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Undergraduate Research and Scholarship Symposium

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2018-01-01

### Undergraduate Research & Scholarship Symposium Award Winners 2018

Office of Research

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# Undergraduate Research & Scholarship Symposium

## 2018 Award Winners

### **Bayer School of Natural and Environmental Sciences**

**Two for Excellence in Research in the Basic Sciences: \$300**

#### **Effect of charge parameterization on ONIOM activation enthalpies**

Laura Andreola

Bayer School of Natural and Environmental Sciences | Chemistry

Other Authors: Pathiraja, Inoka; Tamez, Angel; Firestine, Steven, M.

Faculty Advisor: Jeffrey Evanseck, Ph.D.

Abstract Number: 3

#### **Development of a Metal Ion Extraction Protocol for GSR in Blood Matrices with Analysis by SEMEDX**

Emma-Rae Ranger

Bayer School of Natural and Environmental Sciences | Biochemistry; Forensic Science and Law

Faculty Advisor: Michael Van Stipdonk, Ph.D.

Abstract Number: 15

#### **4 Honorable Mentions: \$100 each**

#### **Monitoring of Coqui frogs in Phipps Conservatory**

Kimberly Bischof

Bayer School of Natural and Environmental Sciences | Environmental Science

Other Authors: Sara McClelland

Faculty Advisor: Sarah Woodley, Ph.D.

Abstract Number: 10

#### **Anti-Inflammatory Drug-loaded Nanoemulsion Effect on Axonal Regeneration After Chronic Constriction Injury of the Sciatic Nerve**

Youngrim Lee

Bayer School of Natural and Environmental Sciences | Biology

Other Authors: Andrea Stevens, Muzamil Saleem, Jessica Goldstein, Leidy Echavarria, Alyssa

Brauckmann, Brooke Deal, Harley Bobnar, Jelena Janjic and John Pollock

Faculty Advisor: John Pollock, Ph.D.

Abstract Number: 66

#### **DNA Mixture Interpretation Using Kinship-Inferred Profiles Compared to Reference Profiles**

Erin Monko

Bayer School of Natural and Environmental Sciences | Forensic Science and Law

Faculty Advisor: Lyndsie Ferrara, M.S.

Abstract Number: 145

#### **A Computational Model of the Central Nucleus of the Amygdala during Bladder Pain**

Joshua Baktay

Bayer School of Natural and Environmental Sciences | Double major: B.S. Mathematics, B.A. Physics

Other Authors: Dr. Rachael Neilan, Marissa Behun, Dr. Benedict Kolber

Faculty Advisor: Rachel Neilan, Ph.D.

Abstract Number: 153

# Undergraduate Research & Scholarship Symposium

## 2018 Award Winners

### Center for the Catholic Faith and Culture

#### Center for Spiritan Studies

Common Good Research Award: Two awards, \$250 each

#### Addressing Dental Health Disparities through Community-Engaged Learning

Lauren Hensler

Rangos School of Health Sciences | Physician Assistant Studies

Faculty Advisor: Bridget Calhoun, DrPH, PA-C

Abstract Number: 55

#### Race-based Inequities in Maternal-Child Health in the Hill District

Sarah Timmons, Sarah Sullivan, Michelle Zheng

School of Nursing | Nursing

Faculty Advisors: Andrew Simpson, Ph.D., Jessica Devido, Ph.D., Cathy Appelt, Ph.D.

Abstract Number: 120

### Center for African Studies

Award for Undergraduate Research in African Studies: \$300

#### How do indigenous African practitioners describe the effectiveness of global partnerships with Western collaborators?

Alexandra Piora, Sara Weigand

Rangos School of Health Sciences | Occupational Therapy

Faculty Advisor: Anne Marie Hansen, Ph.D., Ed.D., OTR/L

Abstract Number: 151

Award for Undergraduate Research in Global Health: \$300

#### Barriers and Facilitators of Breastfeeding among Inner City African American Women

Sydney Cargill, Jazzlyn Horton

School of Nursing | Nursing

Faculty Advisors: Jessica Devido, Ph.D., Cathy Appelt, Ph.D., Andrew Simpson, Ph.D.

Abstract Number: 23

### Center for Teaching Excellence

Award for Undergraduate Research: \$250

#### Maymester Education: Trinidad

Isabella Boland

School of Education | Elementary Education

Faculty Advisor: Launcelot Brown, Ph.D.

Abstract Number: 18

### Center for Women's and Gender Studies

Award for Undergraduate Research: \$250

#### Barriers and Facilitators of Breastfeeding among Inner City African American Women

Sydney Cargill, Jazzlyn Horton

School of Nursing | Nursing

Faculty Advisors: Jessica Devido, Ph.D., Cathy Appelt, Ph.D., Andrew Simpson, Ph.D.

