**Bayer School of Natural and Environmental Sciences**

**Excellence in Research in the Basic Sciences: $300**

**89** **Serine Phosphorylation is Involved in Lps-Dependent Activation Of The Spi-1 Transcription Factor**

Tiffany Ricketts
Other Authors: David Kosko, Sree Pulugulla
Junior | Biochemistry | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Philip Auron, Ph.D.

**Excellence in Research in the Basic Sciences: $300**

**114** **Detection of Lead in Drinking Water Using a Homemade and Inexpensive LED-Based Fluorometer**

Gage Tiber
Other Authors: Aria Parangi, Partha Basu, Spencer Graves
Senior | Physics | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Ted Corcovilos, Ph.D.

**Honorable Mentions: $100**

**13** **Evaluation of a mini-barcode primer set for use in monitoring ray-finned fish communities from environmental DNA samples.**

Ashton Callipare
Other Authors: Taylor Cutteridge, Brian Trevelline and Brady Porter
Sophomore | Biology | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Brady Porter, Ph.D.

**Honorable Mentions: $100**

**58** **Skin peptides from red-legged salamanders (Plethodon shermani) inhibit the chytrid fungus Batrachochytrium dendrobatidis.**

Andrew Magyan
Other Authors: Sarah Woodley
Senior | Biology | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Sarah Woodley, Ph.D.

**Honorable Mentions: $100**

**109** **Development of the Field Isolation and Amplification of DNA Assay (FIA-DNA) kit: A Revolutionary Method for Species Identification of Unknown Samples**

Nickolas Walker
Senior | Forensic Science & Law | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Jan Janecka, Ph.D.

**Honorable Mentions: $100**

**123** **Mechanical and thermal design for a part-per-million laser wavelength meter**

Jake Kline, Jahnavee Mittal, Isaac Davies, Tim Ireland, Gage Tiber
Undergraduate Research and Scholarship Symposium
Award Winners 2017

Sophomore | Physics | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Ted Corcovilos, Ph.D.

Center for the Catholic Faith and Culture and Center for Spiritan Studies
Catholic Faith and Culture and Spiritan Studies Award for Undergraduate Research: $250
16 Better Babies and “Race Suicide”: Eugenics in Pittsburgh Women’s Groups
Nicole Cordier
Senior | History and Classics | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Andrew Simpson, Ph.D.

Center for African Studies
Award for Undergraduate Research: $250
2 Unity is Strength: Effective Global Partnerships
Clara Altemus, Nikki Yeckel, Quinn Tattersall
Other Authors: Anne Marie Hansen
Senior | Occupational Therapy | Rangos School of Health Sciences
Faculty Advisor: Jaime Munoz, Ph.D.

Center for Teaching Excellence
Award for Undergraduate Research: $250
42 Imagination vs. Logical Thinking: The Difference in Imagination between a Higher-Level Learner and a Lower-Level Learner
Morgan Hamby
Senior | Early Childhood Education | School of Education
Faculty Advisor: Sandra Quinones, Ph.D.

Counselor Education Program
Award for Undergraduate Research: $250
143 The Effect of Alternate Seating on Improving Attention and in Seat Behavior of Preschoolers with Autism
Kristen Morgus
Senior | Occupational Therapy | Rangos School of Health Sciences
Faculty Advisor: Jeryl Benson, EdD, OTR/L

Department of History
The Clio Award for Undergraduate Research in History
First Place: $200
16 Better Babies and “Race Suicide”: Eugenics in Pittsburgh Women’s Groups
Nicole Cordier
Senior | History and Classics | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Andrew Simpson, Ph.D.

Second Place: $150
72 Women in the Late Nineteenth Century: Involvement in the 1893 Chicago World’s Fair
Maria Miller
Junior | History / Secondary Education | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Jotham Parsons, Ph.D.
Undergraduate Research and Scholarship Symposium Award Winners 2017

Third Place: $100

40 Talk Less, Smile More: How Supplemental Education is the New Textbook Education
Emily Grecco
Senior | Dual Degree Secondary Social Studies Education and History | School of Education
Faculty Advisor: Patricia Sheahan, Ph.D.

Gumberg Library

Gumberg Library Award for Undergraduate Research: $250

20 Tracking the Sexual Assault Kit Backlog
Kallie Crawford
Senior | Forensic Science & Law | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Lyndsie Ferrara

Honors College

Outstanding Poster: $250

96 Measurement of the Proton Radius at The Paul Scherrer Institute (PSI)
Adam Sneath
Sophomore | Physics | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Fatiha Benmokhtar, Ph.D.

Mary Pappert School of Music

Mary Pappert School of Music Undergraduate Award: $250

67 Music Therapy and the Rehabilitation of Child Soldiers
Christie McKernan
Senior | Music Therapy | Mary Pappert School of Music
Faculty Advisor: Robin Chapdelaine, Ph.D.

McAnulty College and Graduate School of Liberal Arts

Outstanding Research Merit: $250

87 Spatial and Temporal Estimations for Familiar Objects and Events
Jennifer Rauch
Senior | Psychology | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Alexander Kranjec, Ph.D.

