10th Annual
Fall Undergraduate Research Week
& Student Poster Forum

September 15, 2016
Thompson Library
Buckeye Reading Room

The Ohio State University
Undergraduate Research Office & University Libraries
Welcome to the 2016 Fall Undergraduate Research Student Poster Forum!

We are excited to see the great accomplishments of students carrying out independent research at The Ohio State University. These undergraduate students represent an extremely talented and enterprising group of young scholars.

Congratulations to students for taking full advantage of the outstanding research opportunities that OSU has to offer. We also appreciate the network of support that these students have received from their faculty mentors, home departments, and many other offices and individuals dedicated to promoting high-quality educational opportunities across the OSU campus.

Lorraine Wallace, PhD
Director
Undergraduate Research Office

Helene Cweren
Associate Director
Undergraduate Research Office
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Let’s get started!

Acknowledgements

The Undergraduate Research Office and University Libraries would like to thank the following organizations, groups and offices for their support and participation in Undergraduate Research Week and the Student Poster Forum:

- Journal of Undergraduate Research at Ohio State
- Office of Research
- Office of Undergraduate Education
- Office of Service-Learning
- Pelotonia Undergraduate Fellowship Program
- University Center for the Advancement of Teaching
- Peer Research Contacts of the Undergraduate Research Office
- The student and staff volunteers who made today’s event possible
- Faculty mentors who support undergraduate research and make these posters possible
Session 1
11:00am-12:30pm

Symmetrized Bingham Distribution Mixture Model for Unsupervised Texture Estimation
Poster: 1
CARL AHLBORG
Materials Science & Engineering
Advisor: Stephen Niezgoda (Materials Science & Engineering)

Structural Effects of a Deafness-Related Mutation on the Tip Links formed from Cadherin-23 and Protocadherin-15
Poster: 2
PRANAY ARORA
Biomedical Engineering
Advisor: Marcos Sotomayor (Chemistry & Biochemistry)

Biomimetic model of the breast tumor microenvironment: hydrogel design and composition
Poster: 3
NAMRATA ARYA
Biomedical Engineering
Advisor: Jessica Winter (Chemical & Biomedical Engineering), Mark Calhoun (Biomedical Engineering)

Patients’ Mental Well-being by PHA Questionnaires and Their Relation to Cancer Progression
Poster: 4
HETIAN BAI
Mathematics
Advisor: Po-Yin Yen and Zachary Abrams (Biomedical Informatics)

The Influence of “Ensemble Statistics” and Goal-Directed Attention on Color Perception
Poster: 5
JANE BEAUFOR
Neuroscience
Advisor: Julie Golomb and Jiageng Chen (Psychology)

Treating Brewery Wastewater with Fixed Media Bioreactors
Poster: 6
CHARLOTTE BUCY
Food, Agricultural & Biological Engineering
Advisor: Karen Mancl (Food, Agricultural, and Biological Engineering)

Computation of 13 TeV Transfer Functions for Use in a Search for New Scalar Particles
Poster: 7
ANTHONY CIAVARELLA
Physics, Mathematics
Advisor: Harris Kagan (Physics)

Converting ammonia to fuel cell-grade hydrogen using chemical looping
Poster: 8
KATE CLELLAND
DENNIS TRAN
Chemical Engineering
Advisor: L.S. Fan and Mandar Kathe (Chemical & Biomolecular Engineering)

Sunrise to Sunset: The Relationship between Reproductive and Longevity Technologies
Poster: 9
NICOLE COTTON
English, Psychology
Advisor: Stephanie Brown (English)

PAM-2, a putative cognition enhancer, reverses working memory deficits in an animal model of schizophrenia
Poster: 10
LUCAS CRUM
Neuroscience
Advisor: John Bruno (Neuroscience)

Hippocampal spatial map formation using persistent homology
Poster: 11
BOWEN DAI
Mathematics
Advisor: Facundo Memoli Techera and Samir Chowdhury (Mathematics)

Exploring how acoustic reduction, dialect variation, and gender interact with word predictability in the context of speech intelligibility in noise
Poster: 12
MEGAN DAILEY
Linguistics
Advisor: Cynthia Clopper (Linguistics)

Ethanol-induced Inflammation in the Developing Hippocampus: Mast Cell Degranulation and Microglia Activation
Poster: 13
TYLER DAUSE
Neuroscience
Advisor: Derick Lindquist (Psychology)

Deformations of the Event Horizon of a Schwarzschild Black Hole Induced by Gravitational Waves
Poster: 14
MARINA DAVID
Mathematics, Physics
Advisor: Robert Wald and Alexander Tolish (Physics, University of Chicago)
The Relationship Between Heart Rate Variability and Emotional False Memories

Poster: 15

HAVOVI DESAI
Psychology

Advisor: Julian Thayer and Derek Spangler (Psychology)

Sexual Dimorphism in Troponin Expression in Guinea Pig Jaw Adductors

Poster: 16

KELLY DOAN
Biology

Advisor: Peter Reiser (Dentistry)

Biofilm Formation in Hydraulically Fractured Deep Subsurface Environments

Poster: 17

KEVIN EBERLE
Microbiology

Advisor: Michael Wilkins (Microbiology)

Integrated Biomimetic and Biophysical Approach to Profile Metastatic Cancer Cells

Poster: 18

JACOB ENDERS
Biomedical Engineering

Advisor: Jonathan Song (Mechanical & Aerospace Engineering)

A tool for diagnosing and staging synucleinopathies

Poster: 19

CLAIREE RICKSON
Neuroscience

Advisor: Jeff Kuret (Biological Chemistry and Pharmacology)

The Mobile Paradigm in Infants with Complex Congenital Heart Disease: Can I They Learn?

