irx3</i> and <i>Irx5</i> Expression in Oocytes of the Postnatal Ovary Ann Turcotte, Megan Hornung (Mentor)	
25	Shifts in Wintertime Processes and Induced Changes to Soil Microbial Biomass Carbon and Aggregation Madalyn Lupinek, Edward Boswell (Mentor)	
28	Errorless Versus Errorful Learning in Adult Word Learning Jessica Handler, Kayla Hui, Alexandra Peterson, Haley Vlach (Mentor)	
31	Modelling X-Ray Emission of Galactic Winds Teague Tomesh, Ellen Zweibel (Mentor)	
34	Corticotropin-Releasing Factor (CRF) Neurons in the Prefrontal Cortex Modulate Working Memory Rebecca Green, Sofiya Hupalo (Mentor)	
37	Relating Antemortem Biomarkers with Postmortem Alzheimer Disease Pathology Colleen Mellert, Shahriar Salamat (Mentor)	
40	Variation in Stream Sediment Grain Size and Organic Matter May Influence Stream Nutrient Retention Natalie Schmer, Julia Hart (Mentor)	
43	Anti-Bias Toolkit for Increasing Early Childhood Inclusion and Equity Breana Collins, Larissa Duncan (Mentor)	
46	Preschool-Aged Children's Categorization of Feature Space between Categories Dorie Ross, Paige Sprague, Haley Vlach (Mentor)	
49	Infant Neural and Emotional Development: Relations with Maternal Sensitivity to Distress Kristin Dowe, Hill Goldsmith (Mentor)	
52	Experiments for Quantifying Local Displacements in Soft Materials Nathaniel Corey, Jacob Notbohm (Mentor)	
55	Identification of Dormant Tumor Cells through Metabolic Imaging Brenna Bomkamp, Suzanne Ponik (Mentor)	
58	The Impact of Temperature and Salinity on Seed Germination in Different Varieties of Alfalfa Alayna Hoesly, Emma Nelson, Johanne Brunet (Mentor)	
61	Ancient Lewis Holes: The Achievement of Greek Architecture Rachel Berglund, William Aylward (Mentor)	

PS#	TITLE	Presenters and Mentors
64	Synthesis of Model Heme-Thiolate Ligand Precursors with Variable Intramolecular Hydrogen Bonding	Michael Milbauer, Luc De La Villefromoy, Matthew Dent (Mentor)
67	Analysis of Long-Term Water Quality Data in Four Coastal Ecuadorian Watersheds	Amelia Rossa, Joshua Kalman, Caden Lambie, Catherine Woodward (Mentor)
70	Utilizing Generation of Oncogenic Mutations to Better Understand CRISPR-Cas9 Off-Target Effects	Meng Lou, Jared Carlson-Stevermer (Mentor)
73	Minocycline Enhances Mesenchymal Stem Cells Antibacterial Abilities Against <i>Escherichia Coli</i>	Charlie Childs, Peiman Hematti (Mentor)
76	Concept to Product: Custom Games from Epistemic Games Group	Jonathan Erbe, Spencer Linse, Austin Meyer, Brendan Eagan (Mentor)
79	What Maintains Color Pattern Variation within the <i>Parnassius Clodius</i> Butterfly?	Mryia Hubert, Sean Schoville (Mentor)
82	Characterizing Heterotrophic Organisms Growing in Coculture in Autotrophic Conditions	Janavi Kotamarthi, Natalie Cook (Mentor)
85	SQUAMOSA-Promoter Binding Proteins Function as Positive Regulators of Stress-Induced Cell Death	Nicholas Sorensen, Mehdi Kabbage (Mentor)
88	Genetic Mutations and Follicular Fluid Stimulation Lead to Progression of Early-Stage Ovarian Cancer	Will Flanigan, Andy Fleszar (Mentor)
91	Mechanical Energy from Tidal Waves to Chemical Energy for Deep Subsurface Microbes	Thompson Bliss, Huifang Xu (Mentor)
94	Third-Party Rating Systems	Emma Lucas, Kevin Chung (Mentor)
97	Nutlin-3 Rescues Neurogenic and Cognitive Deficits in a Mouse Model of Fragile X Syndrome	Michael Stockton, Xinyu Zhao (Mentor)
100	Probing the Thermodynamic Stability of the Ribosome via Fluorescence Spectroscopy	Aniruddha Srivastava, Silvia Cavagnero (Mentor)
103	Preliminary Assessment of Genetic Diversity in Wild Cranberries	Sarah Fierek, Lorraine Rodriguez-Bonilla (Mentor)
106	Early Stranger Fear as a Predictor of Adolescent Anxiety and Social Functioning	Katrina Radi, Hill Goldsmith (Mentor)
109	Madison, Wisconsin: A Liberal Haven?	Mackenzie Carroll, Sarah Moore (Mentor)
112	Curation of the Archaeological and Modern Snails at the UW-Madison Zoological Museum	Kelly Martin, Laura Monahan (Mentor)
115	Towards Establishing the Danio Lineage as an Inter-Species Nuclear-Egg Compatibility Model	Destiny Baars, Francisco Pelegri (Mentor)
118	Regional Human Astrocytes Exhibit Differential Molecular Signatures and Functional Properties	Jack Shireman, Su-Chun Zhang (Mentor)
121	Electrostatic Contributions of Aromatic Residues in Protein-Carbohydrate Interactions	Stephen Early, Laura Kiessling (Mentor)
122	PRISE: Promoting Research, Innovation, Science, and Engineering	Stephen Early, Megan McClean (Mentor)
124	Functional Support Antecedents to Dysphagia among Nursing Home Residents with Dementia	Jordan Madden, Andrea Gilmore Bykovskiy (Mentor)
127	Evidence Based Interventions for Suspensions of Black and Brown Students in K-12 Institutions	Chetachukwu Agwoeme, Aydin Bal (Mentor)

PS#	TITLE	Presenters and Mentors
130	Effects of Cognitive Enrichment and Other Environmental Factors on Hair Cortisol in Rhesus Macaques	Gabby Douglas, Allyson Bennett (Mentor)
133	Attaching eGFP to Vinculin through a Two-Step PCR DNA Cloning	Michael Brodhead, Joseph Szulczewski (Mentor)
136	A Search for Gas Accretion Signatures in Galaxies with SDSS IV/MaNGA	Keith Celeste, Christy Tremonti (Mentor)
139	The Importance of Hand Hygiene in Preventing Infection	Evan Juntunen
142	Exploring the Impact of Capstone Course "How Kids and Birds can Save the Planet"	Mackenzie Hess, Anke Keuser (Mentor)
145	Role of AF9 in the Reprogramming of Mouse Embryonic Fibroblasts	Cesar Martinez, Rupa Sridharan (Mentor)
148	Perception of Emotion Expression in Clinical Populations	Andrew Langbehn, Paula Niedenthal (Mentor)
151	Exploring Allosteric Principles of Transcriptional Repressor RoIR	Hannah Lou, Megan Leander (Mentor)
154	Biochemical Studies of Sub2 Designed to be Sensitive to Chemical Analog Inhibition	Jack McCann, Sarah Hansen (Mentor)
157	Microstructural Changes in Zirconium Alloys Due to LOCA and the Chromium Cold-Spray Coating Process	Calvin Parkin, Kyle Blomstrand, Ryan Carroll, Jason Kuhn, Adrien Couet (Mentor)
160	Investigating the Role of Gift2 in Mycobacterial Cell Wall Assembly	Lili Kim, Laura Kiessling (Mentor)
163	Physiological Stress in Mother-Child Dyads with Autism Spectrum Disorder during Mealtime	Jessica Muesbeck, Shannon Kant, Karla Ausderau (Mentor)
167	Probability of Reducibility of Random Polynomials as the Degree Increases	Claire Brekken, Melanie Wood (Mentor)
170	Genetic Resistance or Susceptibility in Novel Rat Strains and Implications of Traumatic Brain Injury	Haley Nemeth, Thomas Sutula (Mentor)
173	Developing a Protocol to Coat Tissue-Culture Plates with Decellularized Human Pancreatic Hydrogel	Austin Feeney, Sara Sackett (Mentor)
176	Correlating Visual Evoked Potential and Optic Nerve Axon Count in Glaucoma	Jacob Lindemann, Gillian Mclellan (Mentor)
179	Parents' Perception of the Quality of Life of Their Infant with Complex Congenital Heart Disease	Chloe Choice, Karen Pridham (Mentor)
182	Furan Fatty Acid Synthesis by <i>Rhodospseudomonas palustris</i>	Priya Shah, Rachelle Lemke (Mentor)
185	Ming Dynasty Plague Gods and Demons	Catherine Peterson, Rania Huntington (Mentor)
188	From Notes to Words: Information Transfer between Music and Speech in Infant Learning	Allison Hare, Jenny Saffran (Mentor)
191	Words Like Leaves: An Introduction to Classical Japanese Poetry and Its Relevance Today	Olivia Kostreva, Charo D'etcheverry (Mentor)
194	Assembly of a Confocal Microscope for Single-Molecule FRET Studies on Nascent Protein Folding	Tess Carlson, Silvia Cavagnero (Mentor)
197	Reaction Dynamics of Atmospheric Nitrogen Oxide Removal by the Sea-Surface Microlayer	Melvin Matthew, Gilbert Nathanson (Mentor)
200	Identifying Yeast Species From Biological Samples	Ritika Punathil, Quinn Langdon (Mentor)

