The 11th Annual
Spring
Undergraduate Research Festival

Wednesday, April 8, 2015
4:30pm-6:30pm

University of Iowa
University Capitol Centre
2nd floor South Atrium
Iowa City, Iowa
This event is hosted by the Iowa Center for Research by Undergraduates.

ICRU promotes undergraduate involvement in research and creative projects at the University of Iowa, serving students, staff, and faculty.

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Students will stand by their posters for either the first or second hour and are free to visit fellow presenters’ posters during the other hour.

Odd numbered posters will present from 4:30-5:30PM
Even numbered posters will present from 5:30-6:30PM

***Please note that at 5:30, all of the boards will be turned around to show the even numbering and the second hour presenters’ posters***

The Spring Undergraduate Research Festival is proud to showcase poster presentations given by the University of Iowa’s student researchers.

These students work in over 30 different departments and represent each of the freshman, sophomore, junior, and senior classes.
First Hour Presenters
4:30-5:30PM
(odd numbers only)

1 - Preston Anderson
Lef-1 Over-expression Significantly Improves Innate Immune System
Major(s): Biochemistry & Human Physiology
Mentor(s): John Engelhardt (Anatomy and Cell Biology)

3 - Michael Anderson
Let there be MORE light: Intramolecular vs. intermolecular photosensitization of onium salt photoinitiators with coumarin
Major(s): Chemical Engineering
Mentor(s): Julie Jessop (Chemical & Biochemical Engineering)

5 - Lok-hang Au
   Hau-Yih Chang
Relationship between healthcare spending and morality rate state by state
Major(s): Mathematics
Mentor(s): N/A

7 - Rebecca Barrett
Direct Bioprinting of Vascular Contructs for Tissue Engineering
Major(s): Biomedical Engineering
Mentor(s): Ibrahim Ozbolat (Mechanical Engineering)

9 - Jay Blomme
Role of Autophagy in Skeletal Muscle Re-Growth After Ischemia
Major(s): Health and Human Physiology
Mentor(s): Vitor Lira (HHP)

11 - Alex Brown
Controlled Flow Focusing of Injectable Mesenchymal Stem Cell Microcarriers
Major(s): Biomedical Engineering
Mentor(s): James Ankrum (Biomedical Engineering)

We hope that you enjoyed talking with these outstanding students!

See you in December 2016 for the 6th Annual Fall Undergraduate Research Festival!

Many thanks to the 100+ graduate and professional students who volunteered their time to serve as poster judges.

Their commitment to the undergraduate research community at the University of Iowa is largely what makes these festivals so successful.
122 - Gabrielle Watson
Determining Demographic Factors That Cause Lost to Follow-up After Newborn Hearing Screening
Major(s): Communication Sciences and Disorders
Mentor(s): Lenore Holte and Amanda Owen Van Horne (Department of Communication Sciences and Disorders)

124 - Tom Werner
Max Clapp
Capturing Electronic Communication to Understand Cyberbullying
Major(s): Computer Science, Math
Major(s): Computer Science
Mentor(s): Octav Chipara (Computer Science)

126 - Christopher Winters
CaMKII Inhibition in Type II Pneumocytes Protects From Bleomycin-Induced Pulmonary Fibrosis and Ca2+ Dependent Apoptosis
Major(s): Biomedical Engineering
Mentor(s): Isabella Grumbach (UIHC Internal Medicine)

128 - Ashley Wiser
Development & Theory of Student Veteran Relationship Workshop
Major(s): History
Mentor(s): Michael Hall and Christine Skow (Military & Veteran Student Services)

130 - Angela Zhang
Whole transcriptome analysis of healthy and diseased brain tissue from epileptic patients
Major(s): Biochemistry, Statistics
Mentor(s): Jacob Michaelson (Psychiatry)

13 - Emma Buchele
PTEN Redundancy in Cancer: Overexpressing PTEN Homologs as a strategy to normalize Cancer cells.
Major(s): Nursing
Mentor(s): Daniel Lusche (Biology)

15 - Jacob Byers
Documenting Collective Activity in a Large Scale Introductory Chemistry Class
Major(s): Chemistry
Mentor(s): Renee Cole (Chemistry)

