

Graduate and Postdoctoral Research Symposium

March 3, 2020



WAYNE STATE
Graduate School



WARRIOR STRONG



Graduate and Postdoctoral Research Symposium

Student Center Building, 5221 Gullen Mall 2nd Floor

Event Agenda

8:00-8:45 am	Session 1 Presenters Set Up Posters <i>Ballroom</i>
8:45-9:00 am	Welcome and Opening Remarks <i>Ballroom</i>
9:00-10:45 am	Poster Session 1 <i>Ballroom</i>
10:45-11:00 am	Session 2 Presenters Set Up Posters <i>Ballroom</i>
11:00-11:45 am	Lunch <i>Hilberry A, B, C & 285 (overflow seating)</i>
12:00-1:45 pm	Poster Session 2 <i>Ballroom</i>
1:45-2:45 pm	3MT Presentation and Judging <i>Hilberry A, B, C</i>
2:45-3:45 pm	Panel Discussion <i>Hilberry A, B, C</i>
3:45-4:30 pm	Awards Ceremony <i>Hilberry A, B, C</i>

Poster Session I

1. Abesinghe Arachchige, Anuththara (Doctoral Student)

Department of Chemistry

Abstract Title: Atomic Layer Deposition of Titanium Nitride Films: Synthesis and Characterization of Thermally Stable Titanium Precursors

Advisor: Charles H. Winter

2. Alhammad, Lama (Doctoral Student)

Department of Economics

Abstract Title: Health Expenditure, Tobacco Use and Mortality of Cancer in Five Developed Countries (US, Japan, Norway, Sweden, Netherlands) during the period (1997-2016)

Advisor: Allen Goodman

3. Al-Homoudi, Abdullah (Master's Student)

Department of Biochemistry and Molecular Biology

Abstract Title: Generation of Neural Stem Cells (NSCs) from Human Fibroblasts using QQ-Sox2 and QQ-NeuroD1 Proteins.

Advisor: JianJun Wang

4. Alnabbat, Khadijah (Doctoral Student)

Department of Nutrition & Food Science

Abstract Title: The Relationship between Excessive Folic Acid Intake and Genome Instability in Human Lymphocytes of Healthy Adults.

Advisor: Ahmad Heydari

5. Alsharif, Walid (Postdoctoral Scholar)

Department of Psychiatry and Behavioral Neurosciences

Abstract Title: The Effects of Low and High Cocaine Intake on HDACs Class IIa Expression-activity in Nucleus Accumbens and Hippocampus of Rats Using [18F]TFAHA PET/CT Imaging. Walid F. Alsharif, Arman Harutyunyan, Swatabdi Kamal, Juri G. Gelovani, Shane A. Perrine.

Advisor: Shane Perrine

6. Alzhrani, Rami (Doctoral Student)

Department of Pharmacy

Abstract Title: Dual Targeted Nanoparticles for Pancreatic Ductal Adenocarcinoma Imaging and Therapy

Advisor: Rami Alzhrani

7. Andrade, Rafael (Doctoral Student)

Department of Chemistry

Abstract Title: Novel Substrates of Histone Deacetylase 8 Identified with Proteomics-based Substrate Trapping

Advisor: Mary Kay Pflum

8. Avramenko, Aleksandr (Doctoral Student)

Department of Chemistry

Abstract Title: Controlling the non-radiative decay rate of a light-harvesting molecule through cavity polariton formation.

Advisor: Aaron Rury

9. Bae, Minjun (Master's Student)

Department of Mechanical Engineering

Abstract Title: Integrated Metallic Nanostructure Arrays as A Current Collector for Highly Stable Lithium-Metal Anodes

Advisor: Da Deng

10. Barrabi, Cesar (Doctoral Student)

Department of Physiology

Abstract Title: The ER co-chaperone JB11 is critical for insulin biogenesis in Pancreatic β cells

Advisor: Xuequn Chen

11. Bass, Dwana (Master's Student)

Department of Nursing

Abstract Title: The State of Science Regarding Firearm Injury in Older Adults With Dementia: A Literature Review

Advisor: Debra Schutte, PhD, RN

12. Batugedara, Tharanga (Doctoral Student)

Department of Chemistry

Abstract Title: Evaluation of the intrinsic electrocatalytic activity of Ni₂-xRh_xP nanoparticles for hydrogen evolution reaction

Advisor: Stephanie L. Brock

13. Bezerra Medeiros de Lima, Juliana (Postdoctoral Scholar)

Department of Biological Sciences

Abstract Title: The Role Of Hypothalamic Growth Hormone Receptor-expressing Neurons in Glucose Metabolism and Energy Homeostasis

Advisor: Marianna Sadagurski

14. Bickerstaff, Paige (Master's Student)

Department of Kinesiology

Abstract Title: Exploring the dosage of school-based yoga program on social emotional outcomes in youth population ages 7 through 13: a pilot study

Advisor: Jeanne Barcelona

15. Bode, Bree (Doctoral Student)

Department of Kinesiology

Abstract Title: The Influence of Marketing on Food Choice

Advisor: Rachael Dombrowski

16. Broman, Michael (Doctoral Student)

Department of Social Work

Abstract Title: Prescription Opioids Are Rarely Stored Securely: Predictors of Improper Storage Practices and Next Steps