Mylan School of Pharmacy

Award for Undergraduate Research: $250

52 Antimicrobial Stewardship in Dental Practice: The Development and Impact of a Pharmacy-Led Intervention
Natalie Kokta
Other author: Anthony J. Guarascio, PharmD, BCPS
Senior | Pharmacy | Mylan School of Pharmacy
Faculty Advisor: Autumn Stewart, PharmD, BCACP, CTTS
Undergraduate Research and Scholarship Symposium
Award Winners 2017

76 Novel ERK5/MEK5 inhibitors in the treatment of triple negative breast cancer
Victoria Nesbitt
Additional Authors: Akshita Bhatt, Thomas Wright, Jane Cavanaugh, Patrick Flaherty
Senior | Pharmacy | Mylan School of Pharmacy
Faculty Advisor: Jane Cavanaugh, Ph.D.

Office of the Provost
Outstanding Scholarship Award: $250
119 No Value: Money and Material Possession as Symbols for Decaying Values in Faulkner's The Sound and The Fury and As I Lay Dying
Elisha Jones
Junior | English | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Greg Barnhisel, Ph. D.

Office of Research for Outstanding Poster: 125
17 A Comparative Study of Two Analgesic Compounds, Fenobam Sulfate and Fenobam Free Base, Using a Model of Inflammatory Nociception
Abigail Cox
Other Authors: Neil Lax, William Welsh, Youyi Peng , Benedict Kolber
Junior | Biology | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Benedict Kolber, Ph.D.

Best Formal Presentation: $125
67 Music Therapy and the Rehabilitation of Child Soldiers
Christie McKernan
Senior | Music Therapy | Mary Pappert School of Music
Faculty Advisor: Robin Chapdelaine, Ph.D.

Office of Diversity and Inclusion
Outstanding Undergraduate Research: $250
110 Reproductive Health Awareness Among Female Adolescents of Inner City Pittsburgh
Ella Walsh, Jamie Watt, Shaylene Carter, Ana Uribe
Senior | Nursing | School of Nursing
Faculty Advisor: Jessica Devido, PhD; Cathleen J. Appelt, PhD; and Andrew T. Simpson, PhD

Phi Kappa Phi, National Honors Society
Outstanding Research: $500
7 Approaching Neuroscience Using an Engineering View
Marissa Behun
Other Authors: Benedict J. Kolber
Junior | Biomedical Engineering | Biomedical Engineering
Faculty Advisor: Mary Jo Babinsack
Undergraduate Research and Scholarship Symposium
Award Winners 2017

Honorable Mention: $250
20 Tracking the Sexual Assault Kit Backlog
Kallie Crawford
Other author: Lyndsie Ferrara
Senior | Forensic Science & Law | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Lyndsie Ferrara

Honorable Mention: $250
116 Body Posture and Perceptions of the Homeless
Natalia Wohar
Sophomore | Psychology | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Alex Kranjec, Ph.D.

Honorable Mention: $250
114 Detection of Lead in Drinking Water Using a Homemade and Inexpensive LED-Based Fluorometer
Gage Tiber
Other Authors: Aria Parangi, Partha Basu, Spencer Graves
Senior | Physics | Bayer School of Natural and Environmental Sciences
Faculty Advisor: Ted Corcovilos, Ph.D.

Rangos School of Health Sciences
Rangos School of Health Sciences Award for Undergraduate Research: $250
100 The Effect of ADHD and Learning Disabilities on Neurocognitive Baseline Testing in High School Student-Athletes: A Critically Appraised Topic
Morgan Starczewski, James Daniel
Junior | Athletic Training | Rangos School of Health Sciences
Faculty Advisor: Erica Beidler, Ph.D.

Rangos School of Health Sciences Award for Undergraduate Research: $250
32 Music and adherence in upper extremity home programs post-stroke
Joanna Eskander, Lauren Matthews
Other Author: Sarah Wallace
Senior | Occupational Therapy | Rangos School of Health Sciences
Faculty Advisor: Elena Donoso Brown, PhD, OTR/L

School of Nursing
School of Nursing Undergraduate Research Award: $250
91 Vocational Aspirations of Inner City School Girls
Julie Rothberg, Octavia Anderson and Bria Brodie
Senior | Nursing | School of Nursing
Faculty Advisor: Cathleen J. Appelt, PhD; Andrew T. Simpson, PhD; and Jessica Devido, PhD
Undergraduate Research and Scholarship Symposium
Award Winners 2017

University Academic Sustainability Committee
Excellence in Sustainability & the Environment: $250

**148 Is "Help", Helpful? Analyzing Foreign Aid in Context of Scale**
Catherine Hull
Senior | Information Systems Management & Accounting | A.J. Palumbo School of Business Administration
Faculty Advisor: Matt Ryan, Ph.D.

Excellence in Sustainability & the Environment: $250

**118 Vulnerable Populations, Mercer County, Pennsylvania**
Megan Winner
Senior | Sociology | McAnulty College and Graduate School of Liberal Arts
Faculty Advisor: Michael Irwin, Ph.D.