17 - Joelle Christy
The Effect of Intracochlear Electrode Design on Neural Response Telemetry Measures Recorded from Cochlear Implant Users
Major(s): Speech and Hearing Science
Mentor(s): Carolyn Brown (Communication Sciences and Disorders)

19 - Samantha Crooks
A comprehensive examination of procedural memory abilities following Traumatic Brain Injury
Major(s): Speech and Hearing Science
Mentor(s): Melissa Duff (Communication Sciences and Disorders)

21 - Christina Crowley
“Grapple Them to Thy Soul”: The Women’s Shakespeare Club of Marion, Iowa
Major(s): English
Mentor(s): Blaine Greteman (English)

23 - Ryan Davisson
Chance Lacina
Examining the interaction of feedback and training schedule during motor-skill learning
Major(s): Psychology
Mentor(s): Eliot Hazeltine (Psychology)
25 - Jenna DeCata
Investigating the role of Srs2 in the Double Strand Break repair pathway
Break-induced Replication (BIR)
Major(s): Biology: Genetics and Biotechnology
Mentor(s): Anna Malkova (Biology)

27 - Michael Dolan
Particulate Emissions From Globally Important Biomasses
Major(s): Chemistry
Mentor(s): Betsy Stone (Chemistry)

29 - Nicholas Dunne
Platelet specific knockout of glucose transporter 1 leads to gender specific alterations in metabolism, platelet activation, and bleeding
Major(s): Biomedical Engineering
Mentor(s): Trevor Fidler (Internal Medicine)

31 - Jacqueline Dunning
Vulnerabilities and Strengths of the Developing Brain: Astrocyte and Polydendrocyte Response in a Mouse Model of Fetal Alcohol Syndrome
Major(s): Neurobiology
Mentor(s): Michael Dailey (Biology)

33 - Jena Edwards
CRISPR/Cas9 technology to knock out the Aryl Hydrocarbon Receptor
Major(s): Biomedical Engineering
Mentor(s): Al Klingelhohtz (Microbiology)

35 - Emily Eilers
Measuring Listening Effort
Major(s): Communication Sciences and Disorders
Mentor(s): Ruth Bentler (Communication Sciences and Disorders)

37 - Yuan Fang
Stock Market Response to Airplane Crashes
Major(s): Business Analytics and Information Systems, Finance
Mentor(s): John Solow (Economics)

110 - Helaina Thompson
Treatment of Canine Leishmaniasis with Canine Specific PD1 Antibodies
Major(s): Health Science, Journalism, Engaged Social Innovation
Mentor(s): Christine Petersen (UI College of Public Health Department of Epidemiology)

112 - Jocelyn Todd
Finite Element Analysis of a Stemmed Total Ankle Replacement
Major(s): Biomedical Engineering
Mentor(s): Jess Goetz (Orthopaedic Biomechanics Laboratory)

114 - Heng-Wei Tsai
Acoustic Mapping Velocimetry Proof-of-Concept Experiment
Major(s): Civil/Environmental Engineering
Mentor(s): Marian Muste (Department of Civil/Environmental Engineering)

116 - Sarah Van Dorin
Inhibition of the SUMOylation of TFAP2A in basal breast cancer and glioblastoma leads to a decrease in proliferation and the cancer stem cell population
Major(s): Biochemistry
Mentor(s): Ronald Weigel (Biochemistry)

118 - Rachel Vasquez
Inhibition of the infralimbic cortex by the utilization of optogenetics
Major(s): Psychology
Mentor(s): Andrea Gutman and Caitlin Cosme (Psychology)

120 - Josh Volker
Altered Mitochondrial Dynamics in Platelets Resulted in a Prothrombotic Phenotype
Major(s): Biomedical Engineering
Mentor(s): Dale Abel and Rhonda Souvenir (Internal Medicine)
98 - Katie Skinner
Tracing Tracks: “Viewing” Dance in its Absence
Major(s): Dance, English
Mentor(s): Rebekah Kowal (Dance)

100 - Katelyn Sobotka
Coaching for the Win or Coaching for the Draft? An economic model of a successful Division I FBS Head Football Coach.
Major(s): B.B.A. Economics; B.S. Sport and Recreation Management
Mentor(s): John Solow (Economics)

102 - Hadiatou Sow
Incorporation of unnatural amino acids
Major(s): Human Physiology
Mentor(s): Christopher Ahern (Molecular Physiology and Biophysics)