Continued on next page

Posters *continued*

PS#	TITLE	Presenters and Mentors
203	Measuring Soil Aggregate Stability Using New Techniques	Krista Marshall, Leah Johnson, Krista Marshall, Edward Boswell (Mentor)
206	Using Artificial Transcription Factors to Induce Differentiation into Cardiomyocytes	Evan Heiderscheit, Asuka Eguchi (Mentor)
209	Impact of Metabolism on Toxicity of Carbamazepine In Plants	Rebecca Hoehn, Joel Pedersen (Mentor)
212	Eyewitness Identification Across the Country	Hailey Kertscher, Lucie Butner (Mentor)
215	Exploring Computational Tools in Phylogenomic Analyses of the <i>Grylloblattodea</i> Tree of Life	Zachary Beethem, Sean Schoville (Mentor)
217	Electrochemical Studies of Hydrogen Ions in Molten FLiBe (LiF-Bef2)	Liu Leo, Francesco Carotti (Mentor)
218	Public Education in Scientific Animal Research Through Community Outreach	Jon-Luc Cayabyab, Madilyn Williams, Allyson Bennett (Mentor)
219	Application of Hydroxyapatite Acid/base Catalysts in Aldol Condensation Reactions	Faisal Bin Salem, Juan Venegas (Mentor)
221	History of Potato Production and Colorado Potato Beetle Outbreaks in the United States (1850–1935)	Benjamin Havlicek, Michael Crossley (Mentor)
224	Education and Recidivism in Incarcerated Parents with Young Children	Shannon O'Neill, Gretchen Aibel, Julie Poehlmann-Tynan (Mentor)
226	Mesenchymal Stem Cells Derived Exosomes Educated Macrophages to Treat Graft vs. Host Disease	Sabrina Kabakov, Christian Capitini (Mentor)
228	Optimizing the Differentiation and Transplantation of Pluripotent Stem Cell Derived Beta Cells	Andrew Curran, Aida Rodriguez-brotons, Sara Sackett, Daniel Tremmel, Sara Sackett (Mentor)
229	BeneFIT: What Moves You	Tiffany Ike, Sara Mckinnon (Mentor)
230	Factors Contributing to Invertebrate Diversity in Lake Mendota Streams	Nora Beckemeyer, Julia Hart (Mentor)
232	Synthesis of Polymeric Antigens to Stimulate Cross Presentation via Cathepsin S-Mediated Pathway	Angie Jasper, Laura Kiessling (Mentor)
234	Study of Estrogen's Effect Towards PAR1 Expression	Sang Yoon Lee, Will Ricke (Mentor)
236	Improving Allogeneic Bone Marrow Transplant for Osteosarcoma Using Immunocytokine	Keven Stonewall, Christian Capitini (Mentor)
238	Neuronal Reactivation in the CA3 Hippocampal Region in Memory Formation Due to Pattern Completion	Marissa Korte, Lauren Peretz, Peter Lipton (Mentor)
240	Do Hmong Elders Understand Yes/No Survey Questions?	Aylee Yang, Maichou Lor (Mentor)
242	Family Drawings and Attachment in Young Children with Jailed Parents	Nicole Johnson, Luke Muentner, Julie Poehlmann-Tynan (Mentor)
244	Structural and Biochemical Characterization of the U6 Biogenesis Protein Usb1	Andrew DeLaitch, Samuel Butcher (Mentor)
246	Angular Dependence of Ocean Infrared Emissivity Derived from Marine-AERI Observations	Matthew Westphall, Jonathan Gero (Mentor)
248	Effects of Caloric Restriction on Glycemic Regulation in Rhesus Monkeys	Maddie Kruk, Joseph Kemnitz (Mentor)
250	Effects of the YjeP Channel on Indolicidin's Permeabilization Activity on <i>E. coli</i>	Sam Rider, Zhilin Yang (Mentor)
252	The Cow Project: Transforming Ugandan Agricultural Practices	Jacquelyn Laitsch, Helena Record, James Ntambi (Mentor)

PS#	TITLE	Presenters and Mentors
254	Selection of Radiosensitizers Based on HRAS Mutation in Head and Neck Cancer	Michael Fisher, Randy Kimple (Mentor)
256	Filament Formation on dsDNA Mediates E38K RecA's Enhanced Activity in the Absence of DNA Damage	Matthew Ritger, Michael Cox (Mentor)
258	Creating an In-Vitro Model of the Aortic Valve	Christine Kujawa, Kristyn Masters (Mentor)
260	Optimizing mRNA Untranslated Regions for Improved RNA-Mediated Astrocyte Reprogramming to Neurons	Jennifer Umhoefer, William Murphy (Mentor)
262	Characterizing Unwrapping in Transcription Initiation by FRET and Single-Round Transcription Assays	Clare Cimperman, M. Thomas Record (Mentor)
264	Folate-Induced Functional and Electromyographic Recovery of Sciatic Nerve Injury	Kyle Zielinski, Albert Hu, Bermans Iskandar (Mentor)
266	The Role of TCF19, a Novel Diabetes Gene, in Protection from Beta-Cell Apoptosis	Gurkaranjot Singh, Jee Young Han (Mentor)
268	Neuronal Reactivation in the CA3 Hippocampal Region in Memory Formation Due to Pattern Completion	Lauren Peretz, Marissa Korte, Peter Lipton (Mentor)
270	Large Local Void, Supernovae Type Ia, and the Kinematic SZ Effect in a Lambda-LTB Model	Benjamin Hoscheit, Amy Barger (Mentor)
272	Investigating Planetary Boundary Layer Depth Retrieval from Multiple Instruments	Kip Nielsen, Ankur Desai (Mentor)
274	Bicaudal-C RNA Binding Protein: A Proteolytic Analysis	Thomas Geissler, Michael Sheets (Mentor)
276	Learning, Representations, and Technology	Jessica Hsu, Martina Rau (Mentor)
278	Trajectories of Support Activities of Informal Lung Cancer Caregivers	Allison Woldt, Kristin Litzelman (Mentor)
280	Effects of Heat on Soil Aggregate Stability in the Presence of <i>Amyntas</i> Earthworms	Jenelle Wempner, Marie Johnston (Mentor)
282	Paramedic-Delivered Care Transitions Coaching for Older Adults Discharged Home from the ED	Nia Cayenne, Manish Shah (Mentor)
284	The Effect of Adipocytes on Apoptosis Resistance in Ovarian Cancer Cells	Rachel Acevedo, Pam Kreeger (Mentor)
286	Estrogen Treatment Prevents Pulmonary Vascular Remodeling in a Rat Model of PAH	Rohan Patnaik, Naomi Chesler (Mentor)

Session 2: 2–3:15 p.m.

PS#	Title	Presenters and Mentors
2	How the Splicing Factors Cus2 and Prp5 Influence Global Splicing Efficiency in Yeast	Arthur Clark, Aaron Hoskins (Mentor)
5	Characterization of Salmonella Survival in Bedding Sand and Ability to Infect Bovine Macrophages	Hannah Pilch, Charles Czuprynski (Mentor)
8	Effect of Pre-Existing Spatial Reasoning Skills on Students' Ability to Understand Molecular Chemistry Concepts	Jainaba Corr, Martina Rau (Mentor)
11	Interplay of Self-Assembled Defect Cores and Dynamics of Annihilation of Topological Defects	Bo Zhang, Nicholas Abbott (Mentor)
14	The Role of Timing in Children's Science Learning: Simultaneous, Spaced, and Massed Presentations	Hannah Georgeson, Melissa Rosenfeld, Haley Vlach (Mentor)
17	NPU Stressor Task: Evaluating a Surrogate Endpoint for Stress Mechanisms in Substance Use Disorders	Jansen Legreid, John Curtin (Mentor)

