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Undergraduate Research and Scholarship Symposium

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Undergraduate Research & Scholarship Symposium Award Winners 2018

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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