104 - John Staak
What makes Facebook content engaging? An analysis of content from the 14 Big Ten Universities
Major(s): Marketing & Management
Mentor(s): William Hedgcock and Nick Westergaard (Marketing)

106 - Sarah Strack
Identifying Factors Involved in the Predator-Prey Interaction of Myxococcus xanthus and Bacillus subtilis
Major(s): Microbiology
Mentor(s): John Kirby (Microbiology)

108 - Collin Thatcher
Comparing patterns of molecular evolution in nuclear-encoded mitochondrial genes in sexual and asexual freshwater snails
Major(s): Human Physiology
Mentor(s): Maurine Neiman (Biology)

39 - Mary Feng
Topological Data Analysis of General Social Survey
Major(s): Mathematics, Statistics, Computer Science
Mentor(s): Isabel Darcy (Mathematics)

41 - Timothy Fuqua
A screen for enhancers integrating Suppressor of Hairless and other signaling pathways: decoding Notch-target enhancers
Major(s): Biology
Mentor(s): Albert Erives and Elizabeth Stroebele (Biology)

43 - Irina Gass
Globalizing Jewish-American Dance: The “New” Israeli Identity
Major(s): Dance
Mentor(s): Rebekah Kowal (Dance)

45 - Alejandra Gonzalez
Preliminary Stages of Technology Development for a Sexual Education App for Teens with ASD
Major(s): Nursing and Psychology
Mentor(s): Melissa Lehan Mackin (College of Nursing)

47 - Tess Haverkamp
List Equivalency in the Measurement of Listening Effort
Major(s): Communication Sciences and Disorders
Mentor(s): Yu-Hsiang Wu (Communication Sciences and Disorders)

49 - Lance Heady
Morphological response of neuronal cells to the P7C3-S321 neuroprotective molecule.
Major(s): Biochemistry and Biology
Mentor(s): Andrew Pieper (Psychiatry, Neurology, and Veterans Affairs)
51 - Nicholas Herkert  
Spatial and Temporal variations of airborne Polychlorinated Biphenyls (PCBs) in the Metropolitan Chicago area.  
Major(s): Civil & Environmental Engineering  
Mentor(s): Keri Hornbuckle and Andres Martinez (Civil & Environmental Engineering)

53 - Jonah Heskje  
Music anhedonia in patients with focal brain lesions  
Major(s): Biology  
Mentor(s): Daniel Tranel (Neuroscience)

55 - Hannah Hinkel  
Contextual Influences on Men’s Perceptions of Women’s Sexual Interest  
Major(s): Psychology  
Mentor(s): Teresa Treat (Psychology)

57 - Alexander Hjelmaas  
Investigating the Role of ANGPTL3 in Fat Metabolism  
Major(s): Biochemistry  
Mentor(s): Brandon Davies (Biochemistry)

59 - Brianna Hoffmann  
Skeletal 2nd/4th proximal hand phalangeal length ratios are associated with facial proportions in adult males  
Major(s): Anthropology (B.S.)  
Mentor(s): Robert Franciscus (Anthropology)

61 - Colton Jensen  
Synthesis of Dimolybdenum Complexes with the Dinucleating hpp ligand  
Major(s): Chemistry  
Mentor(s): Lou Messerle (Chemistry)

86 - Dzevida Pandzic  
Gene Regulation of Apogamy in Ceratopteris richardii  
Major(s): Human Physiology  
Mentor(s): Chi-Lien Cheng and Erin Irish (Biology)

88 - Zhen Qin  
Water uptake properties of atmospheric aerosol particles  
Major(s): Chemistry  
Mentor(s): Vicki Grassian (Chemistry)

90 - Nailah Roberts  
Ethnography of Space: Observing Social Privilege and Occupation in the Co-Ed, Multi-Racial/Ethnic Public  
Major(s): Cultural Anthropology, French  
Mentor(s): Deirdre Egan (Rhetoric)

92 - Brenda Rocha  
What makes the risk for T2DM matter to people who have a positive family history?  
Major(s): Nursing  
Mentor(s): Sandra Daack-Hirsch (College of Nursing)