Abstract Number: 23

# Undergraduate Research & Scholarship Symposium

## 2018 Award Winners

### Classics Department

**Best Poster/Presentation: \$250**

#### **Music of Hildegard of Bingen**

Julia Cardinal

McAnulty College and Graduate School of Liberal Arts | Latin and History

Faculty Advisor: Sarah Miller, Ph.D.

Abstract Number: 22

### Gumberg Library

**Gumberg Library Award for Undergraduate Research: \$250**

#### **Baltimore: A Culture on a Loop**

Josh Schmader

McAnulty College and Graduate School of Liberal Arts | Psychology/Philosophy

Faculty Advisor: Andrew Simpson, Ph.D.

Abstract Number: 109

### Honors College

**Outstanding Poster: \$250**

#### **Life, Liberty, and the Pursuit of Health: An Ethical Approach to Non-Biological Disparities in Health Care.**

Christine DeAndrea

Rangos School of Health Sciences | Physician Assistant

Faculty Advisor: Bridget Calhoun, DrPH, PA-C

Abstract Number: 36

### History Department

**Clio Award for Undergraduate Research**

**First Place: \$200**

#### **The American Response to the French Revolution**

Adam Ruby

McAnulty College and Graduate School of Liberal Arts | History and Math

Faculty Advisor: Jotham Parsons, Ph.D

Abstract Number: 104

**Second Place: \$150**

#### **Market Time and Game Warden: The US Navy in Vietnam**

Zachary Ference

McAnulty College and Graduate School of Liberal Arts | History

Faculty Advisor: Andrew Simpson, Ph.D

Abstract Number: 43

**Third Place: \$100**

#### **Roger Sherman: Father of America**

Emily Ford

McAnulty College and Graduate School of Liberal Arts | Secondary Education/Social Studies and History

# Undergraduate Research & Scholarship Symposium

2018 Award Winners

Faculty Advisor: Jotham Parsons, Ph.D.

Abstract Number: 44

## Mary Pappert School of Music

**Mary Pappert School of Music Undergraduate Award: \$250**

### **The Inclusive Orchestra: Adapting String Instruments and Instruction for Musicians with Special Needs**

Eric Baker

Mary Pappert School of Music | Music Education and Music Performance

Faculty Advisor: Rachel Whitcomb, Ed. D

Abstract Number: 5

## McAnulty College and Graduate School of Liberal Arts

**Outstanding Research Merit: \$250**

### **The Perceptions of U.S. Citizens Towards the Adoption of Russian Children**

Kristina Celeste

McAnulty College and Graduate School of Liberal Arts | International Relations

Other Authors: I would like to acknowledge Dr. John Le Beau, who has provided additional mentorship.

Faculty Advisor: Megan Overby, Ph.D.

Abstract Number: 26

## Office of the Provost

**Outstanding Scholarship Award: \$150**

### **Nuking Nuclear: The Reality of the American Family in Advertising Today**

Brittney Lybarger

McAnulty College and Graduate School of Liberal Arts | Integrated Marketing Communications, Digital Media Arts, Business Management

Faculty Advisor: Dr. Emad Mirmotahari

Abstract Number: 72

**Best Poster: \$150**

### **Sinister Disney Villains: Do Animated Films use Spatial Biases to Manipulate Our Emotions?**

Kaylee Mahon, Elana Mcgraw

McAnulty College and Graduate School of Liberal Arts | Psychology

Faculty Advisor: Alex Kranjec, Ph.D

Abstract Number: 75

**Best Formal Presentation: \$150**

### **Localized Drug Delivery of Aspirin to Stent Sites Via Self-Assembled Monolayers**

Angelo Miskalis

Bayer School of Natural and Environmental Sciences | Biomedical Engineering

Other Authors: Tell M. Lovelace, Ashley M. Blystone, Benjamin S. Goldschmidt, Ellen S. Gawalt

Faculty Advisor: Ellen Gawalt, Ph.D

Abstract Number: 86

# Undergraduate Research & Scholarship Symposium

2018 Award Winners

## Office of Research

Video Competition Award: \$150

### Shepherd's Heart: Giving Veterans More Than a Home

By: Maggie Hyland, Marissa Augustine, Moira Miller

Rangos School of Health Sciences

Faculty Advisor: Amy Mattila, Ph.D., OTR/L

Abstract Number: 57

2 Runners Up: \$150

### Food Deserts in Pittsburgh

By: Alexis Papay

Rangos School of Health Sciences

Faculty Advisor: Bridget Calhoun, Ph.D., PA-C

### Nuking Nuclear: The Reality of the American Family in Advertising Today

By: Brittney Lybarger

A.J. Palumbo School of Business Administration, McAnulty College of Liberal Arts

Faculty Advisor: Emad Mirmotahari, Ph.D.