Advisor: Stella Resko

17. Campbell, Rebecca (Doctoral Student)

Department of Psychology

Abstract Title: Context Matters: Psychosocial and Financial Insecurity Factors in Financial Exploitation

Advisor: Peter Lichtenberg

- 18. Carter, Jenna (Doctoral Student)**
Department of Cancer Biology
Abstract Title: Novel Impiridone Chemotherapy Enhances Anti-leukemic Activity of BCL-2 Inhibitor in Acute Myeloid Leukemia
Advisor: Yubin Ge
- 19. Churakova, Yulia (Doctoral Student)**
Department of Kinesiology
Abstract Title: Exercise and Neuro Activity in Older Women
Advisor: Jeanne Barcelona
- 20. Conlin, Renae (Doctoral Student)**
Department of Physics
Abstract Title: Muonium-antimuonium Oscillations in Effective Field Theory
Advisor: Alexey Petrov
- 21. Das, Anindita (Doctoral Student)**
Department of Biological Sciences
Abstract Title: PAK1 Signals the Maturation of Invadopodia and Enhancement of Cancer Invasion in Response to Mechanical Stimulation
Advisor: Karen Beningo
- 22. DeBusschere, Sean (Master's Student)**
Department of Biomedical Engineering
Abstract Title: Optimized Monte Carlo Simulations for modeling Optical Coherence Tomography
Advisor: Kamran Avanaki
- 23. Detzler, Matthew (Master's Student)**
Department of Finance
Abstract Title: Angst and Excitement in the Coming Age of Automation and Big Data: A benchmark quantitative survey on social attitudes towards automation and privacy.
Advisor: Melisa Sweda
- 24. Ding, Jiahui (Postdoctoral Scholar)**
Department of Medicine
Abstract Title: Identification and characterization of placental ISG20 as a critical mediator of IFN-beta response to ZIKA viral infection
Advisor: Gil Mor
- 25. Dubaisi, Sarah (Postdoctoral Scholar)**
Department of Molecular Genetics and Genomics
Abstract Title: Inter-ethnic variation in response to environmental exposures
Advisor: Francesca Luca
- 26. Ekhtator, Kate (Doctoral Student)**
Department of Civil Engineering
Abstract Title: Quality and Quantity Management, Mapping and Messaging of Stormwater Contamination Issues in Detroit.
Advisor: Carol Miller

- 27. Emakhu, Joshua (Doctoral Student)**
Department of Industrial Engineering
Abstract Title: Failure Type Prediction in Software-related Medical Device Recalls
Advisor: Leslie Monplaisir
- 28. Farr, Dustin (Doctoral Student)**
Department of Immunology and Microbiology
Abstract Title: Neutrophil Responses to *Vibrio cholerae* Infection in the Zebrafish Model
Advisor: Jeffrey Withey
- 29. Feeley, Brooke (Doctoral Student)**
Department of Biological Sciences
Abstract Title: Phosphorylation in the DNA binding domain of a transcriptional regulator prevents *Myxococcus xanthus* biofilm formation
Advisor: Penelope I. Higgs
- 30. Findley, Anthony (Doctoral Student)**
Department of Molecular Genetics and Genomics
Abstract Title: Cell-type, environmental, and stochastic factors modulate genetic effects on gene transcription and splicing.
Advisor: Roger Pique-Regi and Francesca Luca
- 31. Gajan, Ambikai (Postdoctoral Scholar)**
Department of Cancer Biology
Abstract Title: Transcriptome analysis reveals a critical role for Rad6B in beta-catenin activation and melanoma cell reprogramming
Advisor: Malathy Shekhar
- 32. Gaulden, Andrew (Doctoral Student)**
Department of Translational Neuroscience Program
Abstract Title: Fentanyl is Differentially Rewarding in Male and Female Rats
Advisor: Shane Perrine
- 33. Gleason, Noah (Master's Student)**
Department of Pharmaceutical Sciences
Abstract Title: Acyl Carrier Protein as a Potential Driver for the Mitochondrial Fe-S Cluster Bioassembly Machinery
Advisor: Timothy Stemmler
- 34. Goletz, Jessica (Doctoral Student)**
Department of Psychology
Abstract Title: Associations of Proximal and Temporally-Distal Contextual Factors with Mothers and Fathers Perceived Social Support During Pregnancy.
Advisor: Marjorie Beeghly
- 35. Govindarajan, Barani (Doctoral Student)**
Department of Pathology
Abstract Title: Phosphatidylinositol 4-Kinase III? function in Prostate cancer cells.
Advisor: Sreenivasa Chinni