94 - Kristy Sakurai  
Effects of Diet on Sleep of Shudderer, a Drosophila Voltage-Gated Sodium Channel Mutant that Displays Seizure-like Behaviors  
Major(s): Health & Human Physiology  
Mentor(s): Toshihiro Kitamoto and Patrick Lansdon (Anesthesia, Neurobiology)

96 - Genna Schneeberger  
Aphasia Reading Club Outcomes and Best Practices  
Major(s): Speech and Hearing Science  
Mentor(s): Alison Lemke (Communication Sciences and Disorders)
72 - Jordan Mattis
Decision Making During a Novel Noun Generalization Task
Major(s): Psychology; Communication Sciences and Disorders
Mentor(s): Larissa Samuelson (Psychology)

74 - Nicholas McCarty
Insulin Receptor Substrate (IRS) Signaling Preserves Contractile Function and Structure in the Adult Heart
Major(s): Biochemistry and Microbiology
Mentor(s): E. Dale Abel (Internal Medicine/Biochemistry)

76 - Astrid Montuclard
UIowa Campus-Based Intervention Study of Students' Water and Soft Drink Consumption
Major(s): Chinese, Asian Literature and Languages
Mentor(s): Helena Laroche (Internal Medicine)

78 - Hain Moon
Writing Exam Questions that Elicit Evidence of Process Skills
Major(s): Science Education
Mentor(s): Renee Cole and Jennifer Schmidt (Chemistry)

80 - Elaine Mou
Doses of Combined External Beam Radiotherapy and High-Dose-Rate Brachytherapy in Lymph Nodes
Major(s): Electrical and Computer Engineering
Mentor(s): Yusung Kim (Radiation Oncology)

82 - Hayley Nelson
Does oculomotor behavior reflect surface structure?
Major(s): Psychology
Mentor(s): Cathleen Moore (Psychology)

84 - Emily O'Brien
Body Temperatures of Very Low Birth Weight Infants on Admission to a Neonatal Intensive Care Unit
Major(s): Human Physiology
Mentor(s): Edward Bell (Pediatrics)

63 - Blake Johnson
Restoration of functional von Willebrand Factor levels in von Willebrand Disease through Piggy-bac mediated gene therapy
Major(s): Human Physiology
Mentor(s): Janice Staber (Pediatrics)

65 - Michelle Johnson
Sleep Deprivation is Prevalent among College Students and Those with Learning Impairments are at Risk for Sleep Disorders
Major(s): Speech and Hearing Sciences
Mentor(s): Karla McGregor (Communication Sciences and Disorders)

67 - Hyejung Kim
Dispersion between Similar Companies of South Korea and US through Valuing Firms Using Free Cash Flow Method
Major(s): Finance
Mentor(s): Tong Yao (Finance)

69 - Marcy Kreda
Predicting Decisions: Similarities between Simple Decisions and Complex Financial Decisions
Major(s): Marketing
Mentor(s): William Hedgcock (Marketing)

71 - Haley Kreiter
Predictors of Special Education Services in Children Who are Hard of Hearing
Major(s): Speech and Hearing Science
Mentor(s): Elizabeth Walker (Communication Sciences and Disorders)

73 - Kelsey Kruse
Patterns of development in CWS: persistent vs. recovered
Major(s): Speech and Hearing Science
Mentor(s): Tricia Zebrowski (Communication Sciences and Disorders)
75 - Carrie Lapsey  
Parent-Child Shared Positive Affect in Toddlerhood Predicts Children’s Internalization of Rules at Preschool Age  
Major(s): Psychology  
Mentor(s): Grazyna Kochanska (Psychology)

58 - Zehra Khan  
Identification of Organic Compounds and Source Apportionment of Particulate Matter in Karachi, Pakistan  
Major(s): Chemistry  
Mentor(s): Elizabeth Stone (Chemistry)

77 - Cara Larson  
The role of Nucleoporin 88 in Pena-Shokeir syndrome  
Major(s): B.A. Biochemistry  
Mentor(s): Lori Wallrath (Biochemistry)

60 - Tyler Klenske  
Effects of Epileptogenic Mutations on Behavioral Responses to General Anesthetics in Drosophila  
Major(s): Music, Human Physiology  
Mentor(s): Junko Kasuya and Toshi Kitamoto (Department of Anesthesia)