Poster: 20

JULIA FINN
Public Health

Advisor: Jill Heathcock (Health and Rehabilitation Sciences)

Use of 15N Enrichment in Manure to Estimate Nitrogen Losses Through Ammonia Volatilization from Dairy Manure

Poster: 21

LYDIA FLORES
Animal Sciences

Advisor: Chanhee Lee and Dennis Morris (Animal Sciences)

The role of the microRNA mir-125a-5p in mouse skeletal development

Poster: 22

SOPHIA FRIESEN
Molecular Genetics

Advisor: Susan Cole and Kanu Wahi (Molecular Genetics)

The History of Baby Pathé in America

Poster: 23

JAYCE FRYMAN
Film Studies

Advisor: Beth Kattelman (Theatre Research Institute)

Investigating Epithelial-Mesenchymal Transition and Cross Resistance in Cancers Resistant to Fibroblast Growth Factor Receptor Inhibitors

Poster: 24

ELIJAH GARDNER
Microbiology, English

Advisor: Sameek Roychowdhury (Medical Oncology), Melanie Krook (Comprehensive Cancer Center)

Hydrogenating Graphene and Improving the Efficiency of the Process of Hydrogenating

Poster: 25

ANDREW GEORGE
Physics

Advisor: Jay Gupta (Physics)

Mindfulness and Emotion Regulation in Multiple Sclerosis

Poster: 26

HANNAH GIBBS
Neuroscience

Advisor: Ruchika S. Prakash and Brittney Schirda (Psychology)

Getting Bi: Links Between Discrimination, Sexual Orientation Self-Disclosure, and Relationship Satisfaction in Bisexual Individuals

Poster: 27

SARAH GOBRIAL
Psychology

Advisor: Amelia Aldao and Ilana Seager (Psychology)

Identification of Novel Axon Guidance Genes Using Natural Population Lines of Drosophila melanogaster

Poster: 28

MAYA GOSZTYLA
Neuroscience, Molecular Genetics

Advisor: Mark Seeger (Molecular Genetics)

Elucidation of the Role of miR-575 on Tumorigenesis in Glioblastoma

Poster: 29

ASHLEY GRAY
Neuroscience

Advisor: Erica Bell and Tiantian Cui (Radiation Oncology)

Exposure to PM2.5 In Utero Contributes to Early Adult Cardiac Dysfunction

Poster: 30

JACOB GRIMMER
Biomedical Science

Advisor: Loren Wold and Vineet Tanwar (Nursing)
Design and Synthesis of Bacterial Biofilm Inhibitors for Salmonella typhi

Poster: 31
ERIN HAM
Pharmaceutical Sciences
Advisor: James Fuchs (Pharmacy)

Poly(Ethylene Glycol) Functionalized 4',4”-Difluorobenzotropine Analogues

Poster: 32
ERIC HOUCHEN
Chemistry
Advisor: Noel Paul (Chemistry & Biochemistry)

Effect of tRNA Overexpression on trn10Δ Growth Patterns

Poster: 33
ABIGAIL HUBACHER
Biochemistry
Advisor: Jane Jackman (Chemistry & Biochemistry)

Effect of Vacuum System Base Pressure on Corrosion Resistance of Sputtered SS304L Thin Films

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RUNNAN JIANG
Materials Science & Engineering
Advisor: Gerald Frankel (Materials Science & Engineering)

Aza-peptide Ketones: A New Class of Inhibitors of the 20S Proteasome

Poster: 35
KAYLA KASPER
Chemistry
Advisor: Ozlem Dogan Ekici (Chemistry & Biochemistry)

The physical and behavioral effect of environmental enrichment on fast-growing broiler activity

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SHANNON KELLEY
Animal Sciences
Advisor: Monique Pairis-Garcia (Animal Sciences)

Investigating the role of glutamate transporter EAAT2 in chronic stress induced depression

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COREY KEYSER
Neuroscience, Philosophy
Advisor: Chien-Liang Lin (Neuroscience)

Identification, cloning, and expression of a muscle specific gene, TMEM182

Poster: 38
JIWON KIM
Animal Sciences
Advisor: Kichoon Lee (Animal Sciences)

Rheological Analysis of DNA Origami Folding

Poster: 39
PATRICK KINNUNEN
Chemical Engineering
Advisor: Carlos Castro (Mechanical & Aerospace Engineering)

Modified Strontium Titantes and Cobaltates as Electrocatalysts for Oxidative Dehydrogenation of Ethane

Poster: 40
NATHANIEL KRAMER
Chemical Engineering
Advisor: Umit Ozkan (Chemical & Biomolecular Engineering)