- 36. Grass, Amanda (Doctoral Student)**
Department of Chemistry
Abstract Title: Synthesis, Characterization, and Reactivity of Cobalt Carbene Complexes Towards Diazoalkanes in Bulky Bis(alkoxide) Ligand Environments
Advisor: Stanislav Groysman
- 37. Gurusingha, Harshani Sewvandi (Doctoral Student)**
Department of Chemistry
Abstract Title: Developing Inhibitors of UCHL5 Deubiquitinase in the Proteasome
Advisor: Prof. Young-Hoon Ahn
- 38. Han, Xiangfei (Doctoral Student)**
Department of Chemical Engineering
Abstract Title: Micelles with ultralow critical micelle concentration as carriers for drug delivery
Advisor: Zhiqiang Cao
- 39. Haralambis, Maria (Master's Student)**
Department of Kinesiology
Abstract Title: Effect of Pilates Technique on Balance in Dancers: A Biomechanical Analysis of Balance
Advisor: Qin Lai
- 40. Hedden, Bethany (Doctoral Student)**
Department of Social Work and Anthropology
Abstract Title: Racial disparities in access to, and utilization of, jail- and community-based mental health treatment
Advisor: Erin Comartin
- 41. Hewa Rahinduwege, Chathuranga Chinthana (Doctoral Student)**
Department of Chemistry
Abstract Title: Cadmium Sulfide Quantum Dot Electrogels for High-Performance Nitrogen Dioxide Gas Sensors
Advisor: Long Luo
- 42. Hinton, Tiara (Doctoral Student)**
Department of Pharmaceutical Sciences
Abstract Title: Biophysical and structural characterization of the Drosophila melanogaster Fe-S cluster scaffold assembly protein DIsu and its dynamic properties
Advisor: Timothy Stemmler
- 43. Hu, Anna (Master's Student)**
Department of Physiology
Abstract Title: Combined Quantitative Proteomics and Lipidomics Studies of Pancreatic Beta Cell under Prolonged High Glucose Treatment
Advisor: Xuequn Chen
- 44. Hunt, Darrin (Doctoral Student)**
Department of Biological Sciences
Abstract Title: Common reed management as a model for sustainable, community-led invasive species solutions in urban parks.
Advisor: Donna Kashian

- 45. Ishag-Osman, Esmat (Doctoral Student)**
Department of Political Science
Abstract Title: How Primary Election Systems Affect Candidate Emergence: A Look at U.S. House Congressional Races from 2000-2016
Advisor: Jeff Grynaviski
- 46. Jayabahu Arachchilage, Harshani (Doctoral Student)**
Department of Chemistry
Abstract Title: Thermally Stable Silver Pyrazolate precursors for the Development of Silver Metal Atomic Layer Deposition Processes
Advisor: Charles Winter
- 47. Jayarathne, Hashan (Doctoral Student)**
Department of Biological Sciences
Abstract Title: Sex hormones underlying age-associated neuroinflammation
Advisor: Marianna Sadagurski
- 48. Jiang, Yanping (Postdoctoral Scholar)**
Department of Psychology
Abstract Title: Which aspects of socioeconomic status matter for metabolic syndrome among elderly African Americans in Detroit?
Advisor: Samuele Zilioli
- 49. Jog, Ruta (Doctoral Student)**
Department of Pathology
Abstract Title: Hormonal Regulation of Glycine Decarboxylase and its Impact on Cellular Physiology
Advisor: Todd Leff and Jian Wang
- 50. Johnson, Sean (Doctoral Student)**
Department of Pharmacology
Abstract Title: Ataxia 3 Toxicity: Lessons from Protein Context and Folding Machinery
Advisor: Sokol Todi
- 51. Jorgensen, Kelsey (Doctoral Student)**
Department of Anthropology
Abstract Title: Migration patterns of ancient human potato-grower populations in the Peruvian Andes using co-evolutionary insect genetics
Advisor: Julie Lesnik
- 52. Kalpage, Hasini (Doctoral Student)**
Department of Molecular Genetics and Genomics
Abstract Title: Role of serine phosphorylation of cytochrome c in brain ischemia/reperfusion injury
Advisor: Maik Hüttemann
- 53. Kasturi Rangan, Keshav (Doctoral Student)**
Department of Chemical Engineering
Abstract Title: Lyapunov-Based Economic Model Predictive Control using Taylor Series Approximations and Error Determination
Advisor: Helen E. Durand

54. Keshavarz, Saeed (Doctoral Student)

Department of Electrical Engineering

Abstract Title: High performance STM circulator for full duplex communication systems

Advisor: Dimitrios Sounas

55. Kithulgoda Gamage, Aparni (Doctoral Student)

Department of Chemistry

Abstract Title: Identification of kinase substrates and interactors using Kinase-catalyzed CrossLinking and Immunoprecipitation (K-CLIP).

Advisor: Mary Kay Pflum

56. Knoff, Kathryn (Doctoral Student)

Department of Kinesiology

Abstract Title: Evaluating the "Baby Bundle" Resource Program: New Parent Needs in a Low-Income Urban Community

Advisor: Noel Kulik

57. Koshko, Lisa (Master's Student)

Department of Biological Sciences

Abstract Title: The Effects of Gestational Benzene Exposure on Metabolic Reprogramming in Adulthood

Advisor: Marianna Sadagurski

58. Lotvola, Aaron (Doctoral Student)

Department of Cancer Biology

Abstract Title: Differential gene expression associated with depigmentation during acquired resistance to immune checkpoint inhibitors in B16 melanoma