79 - Mackenzie Leonard  
Jissele Verdinez  
IC Red Week: Past, Present and Future  
Major(s): International Studies, Political Science  
Major(s): Human Physiology  
Mentor(s): Jon Winet (The Digital Studio for Public Arts & Humanities)

62 - Michael Korobov  
Impact of Presidential Elections on Gold Prices  
Major(s): Finance  
Mentor(s): Shagun Pant (Finance)

81 - Jared Liebergen  
Logic – The Abstract Science of Structure  
Major(s): Philosophy  
Mentor(s): Gregory Landini (Philosophy)

64 - Andrew Kral  
H2O Selectivity in Uranium Metal Organic Nanotubes  
Major(s): Chemistry  
Mentor(s): Tori Forbes (Chemistry)

83 - Alicia Means  
Posttraumatic growth in ovarian cancer patients and adjustment outcomes 1-year post-surgery  
Major(s): Psychology  
Mentor(s): Susan Lutgendorf (Psychology)

66 - Janet Lawler  
Imgur: A Study in Connective Action  
Major(s): Political Science, Classical Languages, Journalism  
Mentor(s): David Dowling (Journalism)

85 - Jason Mixdorf  
Rhodium-Catalyzed Benzylic Fluorination of Trichloroacetimidates  
Major(s): Chemistry  
Mentor(s): Hien Nguyen (Chemistry)

68 - Lu Liu  
Conversion Quantification in Epoxides Annealed after Cationic Photopolymerization  
Major(s): Chemical engineering  
Mentor(s): Julie Jessop (Chemical and biochemical engineering)

70 - Spencer Lundquist  
University of Iowa School of Art and Art History ICRU Involvement  
Major(s): BFA Painting  
Mentor(s): Lynne Lanning (School of Art and Art History)
46 - Thomas Heiderscheit  
Evaluating Aggregation Dynamics of Gold Nanoparticles using SERS  
Major(s): Chemistry  
Mentor(s): Amanda Haes (Chemistry)

48 - Marisa Henze  
e-Textbook Satisfaction and Adoption with use of a Promotional Video  
Major(s): Psychology  
Mentor(s): Samuel Van Horne (Office of Teaching, Learning, and Technology)

50 - Ashley Horne  
Women's Experiences of Breastfeeding as Shaped by Challenges of Work-Life Balance  
Major(s): Anthropology, Interdepartmental Studies - Health Science Track  
Mentor(s): Erica Prussing (Anthropology)

52 - Nate Hua  
Using 2DIR Spectroscopy to Characterize the Dynamics of Two Inhibitory Populations in the Active Site of Human Carbonic Anhydrase II  
Major(s): Chemistry  
Mentor(s): Chris Cheatum (Chemistry)

54 - Younis Ibrahim  
Elucidating the mechanisms contributing to mutagenesis of a DNA repair pathway  
Major(s): biology  
Mentor(s): Anna Malkova and Cynthia Sakofsky (Biology)

56 - Chen Jing  
Zuoyuan Zhao  
Bike Sharing System, Math, Statistic and computer science  
Major(s): Math and Statistics  
Major(s): Math and Computer Science  
Mentor(s): Isabel Darcy (Math)

83 - Christina Moscatel  
The Study of Filoviruses through the use of Computer Modeling  
Major(s): Anthropology  
Mentor(s): Andrew Kitchen (Anthropology)

89 - Miranda Neff  
Water-Soluble Organic Carbon and Iowa's Changing Climate  
Major(s): Chemistry  
Mentor(s): Betsy Stone (Chemistry)

91 - Nathaniel Otjen  
The Peoples' Weather Map  
Major(s): English and Anthropology  
Mentor(s): Barbara Eckstein (English)

93 - Brian Paul  
Mutations in ARHGAP29 and MAFB lead to craniofacial defects in mice  
Major(s): Human Physiology  
Mentor(s): Martine Dunnwald (UIHC Pediatrics)

95 - Therese Pechacek  
Representing the Unknown: The Great Dictator and the Holocaust  
Major(s): Cinematic Arts and Theatre Arts  
Mentor(s): Paula Amad (Cinematic Arts)

97 - Jillian Peterson  
The effect of altered speaking effort on bilabial contact pressures and intraoral air pressure, and the difference between these pressures during electrolarynx speech and laryngeal speech  
Major(s): Communication Science and Disorders  
Mentor(s): Jerald Moon (Communication Sciences and Disorders)