The Effect of Prenatal Allergic Inflammation on Dendritic Spine Density and Immune Cell Activity in the Prefrontal Cortex

Poster: 41
ANNEMARIE KRUG
Neuroscience
Advisor: Kathryn Lenz (Psychology and Neuroscience)

Analysis of Semi-Infinite Solid Heat Transfer in Turbine Blade Serpentine Passages

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ADITYA KULKARNI
Aeronautical and Astronautical Engineering
Advisor: Randall Mathison (Mechanical & Aerospace Engineering)

Partial Pressures of Crystallization and Magma Plumbing Systems beneath Hawaiian Volcanoes

Poster: 44
YUYU LI
Earth Sciences
Advisor: Michael Barton and Jameson Scott (Earth Sciences)

The Development of Inductive Mechanisms

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SAM LOTZ
Psychology
Advisor: Vladimir Sloutsky and Tracey Miser (Psychology)

King Arthur irl: The Influence of 15th Century England on Sir Thomas Malory’s Le Morte Darthur

Poster: 46
MEGAN MACDONALD
Medieval and Renaissance Studies
Advisor: Karen Winstead (English)

Seafloor Brine Lake Impacted by Submarine Landsliding: An Example from the Orca Basin, Walker Ridge, Gulf of Mexico Continental Slope

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ROBERT MASON
Earth Sciences
Advisor: Derek Sawyer (Earth Sciences)
Event Discrimination with Convolutional Neural Networks
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HAREESH MENON
Physics
Advisor: Richard Hughes (Physics)

Production and Quantitative Characterization of Tissue Engineered Bone Extracellular Matrix
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STEFANI MONTELONE
Biomedical Engineering
Advisor: David Dean (Plastic Surgery)

Peripheral Blood T Cell-Dependent B Cell Activation Assay
Poster: 54
RILEY MULLINS
Pharmaceutical Sciences
Advisor: Laura Conforti and Peter Hajdu (Internal Medicine, University of Cincinnati)

Bioassay-Guided Isolation, Identification, and Activity Evaluation of Cytotoxic Compounds from the Roots of Elaeocarpus japonicus
Poster: 55
GREGORY NAGY
Pharmaceutical Sciences
Advisor: A. Douglas Kinghorn and P. Annécie Benarehina (Pharmacy)

Antibody Conjugated Magnetic Nanoparticles for the Analysis of Troponin in the Blood
Poster: 56
MAHNOOR NAQVI
Electrical and Computer Engineering
Advisor: Nima Ghalichechian (Electrical and Computer Engineering)

Investigation of Protein-Protein Interactions using Surface Induced Dissociation (SID) MS
Poster: 59
STACEY NASH
Biochemistry
Advisor: Vicki Wysocki and Florian Busch (Chemistry & Biochemistry)

Determining the Role of Protein Kinase C in Acute Myeloid Leukemia
Poster: 60
REEMA NAVALURKAR
Microbiology
Advisor: Susheela Tridandapani and Jon Butchar (Internal Medicine)

Towards reconstitution of human RNase P, a large catalytic ribonucleoprotein complex
Poster: 61
TUAN NGUYEN
Biochemistry
Advisor: Venkat Gopalan (Chemistry & Biochemistry)

Community profiling the inflated intestine
Poster: 62
BRIDGET O’BANION
Environmental Science
Advisor: Kelly Wrighton and Lindsey Solden (Microbiology)

The Creation of PEGylated pH-Trigged Self-Assembling Peptide Amphiphiles for Long-Circulating Cancer Targeting MRI Contrast Agents
Poster: 63
EMILY PARADIS
Biochemistry
Advisor: Joshua Goldberger (Chemistry & Biochemistry)

History, Treatment, and Preparation for Digitization of 14th Century Estate Rolls
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ANNABEL PINKNEY
Chemistry
Advisor: Eric Johnson (Rare Books & Manuscripts Library), Harry Campbell (Preservation and Reformatting)

Ventilation and Microbial Communities in LEED and non-LEED Certified Buildings
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QUENTIN PLATT
Environmental Engineering
Advisor: Karen Dannemiller (Civil, Environmental and Geodetic Engineering)
Linking enhanced activation of GABA neurons in the medial prefrontal cortex to reduced postpartum anxiety

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CAITLIN POST
SKYLER MAUER
Neuroscience
Advisor: Benedetta Leuner (Psychology and Neuroscience), Sara Sabihi (Psychology)

Investigation of titin proteolysis in Senepol cattle

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ANISHA PRABHU
Animal Sciences
Advisor: Eric England and Surinder Chauhan (Animal Sciences)

Age-related Differences in Frequency and Content of Mind-Wandering: Associations with Attentional Control

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NIKKI PUCETTI
Psychology
Advisor: Ruchika Prakash (Psychology)

The Effects of Widening the Binding Pocket of Human Metallo Peptidase 9 (MMP-9) on the Breakdown of Amyloid Beta 42 (Aβ42)

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MITCH RAITH
Chemical Engineering
Advisor: David Wood (Chemical & Biomolecular Engineering)