Abstract Number: 72

## Office of Diversity and Inclusion

Outstanding Undergraduate Research: \$250

### **Race-based Inequities in Maternal-Child Health in the Hill District**

Sarah Timmons, Sarah Sullivan, Michelle Zheng

School of Nursing | Nursing

Faculty Advisors: Andrew Simpson, Ph.D., Jessica Devido, Ph.D., Cathy Appelt, Ph.D.

Abstract Number: 120

## Office of Disability Services

Outstanding Undergraduate Research: \$250

### **Therapeutic Play Mat for the Improvement of Floor Mobility in Children with Low Motor Function**

Gretchen Pratt, Jacqueline Matz

Biomedical Engineering

Faculty Advisor: Benjamin Goldschmidt, Ph.D.

Abstract Number: 97

## Phi Kappa Phi, National Honors Society

3 Awards: \$250

### **Documenting Knowledge and Disclosure of Medical Errors by Physician Assistants in Pennsylvania**

Tara Ferguson

Rangos School of Health Sciences | Physician Assistant

Faculty Advisor: Bridget Calhoun, DrPH, PA-C

Abstract Number: 136

### **To cheat or not to cheat, that is the question: Establishing a taxonomy of cheating in life and sports**

Lauren Hutchison, Mark Williams

McAnulty College and Graduate School of Liberal Arts | Psychology

# Undergraduate Research & Scholarship Symposium

2018 Award Winners

Faculty Advisor: Alex Kranjec, Ph. D.

Abstract Number: 56

## **How do Big Pharmaceutical Companies Impact the U.S. Economy: Case Studies of Pfizer and Amgen from 2013-2017**

Erin Lexner

School of Pharmacy and the Graduate School of Pharmaceutical Sciences | Pharmacy

Faculty Advisor: Kathleen Roberts, Ph.D

Abstract Number: 67

## **Rangos School of Health Sciences**

**2 for Rangos School of Health Sciences Award for Undergraduate Research: \$250**

### **Diversion of medications among college students enrolled in a faith-based, private, urban university**

Ana Brandt

Rangos School of Health Sciences | Physician Assistant Studies

Faculty Advisor: Bridget Calhoun, DrPH, PA-C

Abstract Number: 19

### **A Comparison of Computerized and Paper and Pencil versions of the MoCA**

Mackenzie Rodgers, Caroline Agostino, Mary Rose Zoeckler

Rangos School of Health Sciences | Occupational Therapy

Other Authors: Sarah Wallace, Ph.D., Richard Simpson, Ph.D., Alexander Kranjec, Ph.D., Kristin D'Acunto, MPA, Elena Donoso Brown, Ph.D.

Faculty Advisor: Elena Donoso Brown, Ph.D.

Abstract Number: 103

## **School of Nursing**

**School of Nursing Undergraduate Research Award: \$250**

### **Evidence Based Practice Project to Prevent Central Line Associated Bloodstream Infections**

Caroline Hanlon, Rachel Mettee, Brittany Hopper

School of Nursing | Nursing

Faculty Advisor: Melanie Turk, Ph.D, RN

Abstract Number: 50

## **School of Pharmacy**

**Award for Undergraduate Research: \$250**

### **Safety and efficacy evaluation of as-needed intravenous antihypertensive utilization in non-ICU patients**

Andrew Bever, Brianna Cauley, Rachel Hoffman, Noah Palmieri

School of Pharmacy and the Graduate School of Pharmaceutical Sciences | Pharmacy

Faculty Advisor: Branden Nemecek, Pharm.D.

Abstract Number: 7

## **University Academic Sustainability Committee**

**Excellence in Sustainability & the Environment: \$250**

### **Belizean Culture: Medicine, Animals, and Ecotourism**

Morgan Martinson, Kathryn Wiegartner, Abigail Slezak

School of Pharmacy and the Graduate School of Pharmaceutical Sciences | Pharmacy

# Undergraduate Research & Scholarship Symposium

2018 Award Winners

Faculty Advisor: Michael Irwin, Ph.D.

Abstract Number: 144

**Honorable Mention: \$125**

**Food Deserts: Food is the Problem and the Answer**

Emily Zobian

Rangos School of Health Sciences | Health Management Systems/ Pre-Med

Faculty Advisor: Kathleen Roberts, Ph.D.

Abstract Number: 130

**Businesses Benefit from Sustainability**

Samuel Marchewka

A.J. Palumbo School of Business Administration | Finance/Economics

Faculty Advisor: Kathleen Roberts, Ph.D.

Abstract Number: 143