99 - Daniel Plebanek  
The Role of Property-Property Mappings on Cognitive Flexibility  
Major(s): Psychology and Linguistics  
Mentor(s): Larissa Samuelson (Psychology)
101 - Anthony Rogers
A Variable Frequency, Mis-Match Tolerant, Inductive Plasma Source
Major(s): Physics
Mentor(s): Fred Skiff (Physics and Astronomy)

103 - Chelsea Ryan
BLA Projection Modulation of Memory Consolidation
Major(s): Psychology
Mentor(s): Ryan LaLumiere (Psychology)

105 - Brett Schneider
Retrieving Conceptual Knowledge: Role of the Left Temporal Pole
Major(s): Biology and Psychology
Mentor(s): Daniel Tranel and Amy Belfi (Psychology/Neuroscience)

107 - Jassi Singh
Prospect Theory: An Analysis of Medical Decision Making Under Risk in the Nursing Home Setting
Major(s): Health and Human Physiology
Mentor(s): Mercedes Bern-Klug (Social Work)

109 - Sara Strandlund
Spermidine-induced autophagy as a potential intervention to protect cardiomyocytes against apoptosis associated with obesity and diabetes
Major(s): Human Physiology
Mentor(s): Vitor Lira (Human Physiology)

111 - Asli Tahan
Tablet-based Spatial Reconstruction Task: An Assessment Tool for the Aging Brain
Major(s): Psychology, BS
Mentor(s): Michelle Voss (Department of Psychology)

113 - Brittany Todd
The Role of Interleukin-1 in Traumatic Brain Injury Pathogenesis
Major(s): Biology, Music
Mentor(s): Alexander Bassuk and Elizabeth Newell (Pediatrics)

32 - Nicole Enright
Genetic variation for mitochondrial function in sexual and asexual freshwater snails
Major(s): Biology
Mentor(s): Maurine Neiman (Biology)

34 - Lisa Fasone
Feasibility of stent fracture and expansion in the palliation of branch pulmonary artery stenosis
Major(s): Human Physiology
Mentor(s): Melissa Bates (Health and Human Physiology)

36 - Lindsey Floryance
Extraction of Radiogallium with Polyether Sulfone Filters
Major(s): Biochemistry
Mentor(s): Michael Schultz (Radiation Oncology, Free Radical Radiation and Biology, Human Toxicology)

38 - Deidre Funk
Assessing the Seasonality of Use of a Late Woodland Rockshelter
Major(s): Anthropology
Mentor(s): Jim Enloe (Anthropology)

40 - Natani Gallagher
Exploring the Neural Correlates of Theory of Mind
Major(s): Psychology
Mentor(s): Arianna Rigon (Interdisciplinary Program)

42 - Sarah Gillespie
Increasing Input of Syntactic Structures to At-Risk Children: A Verb-Focused Intervention
Major(s): Speech and Hearing Science
Mentor(s): Amanda Van Horne (Communication Sciences and Disorders)

44 - Ryan Glanz
Cocaine Self-Administration in Rats Induces Regressive Prefrontal Structural and Functional Plasticity
Major(s): Chemistry, Psychology
Mentor(s): Jason Radley (Psychology)
20 - Ani Danelz
Development of Speech Perception in Children Determined by Eye-Tracking Paradigm
Major(s): Speech and Hearing Sciences, Psychology
Mentor(s): Bob McMurray (Psychology)

22 - Chloe Daniel
Determining Handedness From Lithic Reduction
Major(s): Anthropology, Psychology
Mentor(s): Robert Franciscus (Anthropology)

24 - Andre DeGroot
Activity and rest in Drosophila: Are certain tissues required for the striking Shaker mutant caffeine response?
Major(s): Biomedical Engineering
Mentor(s): Chun-Fang Wu (Biology)

26 - Jessica Detrick
Evaluating the long-term maintenance of treatment when parents implement FCT within their homes with coaching provided via telehealth
Major(s): Psychology and Art
Mentor(s): Dave Wacker (Pediatric Psychology)

28 - Benjamin Donovan
Development of Alignment Techniques for Off-plane X-ray Reflection Gratings
Major(s): Physics & Astronomy
Mentor(s): Randall McEntaffer (Physics & Astronomy)