A Comparison of Deer Impact on Canopy Structural Complexity Across Boreal and Deciduous Biomes

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SAMUEL REED
Environmental Science
Advisor: Peter Curtis (Evolution, Ecology, and Organismal Biology), Roger Williams (Environment and Natural Resources)

Affinity chromatography with mass spectrometry to detect Aspergillus fumigatus proteins

Poster: 71
CORY ROETH
Chemistry
Advisor: Vicki Wysocki and Jikang Wu (Chemistry & Biochemistry)

Emotion Regulation and Decision Making: How Ruminatio Affects Decision Making and Risk Taking Behaviors

Poster: 72
CLaire ROWE
Psychology
Advisor: Amelia Aldao and Lee Dunn (Psychology)

Minor Cations within Antarctic Stream Water

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ELSA SAELENS
Earth Sciences
Advisor: Berry Lyons (Earth Sciences)

Bacterial Denitrification and Phosphate Absorption in Agricultural Wastewater

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MICAH SAUER
Environmental Engineering
Advisor: Linda Weavers (Civil, Environmental and Geodetic Engineering)

Aqueous P-type Dye-Sensitized Solar Cell for a Tandem Cell Design

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BRADLEY SCHOCKMAN
Chemical Engineering
Advisor: Yiying Wu and Kevin Click (Chemistry & Biochemistry)

Establishment of an In-Vitro System to Study the Organogenetic Program Responsible for Self-Organization in the Neurosphere Life Cycle

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AUSTIN SCHOEFFLER
Neuroscience
Advisor: Jaime Imitola (Neurology)

Self-Sensing Materials for Advanced Manufacturing and Temperature Monitoring

Poster: 77
EMILY SCHULTZ
Mechanical Engineering
Advisor: Leland Weiss (Mechanical & Aerospace Engineering)

Inhibition of the JAK-STAT and MAPK Pathways as a Potential Therapy for Chronic Pancreatitis

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JACKSON SCHUMACHER
Neuroscience
Advisor: John Bruno (Psychology and Neuroscience)

Effects of Nicotinic Alpha-7 Receptor Positive Allosteric Modulators on Cortical and Mesolimbic Glutamate Transmission: Implications for the Treatment of Schizophrenia

Poster: 79
ERIN SCHWOEGL
Biology
Advisor: Gregory Lesinski and Hannah Komar (Internal Medicine)

ASICs and the Delta Opioid Receptor in Acid-Dependent Cell Death and Oxygen Gluten Deprivation

Poster: 80
Haley SECHRIST
Neuroscience
Advisor: Candice Askwith (Neuroscience)

Synthesis of Quinone Methide Precursors as Acetylcholinesterase Reactivators

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SYDNEY SILLART
Chemistry
JUSTIN SMITH
Biology
Advisor: Christopher Callam (Chemistry & Biochemistry)
Transforming Growth Factor-β 2 suppresses Müller glia reprogramming in the retina
Poster: 82
NATALIE SQUIRES
Neuroscience
Advisor: Andy Fischer (Neuroscience)
3D Printing Poly(propylene fumarate) (PPF): Effect of Scaffold Size on Human Mesenchymal Stem Cell (hMSC) Proliferation and Differentiation
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BRIANA SWAN
Microbiology
Advisor: David Dean (Plastic Surgery)
How to Stop the Bleeding?: A Novel Treatment in Stroke Therapy
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SPENCER TALENTINO
Biology
Advisor: Shahid Nimjee and Debra Wheeler (Neurological Surgery)
Overexpression of MicroRNA in Fanconi Anemia Pathway (FANCD2) Defective Lung Cancer
Poster: 85
SHIRLEY TANG
Biomedical Engineering
Advisor: Wenrui Duan (Medical Oncology)

Definition of Atg8 function in Plasmodium falciparum
Poster: 86
KIERAN TEBBEN
Microbiology
Advisor: Mark Drew (Microbial Infection & Immunity), Juan Alfonzo (Microbiology)
The fast muscle myosin light chain mylpfa is essential for fast muscle function and integrity
Poster: 87
EMILY TEETS
Molecular Genetics
Advisor: Sharon Amacher and Jared Talbot (Molecular Genetics)
Elevated Kynurenic Acid Effects on Prefrontal Glutamate Release
Poster: 88
NOAH THOMAS
Neuroscience
Advisor: John Bruno (Neuroscience)
Tarnishing Silver into Semiconductors
Poster: 89
BRITTANY TRANG
Chemistry, English
Advisor: J. Nathan Hohman and Mary Collins (Lawrence Berkeley National Laboratory)

After the Spill: Using Applied Folklore and Interdisciplinary Methods in the Study of Vernacular Landscape in West Virginia's Chemical Valley
Poster: 90
BETHANI TURLEY
Comparative Studies
Advisor: Katherine Borland (Comparative Studies)
The Effect of Ions on the Stability of Palmitic Acid Monolayers
Poster: 91
ANDREW VIDALIS
Biochemistry
Advisor: Heather Allen and Bethany Wellen (Chemistry & Biochemistry)
Comparison between denture base materials processed by the traditional and the two-cycle method
Poster: 92
GEFEI WANG
Biochemistry
Advisor: Scott Schricker and Mostafa Ibrahim (Dentistry)
Destabilization of Turbulent Drag Reducing Micelles by an Electric Field for the Purpose of Increasing Convective Heat Transfer
Poster: 93
LUCAS WATSON
Chemical Engineering
Advisor: Jacques Zakin (Chemical & Biomedical Engineering)

