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Undergraduate Research & Scholarship Symposium Award Winners 2018

Office of Research

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**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
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
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

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
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
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
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