Advisor: Heather Gibson

59. Luong, Vu (Master's Student)

Department of Political Science

Abstract Title: Democracy of The Visegrad Four In Post-Authoritarian Era

Advisor: Kevin Deegan-Krause

60. Lynch, Samantha (Doctoral Student)

Department of Curriculum and Instruction

Abstract Title: A Phenomenography of Elementary Pre-Service Teachers' Meaning-Making of Inquiry- Learning of Earth Science Concepts: Documenting Via Top-Hat, a Virtual Platform

Advisor: Jazlin Ebenezer

61. Maleki Varnosfaderani, Shiva (Doctoral Student)

Department of Electrical Engineering

Abstract Title: Software and Hardware Development for Epileptic Seizure Prediction using Deep Learning Techniques

Advisor: Mohamad Alhawari

62. Manwar, Rayyan (Postdoctoral Scholar)

Department of Biomedical Engineering

Abstract Title: An Adaptive Signal Enhancement Technique for Low-Cost Linear Array Photoacoustic Computed Tomography

Advisor: Kamran Avanaki

- 63. Martin, Carly (Doctoral Student)**
Department of Cancer Biology
Abstract Title: Characterization and Targeting of TMPRSS13 in Breast Cancer
Advisor: Karin List
- 64. Mays, Elizabeth (Doctoral Student)**
Department of Biomedical Engineering
Abstract Title: Macrophage mediated growth factor release from gelatin microspheres
Advisor: Harini Sundararaghavan
- 65. McShan, Keith (Doctoral Student)**
Department of Kinesiology
Abstract Title: Antecedents to High School Strength and Conditioning Coaches? Task-involving Climate Development
Advisor: E. Whitney Moore
- 66. Mitra, Anindita (Doctoral Student)**
Department of Biological Sciences
Abstract Title: SIN3 isoforms differentially regulate energy metabolism and cell survival
Advisor: Lori Pile
- 67. Moeini, Mohammad Moein (Doctoral Student)**
Department of Computer Engineering
Abstract Title: Image Processing with the Speed of Light!
Advisor: Dimitrios Sounas
- 68. Mohammadi, Ashkan (Doctoral Student)**
Department of Mathematics
Abstract Title: Parabolic Regularity in Constrained Optimization
Advisor: Boris Mordukhovich
- 69. Morse, Paul (Doctoral Student)**
Department of Molecular Genetics and Genomics
Abstract Title: Photobiomodulation of Mitochondria efficiently limits ROS and reduces Tissue Injury after Stroke
Advisor: Maik Huettemann
- 70. Nguyen, Nhu (Doctoral Student)**
Department of Mathematics
Abstract Title: General Nonlinear Stochastic Systems Motivated by Chemostat Models: Complete Characterization of Long-Time Behavior, Optimal Controls, and Applications to Wastewater Treatment
Advisor: George Gang Yin
- 71. Nguyen, Hang (Doctoral Student)**
Department of Mathematics
Abstract Title: Second-order variational analysis in second-order cone programming
Advisor: Boris Mordukhovich

72. O'Leary, Brendan (Doctoral Student)

Department of Civil Engineering

Abstract Title: Evaluating neighborhood-scale urban groundwater in Detroit, MI.

Advisor: Carol Miller

73. Pan, Bo (Postdoctoral Scholar)

Department of Physiology

Abstract Title: Disrupted spermatogenesis and male infertility in Far1 knockout mice: a new model for rhizomelic chondrodysplasia punctata

Advisor: Xuequn Chen

74. Pasman, Emily (Doctoral Student)

Department of Social Work

Abstract Title: Reducing the Burden of the Opioid Crisis: Willingness to Use Syringe Service Programs and Safe Consumption Sites in a Rural Michigan Community

Advisor: Stella Resko

75. Pedder, Christine (Doctoral Student)

Department of Kinesiology

Abstract Title: Teacher Self-efficacy as it Relates to Implementation of Classroom Physical Activity; A Study in Conjunction with Dearborn SHINES for Healthy Kids!

Advisor: Jeanne Barcelona

76. Pimentel, Julio (Doctoral Student)

Department of Cancer Biology

Abstract Title: PP2A inhibition overcomes TRAIL resistance in triple-negative breast cancer cells

Advisor: Gen Sheng Wu

77. Piqueiras, Eduardo (Doctoral Student)

Department of Anthropology

Abstract Title: I Just Want to Get Back to Normal: Neglect and Recovery of Post-Treatment Legionnaires Disease Survivors

Advisor: Mark Luborsky

78. Qian, Hongjiang (Doctoral Student)

Department of Mathematics

Abstract Title: Numerical Solutions for Stochastic Differential Equations with Varying Truncation Bounds

Advisor: George Yin

79. Raihen, Md Nurul (Doctoral Student)

Department of Mathematics, Applied

Abstract Title: Modeling Player Chemistry in Sports Matches

Advisor: Kazuhiko Shinki

80. Ramanayake-Mudiyanselage, Vindya (Doctoral Student)

Department of Chemistry

Abstract Title: K-BMAPS: A Tool to Map Kinase-dependent Dynamic Signaling Pathways.