Structure-Function Studies of Complementary Binding Site Mutations in NFU1: Implications for Iron-Sulfur Cluster Biosynthesis and Mitochondrial Disease
Poster: 94
NATHANIEL WESLEY
Biochemistry
Advisor: James Cowan (Chemistry & Biochemistry)
Hydrogen Measurement Capabilities for Characterizing Hydrogen-Assisted Cracking in Dissimilar Metal Welds
Poster: 95
JACOB WILDOFSKY
Mechanical Engineering
Advisor: Boian Alexandrov (Materials Science & Engineering)
Effects of Habitat Patch Size on the Abundance of Red-Backed Salamanders (Plethodon cinereus)
Poster: 96
ANDREW WILK
Forestry, Fisheries, and Wildlife
Advisor: Bill Peterman (Environment and Natural Resources)
French Social Housing and the Human Condition
Poster: 97
SHELBY WRIGHT
Architecture
Advisor: Jackie Gargus (Architecture)
Effect of Spin Coating Conditions on the Inter-Molecular Ordering and Performance of Organic Photovoltaic Materials

Poster: 98
MENGLIN ZHU
Materials Science & Engineering

Advisor: Jinwoo Hwang (Materials Science & Engineering)

Using of Shipping Containers for Sustainable Housing Development

Poster: 99
XINGYU ZHU
Civil Engineering

Advisor: Halil Sezen (Civil, Environmental and Geodetic Engineering)

Exercise of Duchenne Muscular Dystrophy mice to examine efficacy of lisinopril and spironolactone

Poster: 100
JONATHAN ZINS
Biomedical Science

Advisor: Jill Rafael-Fortney (Physiology & Cell Biology)
Session 2
12:45pm-2:15pm

Regulation of Cancer Biomarker Plastin 2 Activity by its Uniquely Phosphorylated N-terminal Peptide
Poster: 1
RICHA AGRAWAL
Biochemistry
Advisor: Dmitri Kudryashov (Chemistry & Biochemistry)

BTK Inhibitor Ibrutinib Reprograms Myeloid Derived Suppressor Cells into Dendritic Cells
Poster: 2
PABLO ALARCON
Microbiology
Advisor: Abhay Satoskar and Cesar Terrazas (Pathology)

Determining binding specificities of cell adhesion molecules from Drosophila
Poster: 3
LEAH ANDERSON
Molecular Genetics, Violin Performance
Advisor: Mark Seeger (Molecular Genetics)

Identifying the species of bone chips in a beef and pork sausage
Poster: 4
HOPE ANDREWS
Animal Sciences
Advisor: Eric England (Animal Sciences)

No Room for Hoarding: The Consequences of tRNA Intron Turnover Dysfunction
Poster: 5
ALICIA BAO
Biomedical Science
Advisor: Anita Hopper (Molecular Genetics)

Influence of miR-155 in Mouse Influenza
Poster: 6
ADAM BERCZ
Microbiology
Advisor: Ian Davis (Veterinary Medicine)

Site Directed Mutagenesis of Cyclophilin 19
Poster: 7
NICK BISHOP
Biomedical Science
Advisor: Bradford McGwire (Internal Medicine), Bijay Jha (Pathology)

Using stable isotopes to analyze the shift to piscivory in juvenile largemouth bass
Poster: 8
MELISSA BITTNER
Zoology
Advisor: Elizabeth Marschall (Evolution, Ecology, and Organismal Biology)

Treating Schnyder Corneal Dystrophy with Mesenchymal Stem Cells in a Murine Model
Poster: 10
MICHELLE BOETTLER
Biology
Advisor: Winston Kao and Fei Dong (Ophthalmology, University of Cincinnati)

Ghanaians and Self Medication in Relation to Religion and Education
Poster: 11
DENIA BONTI
African American and African Studies
Advisor: Monika Brodnicka (African American and African Studies)

Predator-Prey Behavioral Dynamics: Space Use of Green Darner Dragonflies and Green Frog Tadpoles in Response to Chemical Cue Exposure
Poster: 12
TAYLOR BROWN
Evolution & Ecology
Advisor: Stuart Ludsin and Michael Fraker (Evolution, Ecology, and Organismal Biology)

Using a revisionary study of Trachymyrmex zeteki (Formicidae: Attini) and description of a new species, Trachymyrmex fovater sp. n.
Poster: 14
CODY CARDENAS
Entomology
Advisor: Rachelle Adams and Alex DeMillo (Evolution, Ecology, and Organismal Biology)

Predator-Prey Behavioral Dynamics: Space Use of Green Darner Dragonflies and Green Frog Tadpoles in Response to Chemical Cue Exposure
Poster: 12
TAYLOR BROWN
Evolution & Ecology
Advisor: Stuart Ludsin and Michael Fraker (Evolution, Ecology, and Organismal Biology)