30 - Roxanne Dudovitz
Polymorphic Hydrogen-bonding Motifs and Reactivity In Co-crystals of 5-fluorouracil
Major(s): Health and Human Physiology
Mentor(s): Leonard MacGillivray (Chemistry)

115 - Michael Turek
Novel phosphatase activity associated with RNA Polymerase II elongation complexes
Major(s): Biochemistry
Mentor(s): David Price (Biochemistry)

117 - Johanna Uthoff
Survey of Robustness, Repeatability, and Efficiency of Semi-Automatic Segmentation Tools when applied to Lung Nodules
Major(s): Biomedical Engineering
Mentor(s): Jessica Sieren (Departments of Radiology and Biomedical Engineering)

119 - Russell Valentin
Probing Deficits in Visuospatial Attention in High-risk preterms with the Infant Orienting With Attention (IOWA) task
Major(s): Psychology
Mentor(s): Peggy Nopoulos (Psychiatry)

121 - Michael Vinyard
Rhodium Catalyzed Amination of α-Fluoromethylated Allylic Trichloroacetimidates
Major(s): Chemistry
Mentor(s): Hien Nguyen (Chemistry)

123 - Rachel Winter
The Death of Semiology After Conceptual Art
Major(s): Art History
Mentor(s): Craig Adcock (Art History)

125 - Alex Yonk
REM Sleep Twitches Activate a Sensorimotor Pathway in Sleeping Infant Rats
Major(s): Psychology
Mentor(s): Mark Blumberg (Psychology/Biology)
127 - Kasra Zarei
Quantified Progression and Phenotyping of Glaucoma in DBA/2J, Nee, and TBK1 Genetic Models
Major(s): Biomedical Engineering
Mentor(s): Michael Abramoff (Ophthalmology, Electrical and Computer Engineering) and Todd Scheetz (Biomedical Engineering)

129 - Christopher Willauer
The Atomic Midwest: Mapping The Nuclear State of the United States
Major(s): Intermedia BFA
Mentor(s): Sarah Kanouse (Intermedia)

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Second Hour Presenters
5:30-6:30PM
(even numbers only — all boards will be turned around)

2 - Binan Al Turk
HOW INDECISIVENESS AFFECTS DECISION-MAKING AMONG OLDER ADULTS
Major(s): Speech and hearing sciences
Mentor(s): Natalie Denburg (Department of Neurology, Carver College of Medicine)

4 - Seima Al-Momani
Acute Effects of Moderate Intensity Aerobic Exercise on Brain Function during a Working Memory Task.
Major(s): Psychology
Mentor(s): Timothy Weng (Psychology)

6 - Maya Amjadi
Ectosomes from human neutrophils laden with Staphylococcus aureus induce a pro-inflamatory response in macrophages
Major(s): Biology, Spanish
Mentor(s): Bill Nauseef (Internal Medicine)

8 - Yuanyaun Bai
Use Atomic Force Microscopy to analysis the organic nanocrystalline materials.
Major(s): Chemistry
Mentor(s): Alexei Tivanski (Chemistry)

10 - Jordan Bennett
Curation and research of the Frost Collection of corals from the modern-day “Coral Triangle”
Major(s): Anthropology
Mentor(s): Tiffany Adrain and Ann Budd (Earth and Environmental Science)

12 - Kenny Carlson
Incidental learning of rewarded associations is modulated by reward context
Major(s): Psychology
Mentor(s): Eliot Hazeltine (Psychology)

14 - Kayla Caryl
We Need More Banjo: The Relationship Between Bluegrass and Popular Music
Major(s): Political Science - Pre-law
Mentor(s): Donna Parsons (Music)

16 - Kathryn Classon
Using a Central Composite Design to Predict Cationic Active Center Mobility During Shadow Cure
Major(s): Chemical Engineering
Mentor(s): Julie Jessop (Chemical and Biochemical Engineering)

18 - Rae Ann Corrigan
Homology Model Optimization of Cancer Gene Wild-Types and Mutations: BRAF
Major(s): Biomedical Engineering
Mentor(s): Nancy Downing (Nursing) Michael Schnieders (Biochemistry/Biomedical Engineering)