Advisor: Mary Kay Pflum

81. Rauf, Mohd (Postdoctoral Scholar)

Department of Basic Medical Sciences

Abstract Title: Hypoxia penetrating ultra-small nanoparticle for anti-cancer effect in Glioblastoma

Advisor: Arun K. Iyer

82. Rochon, Daniel (Master's Student)

Department of Political Science

Abstract Title: Assuring the survival and success of liberty: An Assessment of the Influence of International, Bureaucratic, and Domestic Politics on US Grand Strategy

Advisor: Fred Pearson

83. Rodriguez, Jacqueline (Doctoral Student)

Department of Psychology

Abstract Title: Rumination links Negative Family Interactions to Poor Sleep Quality among Older African American Adults

Advisor: Samuele Zilioli

84. Roth, Katherine (Postdoctoral Scholar)

Department of Pharmacology

Abstract Title: Exposure to a mixture of legacy and emerging Per- and polyfluoroalkyl substances (PFAS) modulates lipid homeostasis

Advisor: Michael Petriello

85. Ruiz Rizzo, Adriana (Postdoctoral Scholar)

Department of Psychology

Abstract Title: Is recognizing a tree more difficult than recognizing a forest? ? Scenes? Object load modulation of memory recognition in healthy older adults

Advisor: Jessica S. Damoiseaux

86. Saavedra, Juan (Master's Student)

Department of Music

Abstract Title: The Imagery of Musical Conducting: Sketches of a Genealogy and an Image Atlas

Advisor: Joshua Duchan

87. Sajid, Aamna (Master's Student)

Department of Public Health

Abstract Title: An Analysis of Barriers To Clean Water Accessibility and Affordability in Detroit Communities of Low SES and Correlated Health Outcomes

Advisor: Kimberly Campbell-Voytal

88. Senanayake, Nawalage Dona Judy (Doctoral Student)

Department of Biomedical Engineering

Abstract Title: Effect of Electrospun Hyaluronic acid-Carbon Nanotube Nanofiber Alignment on Schwann Cells

Advisor: Harini Sundararaghavan

89. Shahab, Monazza (Doctoral Student)

Department of Pharmacology

Abstract Title: Cisplatin-Induced Loss of Hair Cells in Zebrafish Neuromasts is Accompanied by Protein nitration and Degradation of LMO4

Advisor: Samson Jamesdaniel

90. Shukla, Meghna (Doctoral Student)

Department of Nursing

Abstract Title: Translating an Efficacious Illness Management Intervention for Youth with Poorly Controlled Asthma to Real World Settings

Advisor: Wanda Gibson-Scipio

91. Sirikkathuge, Nilanka (Doctoral Student)

Department of Chemistry

Abstract Title: Synthesis of Volatile and Thermally Stable Aluminum Hydride Atomic Layer Deposition Precursors for Aluminum Metal Films

Advisor: Charles Winter

92. Smith, Valerie (Doctoral Student)

Department of Kinesiology

Abstract Title: Internal Load In Football Players: Can The Mind See What The Heart Says?

Advisor: Tamara Hew-Butler

93. Su'a, Tepora (Doctoral Student)

Department of Chemistry

Abstract Title: Synthesis of complex FeCo_{1-x}Ni_xP nanoparticles: predictive insights from relative reactivity of binary and ternary systems

Advisor: Stephanie Brock

94. Sweidan, Wafaa (Doctoral Student)

Department of Translational Neuroscience

Abstract Title: Investigating cortical microstructure in Parkinson disease patients non-invasively using diffusion magnetic resonance imaging

Advisor: Jeffrey Stanley

95. Taghizadeh, Elham (Doctoral Student)

Department of Industrial Engineering

Abstract Title: Deep-Tier Automotive Supply Network Resilience Management

Advisor: Ratna Babu Chinnam

96. Tarchick, John (Doctoral Student)

Department of Economics

Abstract Title: Forecasting Directional Changes in Exchange Rates

Advisor: Liang Hu

97. Trexler, Micaela (Doctoral Student)

Department of Biomedical Engineering

Abstract Title: Advanced Label-Free Phenotypic Detection, Diagnosis, and Characterization of Influenza Virus using Tip Enhanced Raman Spectroscopy and Machine Learning Classification

Advisor: Gregory Auner

98. Vang, Luxie (Master's Student)

Department of Social Work

Abstract Title: Assessing Poverty, Social and Family Support, and Resiliency Factors for Youth Involved in the Juvenile Justice System in Detroit, Michigan

Advisor: Richard Smith

99. Vensko, Taylor (Master's Student)

Department of Immunology and Microbiology

Abstract Title: Human Cytomegalovirus Induced Cytoplasmic Reorganization in a Three-Dimensional Cell-Based Model

Advisor: Philip Pellett

100. Viviano, Raymond (Doctoral Student)

Department of Psychology

Abstract Title: Longitudinal Change in Brain Region Functional Integration in Subjective Cognitive Decline

Advisor: Jessica Damoiseaux

101. Vossoughi, Amin (Doctoral Student)

Department of Chemical Engineering

Abstract Title: Mesenchymal Stem cells Microcapsules for Osteoarthritis

Advisor: Howard Matthew

102. Weeraratne, A. D. K. Isuri (Doctoral Student)

Department of Chemistry

Abstract Title: Corrosion Mitigation Using Films of Redox-innocent Metallosurfactants