PS#	TITLE	Presenters and Mentors
20	Long-Term Effects of Differing Nitrogen Regimes on Northern Red Oak (<i>Quercus rubra</i>) Growth	Riley Aschenbrenner, Nicholas Balster (Mentor)
23	MBD1 Regulates Neuronal Lineage Commitment through Maintaining Adult Neural Stem Cell Identity	Charles Giuliani, Xinyu Zhao (Mentor)
26	Long-Term Quality of Life For Gastroparesis Patients	Sarah Marowski, Anne Lidor (Mentor)
29	Generation of CHD8 knockout Human iPSCs Using CRISPR/Cas9 System	Jason Kim, Qian Bu (Mentor)
32	Impact of Health Promoting Activities in Adults with Intellectual Disabilities	Rachel Usdin, Katelyn Dorrance, Selin Gok, Nilvio Alexander Punguil Bravo, Karla Ausderau (Mentor)
35	Inflammation and Depression in Advanced Cancer Patients with a Symptom Cluster	Sarah Loring, Kristine Kwekkeboom (Mentor)
38	Regional Corpus Callosum Volume and Handedness in Macaques (<i>Macaca Mulatta</i>)	Madeline Friedman, Allyson Bennett (Mentor)
41	Characterization of Protease-Activated Receptor-3 (PAR3) in Prostate Cancer	Sunwoo Bae, Will Ricke (Mentor)
44	Unearthing the Secrets of the Universe: Simulating Neutron Calibrations for the MiniCLEAN Detector	Nathan Eggen, Kimberly Palladino (Mentor)
47	How Parental Stress Influences Parenting Behaviors Among Young Children with and without ADHD	Alexandra Reynolds, James Li (Mentor)
50	Targeting Tumor-Associated Macrophages via Microscale Models of the Prostate Tumor Microenvironment	Vikram Suresh, David Kosoff (Mentor)
53	Homeostatic Mechanisms of Hormone Transport in the Tobacco Hornworm (<i>Manduca sexta</i>)	Sloane Bratton, Walter Goodman (Mentor)
56	Parameters Underlying Excitability of Pyramidal Neurons in B32R43Q Mice displaying Absence Epilepsy	Carson Mahant, Mathew Jones (Mentor)
59	Influence of Social Information on Children's Statistical Learning	Cassandra Windau, Seth Pollak (Mentor)
62	Do Phthalates Alter Steroidogenesis in Prostate Cells?	Chongzhi Sun, Will Ricke (Mentor)
65	Kinetic Survey of hINMT Polymorphisms Associated with Disease	James Tyler, Arnold Ruoho (Mentor)
68	Microbiota and Cognitive Differences between Breast-Fed and Formula-Fed Infants: Preliminary Insights	Alysha Rameshk, Andrew Alexander (Mentor)
71	Identification of <i>Staphylococcus Aureus</i> Biofilm Inhibitors from Marine Sponges	Samuel French, Skylar Carlson (Mentor)
74	Investigating Phenotypic Differences among Fibrobacter Isolates from Various Herbivores	Caroline McCormick, Garret Suen (Mentor)
77	Character Weighted Levenshtein Distance: A New Metric	Catherine McSorley, Nils Hjortnaes, Ryan O'Connor, Joe Salmons (Mentor)
80	Role of Microtubule Acetylation in Sensory Dendrite Development	Helena Record, Jill Wildonger (Mentor)
83	PEGylated Ultra Small Mesoporous Silica Nanoparticles and the Accelerated Blood Clearance Phenomenon	Cerise Siamof, Weibo Cai (Mentor)
86	Study Expectancy Results Correlated with Protocol Compliance	Lily Comp, Mary Checovich (Mentor)
89	Bridging the YAP between Mechanical Properties and Differentiation in Human Pluripotent Stem Cells	Josh Bensen, Yefim Zaltsman (Mentor)

PS#	TITLE	Presenters and Mentors
92	The Trigger Loop of RNA Polymerase Is a Positional Catalyst of Transcription and Proofreading	Michael Palo, Tatiana Mishanina (Mentor)
95	How do Children with Fragile X Syndrome Express Emotional Language?	Kellie Willis, Audra Sterling (Mentor)
98	The Lawn and Winding Road: Characterizing Tyrosine Biosynthetic Enzymes of the Grass Sorghum Bicolor	Matthew Schneider, Hiroshi Maeda (Mentor)
101	Single Molecule Investigation of Spliceosome Fidelity-Altering Mutations in Yeast Prp5	David Beier, Aaron Hoskins (Mentor)
104	Assessing the Consequences of Exposure to Touch-Screen Devices in Young Children	Elizabeth Hoff, Jenny Saffran (Mentor)
107	Relationships between Opioid Gene Expression and Affiliative Communication in European Starlings	Ryan Fuglestad, Lauren Riters (Mentor)
110	CRISPR/ Cas9 Mediated Knockout of Host RNAi Defense Allows For Study of Flock House Virus Protein B2	Kailey Slavik
113	Military Unit Support and Combat Experiences during Deployment: Associations with PTSD Symptoms	Michele Hiserodt, Maleeha Abbas, Kasey Kallio, Megan Schultz, Kathryn Thomas, Mary Wyman (Mentor)
116	<i>E. coli</i> Contamination of Three Drinking Water Sources Following Natural Disaster in Rural Ecuador	Joshua Kalman, Caden Lambie, Amelia Rossa, Catherine Woodward (Mentor)
119	Biochemical Investigation into Novel Activities of Yeast SPOUT-Superfamily RNA Methyltransferases	Hannah Mast, Aaron Hoskins (Mentor)
125	Effect of Age and Calorie Restriction on Voluntary Movement during Adulthood of Rhesus Monkeys	Lindsey Waite, Joseph Kemnitz (Mentor)
128	Determining the Regenerability and Transformability of <i>Brachypodium Distachyon</i> Genotypes	Chiara Sanders, Jean-michel Ane (Mentor)
131	Do Monolingual and Bilingual Children Differ in Their View of Language when Categorizing?	Kailey Durkin, Margarita Kaushanskaya (Mentor)
134	Early Adolescence Social Media Initiation Issues in Relation to Peer Engagement	Kyra Gravelle, Ashley Prudhom, Cole Schenck, Victoria Shear, B. Brown (Mentor)
137	The Small Radio Telescope that Could: the Milky Way Radial Velocity Diagram at 21cm	Celeste Keith, Christopher Anderson, Doreen Beeler, Emily Brewer, Nathan Eggen, Nathaniel Hilliard, Celeste Keith, Sean Kelley, David Nestingen-palm, Nikki Noughani, Matthew Thornton, Bo Yang, Snezana Stanimirovic (Mentor)
140	Predicting Damping of a Cantilever Beam with a Bolted Joint Using Quasi-Static Modal Analysis	Emily Jewell, Matt Allen (Mentor)
143	Multilocus Approach to Species-Tree Reconstruction with Recombination	Zonglin Han, Calvin Kosmatka, Sebastien Roch (Mentor)
146	Legislative Barriers to Equal Education: Addressing Non-Standard English in Educational Policy	Chayce Cornette, Andrew Turner (Mentor)
149	Incarcerated Parents of Young Children: Type of Parental Crime and Children's Behavior Problems	Kaitlyn Pritzl, Ashley Peterson, Julie Poehlmann-Tynan (Mentor)

Continued on next page

Posters *continued*

PS#	TITLE	Presenters and Mentors
152	Is Normal Really Normal? The Examination of the Collagen ECM as a Biomarker for Future Breast Cancer	Ryan Gigstad, Patricia Keely (Mentor)
155	Characterization of GnRH Neurons Derived from Stem Cells: Pulsatile Hormone Release	Courtney Johnston, Ei Terasawa-Grilley (Mentor)
158	A Case Study of Coalition Efforts to Promote Healthy Food and Activity Environments for Children	Samantha Meyer, Amy Hilgendorf (Mentor)
161	Investigation of Angiogenic Mechanisms Involved in Omentum Transplantation	William Xiang, Wade Bushman (Mentor)
165	Heat Transfer in a Basal Synapsid with a Soft Tissue Sail Formed by Hypertrophied Neural Spines	Aaron Kufner, David Lovelace (Mentor)
168	Study of the Influence of Band Bending on Photoelectrochemical Activity of Diamond	Claudia Yan, Robert Hamers (Mentor)
171	Impact of Asian Jumping Worms (<i>Amyntas</i>) on Soil Aggregate Size	Karly Remondino, Marie Johnston (Mentor)
173	Optimization of Genome Sequencing in Low Viral Loads of SIV Using a Tiled Amplicon Approach	Nicolas Fesser, Shelby Oconnor (Mentor)
177	Non-Steroidal Anti-Inflammatory Drug Use Does Not Affect In Vivo Neutrophil Extracellular Traps	Lauren Fahmy, Miriam Shelef (Mentor)
180	Effects of Sampling Rate on Speech Waveform Acoustic Measurements	Madison Wagner, Hourri Vorperian (Mentor)
183	The Use of Distributed Cognition for PHIM in the Home	Tom Martell, Anna Jolliff, Nicole Werner (Mentor)
186	Neutral Lipid Metabolism in <i>B. Dermatitidis</i> Influences Temperature-Dependent Morphologic Development	Isabelle Cooperstein, Gregory Gauthier (Mentor)
189	The Transformation of <i>Brachypodium Distachyon</i>	Kenneth Jackson, Ray Collier (Mentor)
192	PHIM-Typing: Individual Differences in Personal Health Information Management (PHIM) in the Home	Michelle Tong, Nicole Werner (Mentor)
195	Interacting Particles and Partial Differential Equations	Yian Chen, Wai-tong Fan (Mentor)
198	Pyruvate Carboxylase Controls Habituation Learning	Laura Johnson, Marc Wolman (Mentor)
201	Where Is Notch Signaling Activated in Germline Stem Cells?	Sindhuja Battula, Sarah Crittenden (Mentor)
204	Are Difficult Videogames Cognitively Enriching or Anxiety-Provoking for Rhesus Macaques?	Kelsey Christianson, Allyson Bennett (Mentor)
207	Effects of Maternal Psychopathology on Development of Infant Anxious Temperament	Bailey Immel, Hill Goldsmith (Mentor)
210	Cranberry (<i>Vaccinium Macrocarpon</i>) as a Likely Host of Brown Marmorated Stink Bug (<i>Halyomorpha Halys</i>)	Makaila Wallin, Benjamin Jaffe (Mentor)
213	Genome Sequence Analysis of <i>Yamadazyma Laniorum</i> f.a. sp. nov., a New D-Xylose Assimilating Yeast	Max Haase, Chris Hittinger (Mentor)
216	Creation of Transcription Factor Reporter Lines in Human Induced Pluripotent Stem Cells	Evan Cory, Krishanu Saha (Mentor)
288	<i>Porphyromonas gingivalis</i> Mediated Disruption of Autophagy and Atherosclerosis	Chloe Nickel, Leticia Reyes (Mentor)
290	The Relationship between Pollen Identity and Quantity of Two Social Bee Pollinators	Cecilia Grinis, Danny Minahan (Mentor)

PS#	TITLE	Presenters and Mentors
296	Beetle Digitization	Emmanuel Ankomah, Daniel Young (Mentor)
298	Effects of Telmisartan on Ocular Perfusion Pressure	Colton Wickland, Gillian McLellan (Mentor)

Session 3: 3:30–4:45 p.m.