Varying Visual Imagery Perspective to Assess Interest
Poster: 15
CLARE CARLISLE
Psychology
Advisor: Lisa Libby and Zachary Niese (Psychology)

Profiling the Effect of Cancer-Associated Fibroblasts on Matrix Alignment and Hydraulic Permeability
Poster: 16
JONATHAN CHANG
Biomedical Engineering
Advisor: Jonathan Song (Mechanical & Aerospace Engineering)
Gate Driver Circuit Design for Fast Switching of Wide Bandgap Power Semiconductor Device

Poster: 17
KAILIN CHEN
Electrical and Computer Engineering
Advisor: Fang Luo and Amol Deshpande (Electrical and Computer Engineering)

Comparison of qPCR and digital PCR for detection of microorganisms in house dust

Poster: 18
SAMUEL COCHRAN
Biology
Advisor: Karen Dannemiller (Public Health)

Effects of Thawing Rate on Post-thaw Motility of Sauger Sperm

Poster: 19
EMILEE COPPLE
Animal Sciences
Advisor: Marco Coutinho Da Silva and Bryan Blawut (Veterinary Medicine)

Measuring Permittivity in Warm Dense Matter Using Reflectivity

Poster: 20
ZACHARY COTMAN
Engineering Physics
Advisor: Linn Van Woerkom (Physics)

Using a Novel Interluekin-15 Construct (ALT-803) to Enhance Natural Killer Cell Activity Against Cetuximab-Treated Head and Neck Cancer Cells

Poster: 21
NICHOLAS COURTNEY
Molecular Genetics
Advisor: William Carsom (Surgery), Elizabeth McMichael (Comprehensive Cancer Center)

Functional complementation of proteins critical for the initiation of transposable element silencing: SDE5, SDE3, and SGS3

Poster: 22
ALISSA CULLEN
Molecular Genetics
Advisor: Richard Slotkin (Molecular Genetics)

DNA intron sequencing for clinical grade detection of gene fusions in cancer

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MIKAYLA DANTUONO
Biology
Advisor: Sameek Roychowdhury and Melanie Krook (Internal Medicine)

Expansion of Lattice Theory Driven Mathematical Models to Define Fullerene-like Viral Capsid Structures

Poster: 24
PRAACHI DAS
Mathematics
Advisor: Anthony Nance and Farrah Sadre-Marandi (Mathematics)

To sting or not to sting: when social parasites use their venomous weaponry

Poster: 25
MAZIE DAVIS
Zoology
Advisor: Rachelle Adams and Alexandria DeMilto (Evolution, Ecology, and Organismal Biology)

Predicting Alcohol Use Problems in College Students Using Machine Learning Methods and Psychiatric and Personality Risk Factors

Poster: 27
QIAOLAN DENG
Mathematics
Advisor: Woo-Young Ahn (Psychology)

Effects of prenatal nicotine exposure on circadian rhythms and affective phenotypes in adulthood

Poster: 28
REUBEN DON
Neuroscience
Advisor: Randy Nelson (Neuroscience)

Adropin, Non-Esterified Fatty Acids, Glucose, and Insulin concentration in Dairy Cows at Different Physiological Stages

Poster: 29
HANNA EDVARDSSON
Animal Sciences
Advisor: Alejandro Relling (Animal Sciences)

Investigating scalding duration on the temperature increase in whole muscle hams

Poster: 30
MORGAN FOSTER
Animal Sciences
Advisor: Eric England and Surinder Chauhan (Animal Sciences)

Characterizing the Binding Interface of Paraoxonase-1 via Unnatural Amino Acid Incorporation

Poster: 31
GREGORY FRIEDBERG
Neuroscience
Advisor: Thomas Magliery (Chemistry & Biochemistry)

Dissecting the Tumor Suppressive Functions of PTEN in Endometrial Cancer

Poster: 32
JAMES GALLAGHER
Biology
Advisor: Gustavo Leone (Cancer Biology and Genetics), Christopher Koivisto (Veterminary Medicine)

Applying the Monte Carlo Method to the Simulation of W Boson Decay

Poster: 33
STEPHEN GANT
Physics
Advisor: Harris Kagan (Physics)
Identifying novel protein components of the cytoplasmic capping complex using proximity-dependent biotinylation

Poster: 34
ANDREW GILTMIER
Molecular Genetics
Advisor: Daniel Schoenberg (Biological Chemistry and Pharmacology)

Community-Based Kiosks for Hearing Screening and Education

Poster: 35
MEGAN GLENN
Speech and Hearing Science
Advisor: Lawrence Feth and Christina Roup (Speech and Hearing Science)

Temporal characterization of femtosecond, mid-infrared laser pulses generated by an optical parametric amplifier

Poster: 36
XIAOWEI GONG
Physics
Advisor: Louis DiMauro and Yu Hang Lai (Physics)

Investigation of Viral Transmission Between Honey Bees and Native Bees

Poster: 37
BENJAMIN GREEN
Biology
Advisor: Karen Goodell (Evolution, Ecology, and Organismal Biology), Reed Johnson (Entomology)