Advisor: Claudio Verani

103. Wentz, Chandler (Doctoral Student)

Department of Kinesiology

Abstract Title: The Relationship Among Early Functional Milestones and Core Deficits in Autism Spectrum Disorder

Advisor: Leah Ketcheson

104. Willis, Tamarie (Doctoral Student)

Department of Social Work

Abstract Title: In the best interest of the child: State level family preservation advocacy and legislation in reaction to the Adoptions and Safe Families Act

Advisor: Erin Comartin

105. Xu, Qiuyun (Doctoral Student)

Department of Biomedical Engineering

Abstract Title: Study of variation of attenuation coefficient in different skin types and age groups using optical coherence tomography

Advisor: Kamran Avanaki

106. Yap, Yi Tian (Doctoral Student)

Department of Physiology

Abstract Title: Cross-talk between Intraflagellar transport and intramanchette transport, two cargo transport systems essential for mammalian sperm flagella formation

Advisor: Zhibing Zhang

107. Yin, Peimeng (Postdoctoral Scholar)

Department of Mathematics, Applied

Abstract Title: Finite element method for Laplace equation in two-dimensional domains with a singular fracture

Advisor: Hengguang Li

108. Zhang, Qian (Doctoral Student)

Department of Mathematics

Abstract Title: Curl-curl conforming finite elements and their applications to the quad-curl problems.

Advisor: Zhimin Zhang

109. Stanley, Erin (Doctoral Student)

Department of Social Work and Anthropology

Abstract Title: In- or Interdependence? Lessons Learned through Team Science.

Advisor: Richard Smith

Poster Session II

1. Adewale, Adeleye (Doctoral Student)

Department of Chemistry

Abstract Title: The proximal region of N2A titin's N-terminal influences its interaction with SMYD2

Advisor: Young-Hoon Ahn

2. Alharbi, Majed (Doctoral Student)

Department of Pharmaceutical Sciences

Abstract Title: Protein Ubiquitination Profile of Primary Human Skeletal Muscle Cells

Advisor: Zhengping Yi

3. Aljahni, Mohammed (Doctoral Student)

Department of Kinesiology

Abstract Title: Effects of External and Internal Attentional Focus on Fractionated Reaction Time on the Lower Extremity

Advisor: Qin Lai

4. Alosaimy, Sara (Postdoctoral Scholar)

Department of Pharmacy

Abstract Title: Impact of Vancomycin Area Under Curve on Persistent Methicillin-Resistant Staphylococcus aureus (MRSA) Bloodstream Infections (BSI)

Advisor: Michael Rybak

5. Al-tweej, Sahar (Master's Student)

Department of Counseling Psychology

Abstract Title: The Corporatization of Mental Health Service: is a Business Model Conducive to Treating Mental Illness?

Advisor: Francesca Pernice

6. Amarasekara, Nirosha (Doctoral Student)

Department of Nutrition & Food Science

Abstract Title: Quantification of antimicrobial resistance in locally-grown fresh produce

Advisor: Yifan Zhang

7. Anne J. MacNeil, Ahmad Al-Bacha, Narsees Awaily, Anne J. MacNeil, Ahmad Al-Bacha, Narsees Awaily (Master's Student)

Department of Public Health

Abstract Title: Does individual perception of nature predict physical activity levels in adult Detroiters?

Advisor: Amber Pearson

8. Ayodeji, Saheed (Doctoral Student)

Department of Chemistry

Abstract Title: Connecting Metabolism and Non-Alcoholic Fatty Liver Disease via glucose-driven modification of ATGL

Advisor: Charlie Fehl

9. Banerjee, Soumyanil (Doctoral Student)

Department of Computer Science

Abstract Title: Deep Relational Reasoning for the Prediction of Language Impairment and Postoperative Seizure Outcome Using Preoperative DWI Connectome Data of Children with Focal Epilepsy.

Advisor: Ming Dong

10. Basij, Maryam (Doctoral Student)

Department of Biomedical Engineering

Abstract Title: Development of an endoscopic array ultrasound and Photoacoustic for cervical tissue imaging

Advisor: Mohammad Mehrmohammadi

11. Batelu, Sharon (Doctoral Student)

Department of Pharmaceutical Sciences

Abstract Title: Molecular & Mechanistic Details of a High Redox Potential Ferredoxin Involved in Mitochondrial Fe-S Cluster Assembly.

Advisor: Timothy Stemmler

12. Berezovsky, Artem (Doctoral Student)

Department of Cancer Biology

Abstract Title: Platelet Derived Growth Factor Receptor Alpha Oncogene Dependency in Glioblastoma

Advisor: Ana deCarvalho

13. Bhise, Ketki (Doctoral Student)

Department of Pharmaceutical Sciences

Abstract Title: Serum Albumin-Binding Nanoparticles for Hypoxia Mediated Delivery to Triple Negative Breast Cancer

Advisor: Arun Iyer

14. Blount-Pacheco, Jessica (Doctoral Student)

Department of Pharmacology

Abstract Title: Untangling the toxicity of unanchored poly-ubiquitin

Advisor: Sokol Todi

15. Burl, Rayanne (Doctoral Student)

Department of Molecular Genetics and Genomics

Abstract Title: Deconstructing in vivo Adipogenesis with Single Cell Expression Profiling