PS#	Title	Presenters and Mentors
3	Spinal Cord Stimulator for Neuropathic Pain Due to Multiple Sclerosis	Omar Tarawneh, Alaa Abd-Elseyed (Mentor)
6	Max-Autoregressive Moving Average Model: a New Method to Do Prediction	Zhang Chi, Wai-Tong Fan (Mentor)
9	Effect of <i>Candida Glabrata</i> on Neutrophil's Function	Amanda Hoyer, Jeniel Nett (Mentor)
12	Validation that Voluntary Wheel Running Paradigm Increases the Rate of Neurogenesis	Annie Novak, Xinyu Zhao (Mentor)
15	The Relationship between Bullying and Internalizing Behavior Problems in Children with ASD	Katie Phillips, Sigán Hartley (Mentor)
18	Mother's Use of Metalanguage in Relation to Child's Verbal Knowledge	Olivia Cook, Janean Dilworth-Bart (Mentor)
21	The Association between Professional Support and Parenting Stress in Parents of Children with ASD	Haley Johnson, Sigán Hartley (Mentor)
24	UpTica—Empowering Women Through Upcycling in Rural Costa Rica	Maria Castillo, Robert Beattie (Mentor)
27	What Modifications are Required in the T4aP Disassembly Protein to Allow it to Assemble Pili?	Paula Atsaves, Katrina Forest (Mentor)
30	Understanding Why the U.S. Supreme Court Sides with the Executive Branch in Administrative Law	Daniel Nesslein, Mikayla Sandin, Devin Judge-Lord (Mentor)
33	Textiles + TechStyles: Code, Entrepreneurship, and Design for Elementary Schoolgirls	Rita Roloff, Shirin Malekpour (Mentor)
36	Using Genetically Modified hiPSCs to Investigate Blue and Red/Green Cone Specification	Zachary Erlichman, Elizabeth Capowski (Mentor)
39	Concussion Injury by Age and Sex in United States Youth Soccer: A National Snapshot	Cali Sanborn, Traci Snedden (Mentor)
42	<i>Porphyromonas Gingivalis</i> Strain Dependent Effects on Periodontal Disease and Pregnancy Complications	Gonzalo Perez, Jr., Leticia Reyes (Mentor)
45	Pancreatic Islet Morphology Associates with Type 2 Diabetes Mellitus (T2DM) in PCOS Monkey Model	Erica Engstrand, Valerie Aguilar, Colleen Krueger, David Abbott (Mentor)
48	Incidence of Graft-Versus-Host Reactivity Following Hematopoietic Stem Cell Transplantation	Elaine Dandan, Dana Baiu, Mario Otto, Nicole Philipps, Dana Baiu (Mentor)
51	Behind the Bars: The Relationship between Correction Officers and Inmates	Kaitlin Dinkel, Melanie Murchison (Mentor)
54	Food Insecurity in Madison, Wisconsin: Using Community Outreach for a Healthier Food Pantry	Mallory Swenson, Jennifer Gaddis (Mentor)
57	Cooperation of the Microbiota and Oncogenic Mutations Leading to the Development of Colon Cancer	Dana Van De Hey, Dustin Deming (Mentor)
60	The Role of Enhancer of Zeste Homolog 2 (EZH2) on the Breakdown of the Blood-Brain-Barrier	Genesis Rodriguez, Avtar Roopra (Mentor)

PS#	TITLE	Presenters and Mentors
63	Effects of Racial Stress on the Workplace Functioning of Black Adults	Noah Weatherton, Natalie Kustner, Elisa Torres, Linda Oakley (Mentor)
66	Incarcerated Parents of Young Children: Racial Disparities in Mental Health	Zoe Milavetz, Lexi Frerks, Delaney Haese, Julie Poehlmann-Tynan (Mentor)
69	Correlations of Age and Gender in the Human Infant Gut Microbiome	Janna Swearingen, Andrew Alexander (Mentor)
72	Early Life Stress Moderates Links between Associative Learning and Peer Attachment in Adolescents	Rachel Filipiak, Seth Pollak (Mentor)
75	Inhibition of MEK/ERK and Akt/mTOR Pathways in Head and Neck Cancer	Aastha Pandey, Randy Kimple (Mentor)
78	Girls Gymnastics Injuries in United States High Schools 2008 to 2012: A National Summary	Hannah Ellis, Traci Snedden (Mentor)
81	A Search for Mosquitoes: Using Collaborative Ovitraping to Survey Wisconsin for Vectors of Disease	Thomas Richards, Susan Paskewitz (Mentor)
84	Synthesis of Layered Double Hydroxide Nanomaterials for Oxygen Evolution Electrocatalysis	Richard Costello, Lianna Dang (Mentor)
87	Bayesian Phylogenetic Analysis of Alpine Beetle Species <i>Nebria</i>	Kalene Jasso, Sean Schoville (Mentor)
90	MeCP2 Promotes GABA Circuit Development to Regulate Sensorimotor Gating	Cole Gilsdorf, Marc Wolman (Mentor)
93	Stearoyl-CoA desaturase 2 and C/EBP α Positively Regulate Each Other during Adipogenesis	Eva Shelton, James Ntambi (Mentor)
96	Wisconsin High School Teachers: Knowledge of Concussion and Academic Effects	Zoe Ridgeway, Traci Snedden (Mentor)
99	Clinical Isolates of <i>Candida albicans</i> Impair Neutrophil Extracellular Trap (NET) Release	Hamayail Ansari, Jeniel Nett (Mentor)
102	Memory's Influence on Cross-Situational Word Learning in Children	Chloe Santiago, Hailey Scandin, Haley Vlach (Mentor)
105	Characterization of a Novel Pathway that Regulates Exocytosis	Jessica Smoko, Sarah Neuman (Mentor)
108	Comparison of Stress Levels in Pre-Nursing and Nursing Students and the Relation to Burnout	Nicholas Sablich, Alexandra Jensen, Linsey Steege (Mentor)
111	Measuring the Interaction of Solutes with Protein Surface Types using Vapor Pressure Osmometry	Taylor Bye, M. Thomas Record (Mentor)
114	Bim Expression Affects Retinal Astrocytes Adhesion and Migration through Production of ECM Proteins	Katherine Schleck, Christine Sorenson (Mentor)
117	Measuring Connectivity with Epistemic Network Analysis	Cayley Farrell, Cheyenne Quandt-Walle, Erik Role, Brendan Eagan (Mentor)
120	Environmental and Historical Controls on <i>Fagus grandifolia</i> Settlement-Era Distributions	Megan Seeley, Jack Williams (Mentor)
123	The Effect of Dietary Macronutrients on Serum C-Reactive Protein in the NHANES Sample	Natalie Galles, Christopher Coe (Mentor)
126	Recurrent Neural Networks on IBM TrueNorth for Optical Flow	Erik Jorgensen, Mikko Lipasti (Mentor)
129	Investigating Engraftment of Regionally Patterned Motor Neuron Progenitors	Akshitha Sreeram, Randolph Ashton (Mentor)
132	CRISPR/Cas9 Activation of OTX2 Reporter Gene	Trevor Zarecki, Krishanu Saha (Mentor)