Replicability of classification procedures for microarray gene expression data

Poster: 38
DINANK GUPTA
Electrical and Computer Engineering
Advisor: Mohammadmahdi Yousefi (Electrical and Computer Engineering)

Antifungal Susceptibility Profiling

Poster: 39
KATELYN HAGSTROM
Microbiology, Molecular Genetics
Advisor: Chad Rappleye (Microbiology)

Omega-3 Fatty Acids Influence Behavioral and Neurophysiological Chemotherapy-Induced Deficits in the Presence of a Low Sucrose Diet

Poster: 40
ADAM HAINES
Neuroscience
Advisor: Courtney DeVries (Neuroscience)

Microbial growth in carpet dust under diurnal variations in relative humidity

Poster: 41
SARAH HAINES
Environmental Engineering
Advisor: Karen Dannemiller (Civil, Environmental and Geodetic Engineering)

Optimizing Liquid Crystals as Plasma Mirrors for Ultra-intense Lasers

Poster: 42
RICHARD HEERY
Physics
Advisor: Douglass Schumacher (Physics)

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HANNAH HELBER
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Advisor: Craig Burd (Molecular Genetics), Andrea Patterson (Molecular, Cellular, Developmental Biology)

Finding Aid for the ECC

Poster: 45
SIERRA HESS
English
Advisor: Katie Blockside (Warner Center Library)

Molecular Modeling of Potential Therapeutics for Aged Acetylcholinesterase Reactivation

Poster: 46
RACHEL HOPPER
Biochemistry
Advisor: Ryan Yoder (Chemistry & Biochemistry)

Modulators of Platelet Adhesion to Aortic Collagen in DDR1 Deficient Mice

Poster: 49
MEGAN IRELAND
Biomedical Engineering
Advisor: Jessica Winter and Barbara Wyslouzil (Chemical & Biomolecular Engineering)

Scalable Synthesis of Micellar Nanocomposites via Liquid-Liquid Electrospray

Poster: 48
ANTHONY IGNOZZI
Biochemistry
Advisor: Vadim Fedorov (Physiology & Cell Biology)

Childhood Stressful Life Events and the Expression of Psychotic Symptoms in Children and Adolescents with Mood Disorders

Poster: 47
BRIELLE HUDSON
Psychology
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GIRK Channel Blockade Reverses Adenosine-Induced Automaticity and Conduction Inhibition in Human Sinoatrial Node Dysfunction

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SIERRA HESS
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Advisor: Katie Blockside (Warner Center Library)

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Poster: 48
ANTHONY IGNOZZI
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Advisor: Vadim Fedorov (Physiology & Cell Biology)
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<td>JACKSON KILLIAN</td>
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<td>JENNIFER HEEKYUNG KIM</td>
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<td>Advisor: Gustavo Leone (Cancer Biology and Genetics), Soo In Bae (Comprehensive Cancer Center)</td>
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<td>MICHAEL KOVACEVICH</td>
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<td>Advisor: James Beatty and Patrick Allison (Physics)</td>
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<td><strong>My Work With Physics Computer Coaches (Essential Skills and C3PO)</strong></td>
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<td>JOHN KUCZEK</td>
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<td>Physics, Astronomy</td>
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<td>Advisor: Andrew Heckler (Physics)</td>
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<td><strong>Ibrutinib Inhibits Liver Tumorigenesis by Downregulating EGFR Signaling Pathway</strong></td>
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<td>EUNICE KWAK</td>
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<td>Health Sciences</td>
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<td>Advisor: Kalpana Ghoshal (Pathology), Nis sar Wani (Comprehensive Cancer Center)</td>
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<td><strong>Structural Optimization of the Phyllanthusmin Core Ring System</strong></td>
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<td>BERNADETTE LATIMER</td>
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<td>Chemistry</td>
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<td>Advisor: James Fuchs (Pharmacy)</td>
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<td><strong>Design and Construction of an Ultraviolet Nano-Laser</strong></td>
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<td>MANH LE</td>
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<td>Advisor: Enam Chowdhury (Physics)</td>
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<tr>
<td><strong>Molecular Mechanism of EGFR Signaling via mTOR Promotes SCAP/SREBP-1 Activation in Glioblastoma</strong></td>
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<td>QIYUE LI</td>
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<td><strong>The Search for the Acetylenic Receptor</strong></td>
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<td>NICHOLAS LIPARI</td>
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<td>Advisor: Noel Paul (Chemistry &amp; Biochemistry)</td>
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<td>NAVEENA LUKE</td>
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<td>Neuroscience</td>
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<td><strong>Exploring the potential role of NRAS isoform mutations in acute myeloid leukemia</strong></td>
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<td>SOPHIA MAHARRY</td>
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<td>Advisor: Ann-Kathrin Eisfeld (Internal Medicine), Albert de la Chapelle (Cancer Biology and Genetics)</td>
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<td><strong>IL-6 blockade combined with MEK inhibition in pancreatic cancer</strong></td>
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<td>NEIL MAHIJANI</td>
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<td><strong>Berlin Residents’ Attitudes and Perceptions towards the Refugee Crisis</strong></td>
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<td>REBECCA MARTIN</td>
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<td>MCKENNA MOLNAR</td>
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<td>Advisor: Peter Curtis (Evolution, Ecology, and Organismal Biology)</td>
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Exploration of Isolates of Streptococcus pneumoniae Amongst Tracheostomy Tube Dependent Children