Advisor: James Granneman

16. Cao, Tianxin (Doctoral Student)

Department of Physiology

Abstract Title: A Novel Function of the Poly-Glutamic Acid Segment of Insect Troponin T Tested in Mouse Heart for Improving Cardiac Efficiency

Advisor: Jian-Ping Jin

17. Chen, Gui (Doctoral Student)

Department of Electrical Engineering

Abstract Title: Impacts of the skull on transcranial brain imaging

Advisor: Kamran Avanaki

18. Cobb, Jamie (Doctoral Student)

Department of Communication

Abstract Title: The Complexity of Living with Chronic and Rare Diseases Examined through Meme Word Play

Advisor: Katheryn Maguire

19. Corbin, Brooke (Doctoral Student)

Department of Chemistry

Abstract Title: Screening of ligands for redox-active europium using magnetic resonance imaging

Advisor: Matthew Allen

20. Dastgerdizad, Hadis (Doctoral Student)

Department of Kinesiology

Abstract Title: Maximizing Multilevel Community Engagement for Prevention of Obesity and Other Chronic Disease among Immigrants in Dearborn, Michigan.

Advisor: Rachael Dombrowski

21. Dennaoui, Rayane (Doctoral Student)

Department of Cancer Biology

Abstract Title: Novel Insights into the role of Janus Kinase 1 (JAK1) in early pancreatic development and PDAC carcinogenesis

Advisor: Kay-Uwe Wagner

22. Didar, Niloofar (Doctoral Student)

Department of Computer Science

Abstract Title: Dynamic Power Management for Augmented-Reality Apps on Mobile Devices

Advisor: Marco Brocanelli

23. Dove-Medows, Emily (Doctoral Student)

Department of Nursing

Abstract Title: Pregnant, Black Women's Perceived Distances to Predominantly White Neighborhoods

Advisor: Ramona Benkert

24. Edwards, Erin (Doctoral Student)

Department of Translational Neuroscience Program

Abstract Title: Backward Walking: A Clinical Marker of Fall Prediction, Myelin Damage and Cognitive Dysfunction in Persons with Multiple Sclerosis.

Advisor: Nora Fritz

25. El Dairi, Khalil (Master's Student)

Department of Biomedical Engineering

Abstract Title: Title: Comparing the efficacy of VL+UVA1 versus NB-UVB on inducing repigmentation in subjects with generalized vitiligo.

Advisor: Indermeet Kohli PhD

26. Etu, Egbe-Etu (Doctoral Student)

Department of Industrial Engineering

Abstract Title: A Hybrid BP-DEA Approach to Assess the Efficiency of the Emergency Department in Normal Operating Conditions

Advisor: Leslie Monplaisir

27. Fazeli, Seyed Sajjad (Doctoral Student)

Department of Industrial Engineering

Abstract Title: Two-Stage Stochastic Choice Modeling Approach for Electric Vehicle Charging Station Network Design in Urban Communities

Advisor: Saravanan Venkatachalam

28. Feltner, Dorothy (Doctoral Student)

Department of Communication

Abstract Title: The Work of Yoga: Cultivating Wellbeing and Meaningfulness

Advisor: Rahul Mitra

29. Gaddameedi, Jitender Dev (Postdoctoral Scholar)

Department of Pharmaceutical Sciences

Abstract Title: Discovery and Development of Highly Potent and Selective Ku-targeted DNA-PK Inhibitors for Cancer Therapy

Advisor: Navnath Gavande

30. Gandhi, Sonali (Doctoral Student)

Department of Physics

Abstract Title: Fluorescence Cross- correlation Spectroscopy (FCCS) to reveal the molecular mechanisms of lipolysis

Advisor: Christopher Kelly

31. Gladysck, Stephanie (Doctoral Student)

Department of Molecular Genetics and Genomics

Abstract Title: The interaction of MNRR1 and CHCHD10 with Cytochrome c Oxidase

Advisor: Lawrence Grossman

32. Glover, Karynn (Doctoral Student)

Department of Kinesiology

Abstract Title: Elementary Physical Education Students? Climate perceptions predict their orientations and competence

Advisor: E. Whitney G. Moore

33. Gordon, Kaitlyn (Master's Student)

Department of Biochemistry and Molecular Biology

Abstract Title: Converting autoreactive T cells into suppressor cells to ameliorate pathology in preclinical models of multiple sclerosis

Advisor: Eric Sebzda

34. Grant, Jeremy (Master's Student)

Department of Psychology

Abstract Title: Desert Island Battery to Screen for Cognitive Impairment in MS

Advisor: Lisa Rapport

35. Grasser, Lana (Doctoral Student)

Department of Translational Neuroscience Program

Abstract Title: Inflammation and Mental Health in Syrian and Iraqi Refugees

Advisor: Arash Javanbakht

36. Hackett, Justin (Doctoral Student)

Department of Cancer Biology

Abstract Title: Diversity outbred mice demonstrate genetic loci that associate to primary response to immune checkpoint inhibitors and models secondary resistance.