PS#	TITLE	Presenters and Mentors
135	Analysis of Biomimetic Vasculature in Dynamic Microenvironments Using Confocal Microscopy.	Peyton Uhl, William Daly (Mentor)
138	Fragile X Related Protein 1 (FXR1P) Regulates Proliferation of Adult Neural Stem Cells	Sydney Malone, Xinyu Zhao (Mentor)
141	Computational Model of a High Contrast Imaging Modality for Retinal Vasculature Observation	Melanie Loppnow, Jeremy Rogers (Mentor)
144	Myeloid Cell Recruitment to the Brain Following Stroke Is Due to VEGF Signaling	Anders Lindstedt, Matyas Sandor (Mentor)
147	Social Identity and Taking up Space: Confidence in Black Adults when Communicating with Clinicians	Natalie Kustner, Elisa Torres, Noah Weatherton, Linda Oakley (Mentor)
150	Developmental and Psychosocial Functioning at 24 months in Children of Mothers with PPD	Mallory Kopp, Nicole Johnson, Thomas Pearson-Green, Roseanne Clark (Mentor)
153	Time Evolution of Galactic Winds	Cory Cotter, Ellen Zweibel (Mentor)
156	Association of Arbuscular Mycorrhizal Fungi with Carrots	Ian McIntire, Alyssa Joachim, Michelle Pearson (Mentor)
159	The Effects of Soil Moisture on Portable X-Ray Fluorescence and Visible Near-Infrared Spectroscopy	Sean Fischer, Alfred Hartemink (Mentor)
162	Assessment of Ovitrap Survey for Zika Vectors in Wisconsin in 2016	Sydney Potts, Susan Paskewitz (Mentor)
166	Postural Stability Measures in a Pilot Trial of Tai Chi for ADHD	Kenneth Fiala, Grace Herbeck, Alexander Converse (Mentor)
169	Energy Dissipation in Cartilage and the Subchondral Bone	Liam Moreland, Corinne Henak (Mentor)
172	Educandonos: Breast Cancer Education for Hispanics/Latinos	Eva Shelton, Andrea Nino De Guzman Ramirez, Patricia Tellez-Giron (Mentor)
174	Possible IL-1B2 Processing via MMP Cleavage Pathway	Madeline Haedt, Nizar Jarjour (Mentor)
175	Soil Organic Matter Content in Prairie vs. Agricultural Soils	Bryce Lackey, Edward Boswell (Mentor)
178	Unraveling the Function of the TCH2 Interactome	Touyeng Xiong, Richard Barker (Mentor)
181	Effects from Arginine and Lysine on Stability in Coiled Coil and Beta Hairpin Systems	Alexander Passow, Naomi Biok (Mentor)
184	Analyzing the Immune System Reconstitution Following Hematopoietic Stem Cell Transplantation	Nicole Philipps, Dana Baiu, Elaine Dandan, Mario Otto, Dana Baiu (Mentor)
187	The Role of Chondroitin Sulfate Proteoglycans in Recovery after Focal Cerebral Infraction	Claire-Marie Canda, Lindsey Jager (Mentor)
190	The Effects of Chondroitin Sulfate Proteoglycans on the Survival of Neural Stem Cells in Vitro	Morgan Suhre, Lindsey Jager (Mentor)
193	Effect of Methylation Cycle Agonists on the Regeneration of Injured Spinal Axons in Vitro	Susan Luo, Bermans Iskandar (Mentor)
196	Protein Misfolding and Aggregation Analysis of Disease-Linked Mutations in the LMNA Ig-Like Domain	Timothy Routes, Corey Anderson (Mentor)
199	Validation of the Lifetime Total Physical Activity Questionnaire Self-Report and Intensities	Carley Richards, Sarah Clapp, Elisa Torres (Mentor)

PS#	TITLE	Presenters and Mentors
202	Efficacy of Commercial RNA Extraction Kits with Canine Blood	Dahlia Tesfamichael, Michael Wood (Mentor)
205	Stochastic Spatial Models for virus-DIP Interactions	Zhanpeng Zeng, Wai-Tong Fan (Mentor)
208	The Heterogeneity of Hofbauer Cells	Arielle Mora Hurtado, Leticia Reyes (Mentor)
211	Word Learning Across Media	Kylie Markeland, Lexie Deignan, Mary Pulvermacher, Kaelyn Schreiner, Heather Kirkorian (Mentor)
214	Investigating the Molecular Mechanisms of <i>C. Elegans</i> Germline Stem Cell Fate Regulators	Jon Doenier, Judith Kimble (Mentor)
220	RhoR	Bradley Rogers, Rebecca Pozen, Melanie Rogers, Brendan Eagan (Mentor)
222	Mental Health Perception and Treatment Practices in the Indigenous Community of Saraguro, Ecuador	Luis M. Gonzalez-Quizhpe, Steve Quintana (Mentor)
223	Validation of the Domains in the Lifetime Total Physical Activity Questionnaire (LTPAQ)	Carley Richards, Elisa Torres (Mentor)
225	Estimating the Role of Educational Assortative Mating in Income Mobility and Income Inequality	Sidong Zhong, Steven Durlauf (Mentor)
227	Concussion Reporting in Male and Female Collegiate Students	Edwin Chen, Traci Snedden (Mentor)
231	Investigating the Effects of All-Trans Retinoic Acid on Pin1 and ER Protein in ER-Positive Breast Cancer	Alexandra Kissel, Natalia Solodin (Mentor)
233	The Role of Estrogen in the Prostate: Genes Regulated by Estrogen Receptors α and β 2	Izak Walker, Will Ricke (Mentor)
235	Assessing Maternal IQ and Association to Language use in Parent-Child Interactions	Erin Rudbeck, Janean Dilworth-Bart (Mentor)
237	Effect of Methionine Restriction on Expression of the Small Heat Shock Protein $\alpha\beta$ -Crystallin	Ashley Zenner, Vincent Cryns (Mentor)
239	Enhancing Tyrosine Metabolite Biosynthesis in <i>Arabidopsis</i> by Stimulating Upstream Tyrosine Synthesis	Daniel Griffith, Hiroshi Maeda (Mentor)
241	Camera Integration for a Next-Generation Gamma-Ray Telescope	Colin Adams, Colin Adams, Rachel Fedora, Justin Vandenbroucke (Mentor)
243	False Feedback as a Potential Motivator for Task Persistence	Victoria Klaas, C. Shawn Green (Mentor)
245	Biodiversity of Iron-Reducing Microorganisms in Soils and Sediments	Yu Chen, Eric Roden (Mentor)
247	Effects of Tick Tubes and Buckthorn Removal on Lyme Disease Prevalence	Rizza Pineda, Susan Paskewitz (Mentor)
249	Isogenic Blood Brain Barrier (BBB) Model Using hiPSCs	Madeline Faubion, Matthew Stebbins (Mentor)
251	Nuclear Accident Tolerant Fuel: FeCrAl Alloy Heat Treatments	Carter Tesch, Aaron Guckenberger, Anthony Wolf, Adrien Couet (Mentor)
253	Investigating New Materials to Help Slow Down Severe Accidents in Nuclear Reactors	Laura Miller, Jun Wang (Mentor)
255	How Single Parenting Affects College Performance	Chloe Gehl, Maggie Bertucci Hamper (Mentor)

PS#	TITLE	Presenters and Mentors
257	Analyzing the Relationship between Live Hip-Hop Shows and Violence	Theodora Varelis, Cody Fearing-Kabler, Taylor Konkle, Jacquelyn Laitsch, Hannah Pierce, Claire Rater, Karen Reece, Randy Stoecker (Mentor)
259	Texas-VI Applications	Neel Burman, Jun Wang (Mentor)
261	Depressive Symptomatology in Parents with Vs. without a Child with Autism Spectrum Disorder	Lisa Wendt, Shannon Jean, Sigán Hartley (Mentor)
263	Roles of Outcome Expectancy & Imaging Ability in Effects of CB Strategies for Cancer Symptoms	Heather Hynick, Kristine Kwekkeboom (Mentor)
265	Wind Turbine Foundation Loadings and Tower Moment	Briana Phibbs, Matthew Monette, James Tinjum (Mentor)
267	Skill Loss and Maintenance for Research Residents: A Longitudinal Study	Anna Witt, Shannon DiMarco (Mentor)
269	Examining the Foraging Ecology of Two Social Bees in a Shared Habitat	Gabrielle Stamas, Danny Minahan (Mentor)
271	Establishing a Wild Cranberry in Vitro Collection for Conservation and Breeding purposes	Aisha Anderson, Lorraine Rodriguez-Bonilla (Mentor)
273	Effect of Gpx1 Genotype on Selenium Biomarkers and Apparent Dietary Selenium Requirements in Mice	Andrew Blink, Edward Zemaitis, Roger Sunde (Mentor)
275	Occipital Nerve Stimulator for Bilateral Occipital Neuralgia	Omar Tarawneh, Alaa Abd-Elsayed (Mentor)
277	Evaluating Human Pluripotent Stem Cell-Based Photoreceptor Transplantation in Rodent Models	Shivani Jain, Michael Phillips (Mentor)
279	Predicting and Interpreting the Hofmeister Effects of Salts with Nucleic Bases and Aromatics	Runyu Hong, M. Thomas Record (Mentor)
281	Nurses—The Key to Creating Practice Changes Regarding Patient Mobility	Nathan Borhardt, Barbara King (Mentor)
283	Fit Families Supplemental Nutrition Assistance Program-Education	Lillian Stenz, Stephanie Lindsley (Mentor)
285	Strain Distribution in Fascicles Following the Introduction of a Partial Tear	Jared Muench, Darryl Thelen (Mentor)
287	Arbuscular Mycorrhizal fungi (AMF) Aquaporin Expression in Drought-Stressed Hosts	Kelly Verhaalen, Michelle Pearson (Mentor)
289	The Effects of a Flooding Event on Biodiversity of Wet-Mesic Prairie Vegetation in Central Wisconsin	Marissa Schatz, Paul Zedler (Mentor)
291	Ultra-Precision Machining in Manufacturing for Design and Sustainable Smart Manufacturing	Taylor Waddell, Sangkee Min (Mentor)
293	Investigating the Effects of BDNF in Developing Human Forebrain Neurons	Alec McCann, Timothy Catlett (Mentor)
295	Structural and Functional Changes in Anisometric and Strabismic Amblyopia	Anna Bauman, Nathaniel Miller, Bas Rokers (Mentor)
297	Outcomes of PALS: Improved Physical Function in Older African Americans	Emily Hammer, Kimberlee Gretebeck (Mentor)
299	Differential Decoder Evaluation using Pseudo-Random Testing	Nathan Jay, Barton Miller (Mentor)
300	Quantitative Proteomics of Pancreatic Cancer Stromal Signaling Using N, N-Dimethyl Leucine Labeling	Catherine Pearce, Lingjun Li (Mentor)