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AMBER MOORE
Microbiology
Advisor: Samantha King (Nationwide Children’s Hospital)

Methylamine metabolism provides substrate for methanogenesis in hydraulically fractured shales

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DAVID MORGAN
Microbiology
Advisor: Kelly Wrighton (Microbiology)

Identifying feeding behavioral patterns and frequencies of group housed sows fed with ESF systems

Poster: 71
MARISSA MULLIGAN
Animal Sciences
Advisor: Monique Pairis-Garcia and Magnus Campler (Animal Sciences)

Conjure, Hoodoo, and the Cross: African Spirituality and the Slave Experience in Pre-Antebellum America

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CHRIS NEWMAN
African American and African Studies
Advisor: Ousman Kobo (History)

Synthesis and Application of Imogolite Nanotubes

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NATHANIEL OLSON
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PrMT Expression in T-Lymphocyte Activation

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AYUSH PEDDIREDDI
Biomedical Science
Advisor: Mireia Guerau (Health and Rehabilitation Sciences)

An Emerging Security Dilemma in the 21st Century

Poster: 77
LILLIAN PHAM
Political Science
Advisor: Randall Schweller and Alexander Wendt (Political Science)

The Role of L-Lactate in the Pathogenesis of the Painful/Degenerate Intervertebral Disc

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ANDREW PISCIONERI
Biomedical Engineering
Advisor: Devina Purmessur (Biomedical Engineering)

Gauging Progress Through Holistic Healing from Sexual Assault via Cortisol Fluctuations

Poster: 79
THERESE RAJASEKERA
Neuroscience
Advisor: Tamar Gur (Psychiatry)

Lineage-specific gene duplications found in the White-nose Syndrome pathogen

Poster: 80
PAIGE RAMON
Microbiology
Advisor: Hannah Reynolds and Jason Slot (Plant Pathology)

Positive and negative regulatory elements in the HIV-1 5’ UTR control specific recognition by Gag

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JOSHUA-PAOLO REYES
Biochemistry
Advisor: Karin Musier-Forsyth and Erik Olson (Chemistry & Biochemistry)

Effect of Progressive Muscle Relaxation (PMR) on Aggression Caused by Violent Video Clips

Poster: 82
ABIGAIL ROBBERTZ
Psychology
Advisor: Brad Bushman and Kevin Collier (Communications)

How Genetic Attribution Impacts Stigma by Association Toward Families of People with Mental Illness

Poster: 83
ANNA ROSS
Psychology
Advisor: Duane Wegener and Jeremy Gretton (Psychology)

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MICHELLE SDAO
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Advisor: Eric Johnson (Rare Books & Manuscripts Library)

Evaluating KMT2D as a metastasis gene for squamous cell carcinoma

Poster: 85
SHARON SHIM
Biology
Advisor: Amanda Toland (Cancer Biology and Genetics)
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<td>Microglia dependent monocyte trafficking is critical for stress-induced anxiety-like behavior</td>
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<td>Sustainable Plant Systems</td>
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<td>Skyrmions in Iron Germanium Systems</td>
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<td>Soil sampling methodology for Soybean Cyst Nematode</td>
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<td>KATHERINE WOLFE</td>
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<td>Mothers’ and Fathers’ Sociodemographic Characteristics: Prospective associations with preschoolers’ problem behaviors</td>
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<td>Analyzing Electrical Properties of Germanane</td>
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<td>Larry Schlesinger and Eusondia Arnett (Microbial Infection &amp; Immunity)</td>
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<td>Investigating Additional Biochemical Pathways of Thg1 in S. cerevisiae</td>
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<td>Jane Jackman and Tracy Roach</td>
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<td>Anne Dorrance</td>
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<td>Advisor: Leonard Brillson (Physics)</td>
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<td><strong>RANA ABOOMAR</strong></td>
<td>International Studies</td>
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<td>Advisor: Randolph Roth (History)</td>
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<td><strong>HANNAH ADAZZIO</strong></td>
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<td><strong>The role of histone chaperones HIRA and UBN1 in the tumor microenvironment</strong></td>
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<td><strong>MUHAMMAD AKBAR</strong></td>
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<td>Advisor: Ulrich Heinz (Physics)</td>
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<td>Grain Size and Mineralogy of Sediment Samples in Eastern St. John Along a Transect from Bordeaux Mountain to Coral Harbor</td>
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<td><strong>ELIZABETH AUCKLEY</strong></td>
<td>Chemistry, History of Art</td>
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<td><strong>FRANK CHEN</strong></td>
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<td>Advisor: Yinjie Shen (Neuroscience)</td>
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<td><strong>LYNDSAY BOYD</strong></td>
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<td><strong>MONICA CHAN</strong></td>
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URO Vision

We seek to more fully integrate the dual missions of research and teaching at Ohio State, to enrich the undergraduate experience, and to become known as a national leader of campus-wide undergraduate research programs.

The Undergraduate Research Office

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