2017 Student Presenters

Last Name, First	Type	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Acevedo, Rachel	PS	I	VH	284	Cayenne, Nia	PS	I	VH	282	Farrell, Cayley	PS	III	VH	117
Adams, Colin	PS	III	VH	241	Celeste, Keith	PS	I	VH	136	Faubion, Madeline	PS	III	VH	249
Agwoeme, Chetachukwu	PS	I	VH	127	Chang, Constance	T	II	Ag-A		Feeney, Austin	PS	I	VH	173
Allen, Janerra	T	I	SW		Chase, Samantha	LS	II	5Q		Fernandez, Evan	T	I	IN-B	
Alqahtani, Omar	LS	I	NW-A		Chen, Yian	PS	II	VH	195	Fernandez, Joshua	LS	I	NW-B	
Altimi, Abdul Rahim	LS	III	5Q		Chen, Edwin	PS	III	VH	227	Fesser, Nicolas	PS	II	VH	173
Anderson, Icelle	T	II	NW-B		Chen, Yu	PS	III	VH	245	Fiala, Kenneth	PS	III	VH	166
Anderson, Aisha	PS	III	VH	271	Chi, Zhang	PS	III	VH	6	Fierek, Sarah	PS	I	VH	103
Ang, Jer Weann	T	III	AL		Childs, Charlie	PS	I	VH	73	Filipiak, Rachel	PS	III	VH	72
Ankomah, Emmanuel	PS	II	VH	296	Chini, Julia	T	III	AL		Fischer, Julie	T	I	IN-A	
Ansari, Hamayail	PS	III	VH	99	Choice, Chloe	PS	I	VH	179	Fischer, Sean	PS	III	VH	159
Anzia, Lucille	T	II	AL		Christianson, Kelsey	PS	II	VH	204	Fisher, Devorah	T	III	LM-A	
Arriaga, Noe	LS	I	NW-A		Cimperman, Clare	PS	I	VH	262	Fisher, Michael	PS	I	VH	254
Aschenbrenner, Riley	PS	II	VH	20	Clark, Arthur	PS	II	VH	2	Fitzpatrick, Timothy	T	III	LM-A	
Atsaves, Paula	PS	III	VH	27	Colah, Cyrus	LS	I	NW-A		Flanigan, Will	PS	I	VH	88
Baars, Destiny	PS	I	VH	115	Collins, Breana	PS	I	VH	43	Forster, Emily	T	II	IN-A	
Baccam, Natalie	LS	I	NW-A		Comp, Lily	T	I	SW		Fox, Kyra	T	III	SW	
Bae, Sunwoo	PS	II	VH	41	Comp, Lily	PS	II	VH	86	Frazier, Sylvia	T	I	IN-A	
Baryenbruch, Megan	LS	I	NW-A		Conway, Rachel	T	III	AL		French, Samuel	PS	II	VH	71
Battula, Sindhuja	PS	II	VH	201	Cook, Olivia	PS	III	VH	18	Friedman, Madeline	PS	II	VH	38
Bauman, Anna	PS	III	VH	295	Cooperstein, Isabelle	PS	II	VH	186	Fuglestad, Ryan	PS	II	VH	107
Bazan, Page	T	III	SW		Corey, Nathaniel	PS	I	VH	52	Fulmer, Leah	T	I	IN-B	
Beckemeyer, Nora	PS	I	VH	230	Cornette, Chayce	PS	II	VH	146	Gabriel, Paul	T	I	IN-A	
Bee, Olivia	LS	I	NW-A		Corr, Jainaba	PS	II	VH	8	Galles, Natalie	PS	III	VH	123
Beethem, Zachary	PS	I	VH	215	Cory, Evan	PS	II	VH	216	Gauthier, Cynthia	T	II	Ag-A	
Beier, David	PS	II	VH	101	Costello, Richard	PS	III	VH	84	Gee, Samuel	T	I	TR	
Beltran Hernandez, Daniela	LS	II	5Q		Cotter, Cory	PS	III	VH	153	Gehl, Chloe	PS	III	VH	255
Bensen, Josh	PS	II	VH	89	Counter, Sara	T	I	SW		Geissler, Jason	T	II	Ag-A	
Berg, Ryan	T	III	SW		Curran, Andrew	PS	I	VH	228	Geissler, Thomas	PS	I	VH	274
Berglund, Rachel	PS	I	VH	61	Czerwinski, Madison	T	I	SW		Georgeson, Hannah	PS	II	VH	14
Berry, Mackenzie	AT	II	MT		Dahlke, Ross	T	III	IN-A		Gigstad, Ryan	PS	II	VH	152
Bhatt, Nikita	LS	I	NW-A		Dandan, Elaine	PS	III	VH	48	Gilmore, Bridget	LS	I	NW-B	
Bhattacharya, Anupama	T	II	LM-B		DeGuire, Thomas	LS	II	5Q		Gilsdorf, Cole	PS	III	VH	90
Bin Salem, Faisal	PS	I	VH	219	DeLaitsch, Andrew	PS	I	VH	244	Giuliani, Charles	PS	II	VH	23
Bird, Jennifer	PS	I	VH	19	Dinkel, Kaitlin	PS	III	VH	51	Gluth, Austin	T	I	IN-A	
Blair, Ariana	LS	III	5Q		Doenier, Jon	PS	III	VH	214	Gonzalez-Quizhpe, Luis M.	PS	III	VH	222
Blink, Andrew	PS	III	VH	273	Dominguez, Yanzey	LS	III	5Q		Grange, Sara	LS	I	NW-B	
Bliss, Thompson	PS	I	VH	91	Douglas, Gabby	PS	I	VH	130	Gravelle, Kyra	PS	II	VH	134
Bomkamp, Brenna	PS	I	VH	55	Dowe, Kristin	PS	I	VH	49	Gray, Talia	F	III	MT	
Borchardt, Nathan	PS	III	VH	281	Drastal, Kimberly	T	II	Ag-A		Green, Rebecca	PS	I	VH	34
Bourget, Victor	T	II	AL		Dumar, Zachary	T	II	IN-A		Greuel, Samantha	PS	I	VH	16
Bratton, Sloane	PS	II	VH	53	Durkin, Kailey	PS	II	VH	131	Griffith, Daniel	PS	III	VH	239
Bray, Michael	LS	I	NW-A		Dutton, Mackenzie	T	I	TR		Grinis, Cecilia	PS	II	VH	290
Braza, Meredith	T	I	SW		Early, Stephen	PS	I	VH	121	Grove, Megan	PS	I	VH	7
Brekken, Claire	PS	I	VH	167	Early, Stephen	PS	I	VH	122	Gruenke, Rachel	T	III	NW-B	
Brelie, Matthew	LS	I	NW-A		Eggen, Nathan	PS	II	VH	44	Guerra, Cayla	T	I	IN-B	
Brodhead, Michael	PS	I	VH	133	Eken, Christian	T	I	IN-A		Gutzmann, Joshua	T	III	IN-A	
Burg, Emily	T	II	AL		Ellis, Hannah	PS	III	VH	78	Haase, Max	PS	II	VH	213
Burlingame, Luke	T	II	SW		Endemann, Chris	LS	III	5Q		Haedt, Madeline	PS	III	VH	174
Burman, Neel	PS	III	VH	259	Engstrand, Erica	T	II	IN-A		Hammer, Emily	PS	III	VH	297
Bye, Taylor	PS	III	VH	111	Engstrand, Erica	PS	III	VH	45	Han, Zonglin	PS	II	VH	143
Canda, Claire-Marie	PS	III	VH	187	Erbe, Jonathan	PS	I	VH	76	Handberg, Kate	T	I	IN-B	
Carlson, Tess	PS	I	VH	194	Erickson, Daniel	T	II	IN-A		Handler, Jessica	PS	I	VH	28
Carroll, Mackenzie	PS	I	VH	109	Erlichman, Zachary	PS	III	VH	36	Hang, Josh	LS	I	NW-B	
Castillo, Maria	PS	III	VH	24	Fader, Rachel	T	III	SW		Hanson, Caroline	T	II	IN-A	
Cayabyab, Jon-Luc	PS	I	VH	218	Fahmy, Lauren	PS	II	VH	177	Hare, Allison	PS	I	VH	188
					Fan, Xiaojing (Monica)	AT	II	MT		Havlicek, Benjamin	PS	I	VH	221

Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
HE, YE	T	II	LM-A		Klein, McKenzie	T	I	AL		Martin, Kelly	PS	I	VH	112
Heiderscheid, Evan	PS	I	VH	206	Knurr, Valerie	T	I	WI		Martinez, Cesar	PS	I	VH	145
Helpfenbein, Kylie	T	I	IN-B		Kohlenberg, Lucille	T	I	LM-B		Martinez Rodriguez, Maria Fernanda	LS	III	NW-A	
Heo, Jieun	LS	III	5Q		Kopp, Mallory	PS	III	VH	150	Masri, Zainah	T	III	TR	
Hernandez, Camilo	LS	I	NW-B		Korte, Marissa	PS	I	VH	238	Mast, Hannah	PS	II	VH	119
Hernandez, Jadid	LS	II	5Q		Kostreva, Olivia	PS	I	VH	191	Mathiaparanam, Jaffna	T	I	WI	
Hernandez Abrego, Alexis	LS	I	NW-B		Kotamarthi, Janavi	PS	I	VH	82	Matsche, Austin	T	III	IN-A	
Hess, Mackenzie	PS	I	VH	142	Kruk, Maddie	PS	I	VH	248	Matthew, Melvin	PS	I	VH	197
Hirshfeld, Brady	LS	I	NW-B		Kufner, Aaron	PS	II	VH	165	Mayer, Kirsten	T	I	Ag-A	
Hiserodt, Michele	PS	II	VH	113	Kujawa, Christine	PS	I	VH	258	McBride, Gillian	T	I	LM-A	
Hoehn, Rebecca	PS	I	VH	209	Kujawski, Kailee	LS	I	NW-B		McCann, Jack	PS	I	VH	154
Hoesly, Alayna	PS	I	VH	58	Kurup, Meghna	T	I	TR		McCann, Alec	PS	III	VH	293
Hoff, Elizabeth	PS	II	VH	104	Kustner, Natalie	PS	III	VH	147	McCormick, Caroline	PS	II	VH	74
Hoffman, Caitlin	LS	II	5Q		Kwan, Jack	T	III	LM-B		McGuire, Michelle	LS	III	NW-A	
Hong, Runyu	PS	III	VH	279	Lackey, Bryce	PS	III	VH	175	McIntire, Ian	PS	III	VH	156
Horwitz, Jacob	LS	III	5Q		Laitsch, Jacquelyn	PS	I	VH	252	McKeever, Matthew	LS	I	5Q	
Hoscheit, Benjamin	PS	I	VH	270	Langbehn, Andrew	PS	I	VH	148	McSorley, Catherine	PS	II	VH	77
Howe, Holly	T	III	IN-B		Laufenberg, Jordyn	DI	I	VH		Meidam, Brooke	T	III	IN-B	
Hoyer, Amanda	PS	III	VH	9	Law, Lena	T	III	LM-B		Mellert, Colleen	PS	I	VH	37
Hsu, Jessica	PS	I	VH	276	Lazarevic, Maja	LS	III	5Q		Men, Yusen	T	III	IN-B	
Hubert, Mryia	PS	I	VH	79	Lee, Hanjoo	T	III	IN-A		Meyer, Samantha	PS	II	VH	158
Hutner, Jacob	T	II	IN-B		Lee, Sang Yoon	PS	I	VH	234	Michelle, Tong	T	III	IN-A	
Huynh, Brandon	T	III	LM-B		Lee, Hana	LS	I	NW-B		Milavetz, Zoe	PS	III	VH	66
Hynick, Heather	PS	III	VH	263	Lees, Oliver	T	I	TR		Milbauer, Michael	PS	I	VH	64
Ike, Tiffany	PS	I	VH	229	Legreid, Jansen	PS	II	VH	17	Miller, Madeline	T	I	LM-B	
Immel, Bailey	PS	II	VH	207	Leo, Liu	PS	I	VH	217	Miller, Laura	PS	III	VH	253
Jackson, Kenneth	PS	II	VH	189	Li, Kai	T	III	LM-B		Minor, Samantha	T	III	WI	
Jacobo, Emilio	LS	II	NW-A		Liang, Mengyu	LS	III	5Q		Molly, Hodgson	PF	I	VH	
Jain, Shivani	PS	III	VH	277	Liebeck, MaKayla	LS	II	NW-A		Mora Hurtado, Arielle	PS	III	VH	208
Jain, Siddhant	DI	I	VH		Lika, Jorgo	T	III	IN-B		Moran, Jackson	T	III	AL	
Jardas, Emma	T	I	TR		Lincoln, Piper	T	III	NW-B		Moreland, Liam	PS	III	VH	169
Jasper, Angie	PS	I	VH	232	Lindborg, Analise	T	II	IN-B		Muench, Jared	PS	III	VH	285
Jasso, Kalene	PS	III	VH	87	Lindemann, Jacob	PS	I	VH	176	Muesbeck, Jessica	PS	I	VH	163
Jay, Nathan	PS	III	VH	299	Lindstedt, Anders	PS	III	VH	144	Mussar, Michael	LS	I	5Q	
Jay, Victoria	LS	II	NW-A		Loppnow, Melanie	PS	III	VH	141	Negrete Garcia, Eloisa	LS	III	NW-A	
Jen, Annie	T	III	LM-B		Loring, Sarah	PS	II	VH	35	Nelson, Jacob	LS	I	5Q	
Jewell, Emily	PS	II	VH	140	Lou, Meng	PS	I	VH	70	Nemeth, Haley	PS	I	VH	170
Joachim, Alyssa	T	II	IN-B		Lou, Hannah	PS	I	VH	151	Nerone, Gina	T	III	TR	
Johnson, Noah	T	III	NW-B		Lucarelli, Stefani	T	II	IN-B		Nesslein, Daniel	PS	III	VH	30
Johnson, Nicole	PS	I	VH	242	Lucas, Emma	PS	I	VH	94	Nguyen, Nguyen	T	III	IN-B	
Johnson, Laura	PS	II	VH	198	Lucas, Megan	LS	III	NW-A		Nickel, Chloe	PS	II	VH	288
Johnson, Haley	PS	III	VH	21	Lundeen, William	T	I	LM-B		Nielsen, Kip	PS	I	VH	272
Johnston, Courtney	PS	II	VH	155	Luo, Susan	PS	III	VH	193	Novak, Annie	PS	III	VH	12
Jorgensen, Erik	PS	III	VH	126	Lupinek, Madalyn	PS	I	VH	25	O'Neill, Shannon	PS	I	VH	224
Juntunen, Evan	PS	I	VH	139	Madden, Jordan	PS	I	VH	124	O'Rourke, James	T	III	NW-B	
Kabakov, Sabrina	PS	I	VH	226	Madrid, Alecio	T	I	Ag-A		Olaiya, Oona-Ifé	T	I	LM-A	
Kalman, Joshua	PS	II	VH	116	Magalhaes Souto Maior, Joao Pedro	T	II	LM-B		Orbuch, Rachel	T	II	IN-B	
Kant, Shannon	T	II	Ag-A		Mahant, Carson	PS	II	VH	56	Oxtoby, Luke	LS	I	5Q	
Kaplan-Pistiner, Steven	AT	II	MT		Malone, Sydney	PS	III	VH	138	Padgett, Grace	LS	I	5Q	
Karimikonda, Sritejasvinithi	LS	III	5Q		Malone, Molly	LS	I	NW-B		Palo, Michael	PS	II	VH	92
Keith, Celeste	PS	II	VH	137	Mangan, Cheyenne	PS	I	VH	4	Pandey, Aastha	PS	III	VH	75
Kertscher, Hailey	PS	I	VH	212	Markeland, Kylie	PS	III	VH	211	Parkin, Calvin	PS	I	VH	157
Kim, Lili	PS	I	VH	160	Marowski, Sarah	PS	II	VH	26	passow, alexander	PS	III	VH	181
Kim, Jason	PS	II	VH	29	Marquardt, Samuel	T	III	TR		Patnaik, Rohan	PS	I	VH	286
Kissel, Alexandra	PS	III	VH	231	Marshall, Krista	PS	I	VH	203	Peretz, Lauren	PS	I	VH	268
Klaas, Victoria	PS	III	VH	243	Martell, Tom	PS	II	VH	183	Perez, Jr., Gonzalo	PS	III	VH	42

Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#	Last Name, First	Format	Time	Room	Poster#
Peters, Sam	LS	I	5Q		Schranz, Luke	T	II	LM-A		Waddell, Taylor	PS	III	VH	291
Peterson, Catherine	PS	I	VH	185	Sebastian, Mathew	T	I	WI		Wagner, Madison	PS	II	VH	180
Peyton, Chloe	T	I	LM-B		Seeley, Megan	PS	III	VH	120	Waite, Lindsey	PS	II	VH	125
Phibbs, Briana	PS	III	VH	265	Setzke, Christopher	T	III	Ag-A		Walker, Izak	PS	III	VH	233
Philipps, Nicole	PS	III	VH	184	Shah, Rutvi	T	III	Ag-A		Wallin, Makaila	PS	II	VH	210
Phillips, Katie	PS	III	VH	15	Shah, Priya	PS	I	VH	182	Wan, Jason	T	II	AL	
Pietrunti, Nicole	T	II	LM-A		Sharpless, Alison	T	III	WI		Wang, Ruojun	T	I	Ag-A	
Pilch, Hannah	PS	II	VH	5	Shelton, Eva	PS	III	VH	93	Wang, Yijie	T	II	SW	
Pineda, Rizza	PS	III	VH	247	Shelton, Eva	PS	III	VH	172	Washington, Cory	T	II	LM-B	
Porubsky, Veronica	T	II	AL		Shim, Daeun	T	III	Ag-A		Weatherton, Noah	PS	III	VH	63
Potts, Sydney	PS	III	VH	162	Shireman, Jack	T	III	Ag-A		Wempner, Jenelle	PS	I	VH	280
Poventud, Jacelyn	AT	II	MT		Shireman, Jack	PS	I	VH	118	Wendt, Lisa	PS	III	VH	261
Pritchett, Erika	T	II	LM-A		Siamof, Cerise	PS	II	VH	83	Weston, Heidi	T	III	LM-A	
Pritzl, Kaitlyn	PS	II	VH	149	Singer, Karen	AT	II	MT		westphall, Matthew	PS	I	VH	246
Punathil, Ritika	PS	I	VH	200	Singh, Gurkaranjot	PS	I	VH	266	White, Payden	T	I	AL	
Radi, Katrina	PS	I	VH	106	Skiba, Justin	LS	II	NW-A		White, Mariel	T	III	WI	
Rakowski, Leanza	T	III	AL		Slavik, Kailey	PS	II	VH	110	Wickland, Colton	PS	II	VH	298
Ramesh, Vedika	T	II	NW-B		Smoko, Jessica	PS	III	VH	105	Widell, Sydney	T	III	LM-A	
Rameshk, Alysha	PS	II	VH	68	Sorensen, Nicholas	PS	I	VH	85	Wiessner, Emma	T	I	AL	
Rebernick, Ryan	T	I	LM-B		Sreeram, Akshitha	PS	III	VH	129	Willis, Kellie	PS	II	VH	95
Record, Helena	PS	II	VH	80	Srivastava, Aniruddha	PS	I	VH	100	Windau, Cassandra	PS	II	VH	59
Reinke, Peter	LS	III	NW-A		Stalter, Elliot	T	III	SW		Witt, Anna	PS	III	VH	267
Remondino, Karly	PS	II	VH	171	Stamas, Gabrielle	PS	III	VH	269	Woldt, Allison	PS	I	VH	278
Renteria, Jose	T	I	Ag-A		Stenz, Lillian	PS	III	VH	283	Wood, Aleksandar	T	II	SW	
Reyes, Edgar	T	I	LM-A		Stieve, Jared	PS	I	VH	10	Worzalla, Skylyn	LS	III	NW-A	
Reynolds, Alexandra	PS	II	VH	47	Stockton, Michael	PS	I	VH	97	Xiang, William	PS	II	VH	161
Richards, Thomas	PS	III	VH	81	Stonewall, Keven	PS	I	VH	236	xiong, sai	T	II	LM-B	
Richards, Carley	PS	III	VH	199	Strauss, Maya	T	III	LM-A		Xiong, Pazee	T	III	WI	
Richards, Carley	PS	III	VH	223	Suhre, Morgan	PS	III	VH	190	Xiong, Touyeng	PS	III	VH	178
Rider, Sam	PS	I	VH	250	Sun, Chongzhi	PS	II	VH	62	Yan, Claudia	PS	II	VH	168
Ridgeway, Zoe	PS	III	VH	96	Suresh, Vikram	PS	II	VH	50	Yang, Aylee	PS	I	VH	240
Ritger, Matthew	PS	I	VH	256	Swearingen, Janna	PS	III	VH	69	Yang, Sodie	LS	II	5Q	
Ritts, Casey	LS	I	5Q		Swenson, Mallory	PS	III	VH	54	Yang, Phia	LS	II	NW-A	
Rodriguez, Genesis	PS	III	VH	60	Tarawneh, Omar	PS	III	VH	3	Yeo, Bennett	T	I	Ag-A	
Rogers, Bradley	PS	III	VH	220	Tarawneh, Omar	PS	III	VH	275	yin, boyu	LS	III	NW-A	
Roloff, Rita	PS	III	VH	33	Tarnoff, Samantha	PS	I	VH	13	Yuka, Shiotani	PF	I	MT	
Ross, Dorie	PS	I	VH	46	Tesch, Carter	PS	III	VH	251	Yutuc, Noemi	DI	II	VH	
Rossa, Amelia	PS	I	VH	67	Tesfamichael, Dahlia	PS	III	VH	202	Zarecki, Trevor	PS	III	VH	132
Routes, Timothy	PS	III	VH	196	Thao, Kelly	T	I	WI		Zeng, Zhanpeng	PS	III	VH	205
Rudbeck, Erin	PS	III	VH	235	Thompson, Jaylene	LS	III	NW-A		Zenker, Rachel	T	I	AL	
Ruder, Justin	T	III	LM-A		Tomesh, Teague	PS	I	VH	31	Zenner, Ashley	PS	III	VH	237
Sabllich, Nicholas	PS	III	VH	108	Tong, Michelle	PS	II	VH	192	Zhang, Bo	PS	II	VH	11
Sacotte, Steven	T	II	NW-B		Toraason, Inger	T	II	NW-B		Zhao, jingyi	T	II	SW	
Sadecki, Patric	T	I	WI		Turcotte, Ann	PS	I	VH	22	Zhong, Sidong	PS	III	VH	225
Salazar, Miranda	LS	II	NW-A		Twadell, Sara	T	III	TR		Zielinski, Kyle	PS	I	VH	264
Sanborn, Cali	PS	III	VH	39	Tyler, James	PS	II	VH	65					
Sanders, Chiara	PS	II	VH	128	Uhl, Peyton	PS	III	VH	135					
Sandvold, Will	LS	I	5Q		Umhoefer, Jennifer	PS	I	VH	260					
Sanger, Morgan	T	II	LM-A		Underwood, Alyson	T	I	AL						
Santiago, Chloe	PS	III	VH	102	Usdin, Rachel	PS	II	VH	32					
Schatz, Marissa	PS	III	VH	289	Valdez, Glenda	PS	I	VH	1					
Schleck, Katherine	PS	III	VH	114	Valle, Troy	T	III	Ag-A						
Schmer, Natalie	PS	I	VH	40	Van De Hey, Dana	PS	III	VH	57					
Schmidt, Sophia	LS	I	5Q		Varelis, Theodora	PS	III	VH	257					
Schmit, Colleen	T	I	LM-A		Velazquez, Josue	LS	II	5Q						
Schneider, Cassidy	T	III	NW-B		Verhaalen, Kelly	PS	III	VH	287					
Schneider, Matthew	PS	II	VH	98	Vonderwell, Jordan	LS	III	NW-A						

Union South Level 2



Union South Level 3



Please join us for a celebration of UW–Madison
undergraduate academic and creative work at the

Ideas to Excellence Reception

Thursday, April 13, 2017

4:45–6 p.m.

Union South—Varsity Hall

Welcome and Presentation of Undergraduate Mentoring Awards
Steven M. Cramer, Vice Provost for Teaching and Learning

Talk with alumni, employers and university partners
who want to learn about student projects

Thank you to our Sponsors

Brittingham Trust
General Library System
Office of the Provost
Undergraduate Symposium



Ideas to Excellence, held each spring, showcases the academic and creative work of our undergraduate students. Multiple venues will house events — including exhibitions, poster sessions, presentations and performances — that celebrate excellence in student work.

<http://learning.wisc.edu/ideas>

The 89th Annual Student Art Show

The 89th Annual Student Art Show, sponsored by the Wisconsin Union Directorate (WUD) Art Committee, is the University of Wisconsin-Madison's longest-running celebration of student artists and a beloved campus tradition. It offers all UW-Madison students the opportunity to enter their work in a competitive juried exhibition.

Twenty-nine undergraduate students were admitted to the competition, of whom two won awards as noted below.

Congratulations!

Jamie Bang
Jeffrey Beczkiewicz
Arielle Bordow
Lena Carlson
Katie Cooney
William Doty
Brett Dvorak
Hayley Ganslaw
Hannah Goldberg
Audrey Hansa
Martha Holtz
Shiloh Jaxen
Brianna Kromrey
Lubov Laska
Julia Levine
Mike Lind

Jessalyn Mailoa
(Class of 1930 Purchase Award)
Megan Mitchell
Valen Monson
Bailey Morning
Will Olson
Ben Orozco
(WUD Art Committee Choice Award)
Stephen Parent
Madlyn Rohr
Elise Schimke
Heather Shumaker
Xueyan Wang
Lake White
Lily Wollin