Advisor: Heather Gibson

37. Hanley, Brian (Doctoral Student)

Department of Physics

Abstract Title: Exploration of the nuclear phase diagram using jet-finding tools

Advisor: William Llope

38. Hariharan, Prashant (Doctoral Student)

Department of Biomedical Engineering

Abstract Title: BSCFB-on-a-Chip: Characterizing a microfluidic model of cerebrospinal fluid secretion to study the effect of inflammation and barrier integrity loss in hydrocephalus.

Advisor: Carolyn Harris

39. Herath, Herath Mudiyansele Gedara Kavinda Eranga (Doctoral Student)

Department of Chemistry

Abstract Title: Optimization of Proteomics-based Substrate Trapping with Human Histone Deacetylase-1

Advisor: Mary Kay Pflum

40. Homayouni, Roya (Doctoral Student)

Department of Psychology

Abstract Title: Test-retest consistency of hippocampal subfields volume measures in a developmental sample: implications for longitudinal developmental studies

Advisor: Noa Ofen

41. Hunt, Whitney (Doctoral Student)

Department of Sociology

Abstract Title: Rearticulating Inequality from the Perspective of a White Racial Frame: A Statistical Comparison Between White and Nonwhite Film Tropes

Advisor: David Merolla

42. Hwang, Kyotaek (Postdoctoral Scholar)

Department of Geology

Abstract Title: Toward Improving Linkages between Climatology, Urban Fluxes, and Greenspaces in Shrinking Cities

Advisor: Shirley A. Papuga

43. Islam, Rabiul (Doctoral Student)

Department of Chemistry

Abstract Title: Optimization of peptide antibiotics using an in vivo expression system

Advisor: Christine Chow

44. Jayakodiachchi, Navoda (Doctoral Student)

Department of Chemistry

Abstract Title: Solid-Phase Epitaxy of Perovskite High Dielectric PrAlO₃ Films Grown by Atomic Layer Deposition

Advisor: Charles Winter

45. Jayawardana, Suneth (Doctoral Student)

Department of Physics

Abstract Title: Deconstructing Flavor

Advisor: Nausheen Shah

46. Jilani, Zunaira (Doctoral Student)

Department of Psychology

Abstract Title: Attributions of Blame in Sexual Assault among Young Women: Examining the Role of Ethnicity in Predicting Victim and Perpetrator Blame

Advisor: Antonia Abbey

47. John, Samuel (Doctoral Student)

Department of Biomedical Engineering

Abstract Title: Photoacoustic Image-Guided Endovenous Laser Ablation for the Efficient Treatment of Varicose Veins

Advisor: Mohammad Mehrmohammadi

48. Jones, Alicia (Doctoral Student)

Department of Kinesiology

Abstract Title: Yoga Facilitates Postural Control in Individuals with Parkinson's Disease

Advisor: Qin Lai

49. Kajjam, Aravind Babu (Postdoctoral Scholar)

Department of Chemistry

Abstract Title: Relaxivity of aquaporin-Z containing proteoliposomes with gadolinium(III).

Advisor: Matthew Allen

50. Kamjou, Amir Shahin (Doctoral Student)

Department of Civil Engineering

Abstract Title: Real-time energy emission visualization tools

Advisor: Carol Miller

51. Kaura, Shawn (Master's Student)

Department of Public Health

Abstract Title: Beneficial Effect of Bariatric Surgery on Non-alcoholic Fatty Liver Disease (NAFLD) and Diabetes

Advisor: Yuchuan Ding

52. Khan, Husain Yar (Postdoctoral Scholar)

Department of Cancer Biology

Abstract Title: A novel inhibitor for KRASG12C driven carcinomas

Advisor: Asfar Azmi

53. Kniess Debarba, Lucas (Postdoctoral Scholar)

Department of Biological Sciences

Abstract Title: Acarbose Protects From Central And Peripheral Metabolic Imbalance Induced By Exposure To Benzene.

Advisor: Marianna Sadagurski

54. Knuckles, Donulae' T. (Doctoral Student)

Department of Nursing

Abstract Title: Medical Mistrust Among African American Adult Research Participants with Chronic Hypertension

Advisor: Rosalind Peters

55. Linden, Josh (Master's Student)

Department of Linguistics

Abstract Title: Contrastive Focus Capitalization: Nonstandard Usages of Capital Letters in Web-based English and their Capital-I Implications

Advisor: Stephen Chrisomalis

56. Lu, Xinyang (Doctoral Student)

Department of Kinesiology

Abstract Title: The Profile of Health-Related Quality of Life and Their Relationships with Happiness, Physical Activity and Physical Fitness

Advisor: Bo Shen

57. Lutter, Jacob (Postdoctoral Scholar)

Department of Chemistry

Abstract Title: Inclusion of Europium(II)-Containing Tetraamide-Macrocyclic Complexes in Perfluorocarbon Phase

Advisor: Matthew Allen

58. Makhsuci, Saeedeh (Doctoral Student)

Department of Electrical Engineering

Abstract Title: A Self-Healing Power Amplifier for 5G V2V Communication

Advisor: Mohammed Ismail Elnaggar

59. Manning, Morenci (Doctoral Student)

Department of Cancer Biology

Abstract Title: Pan-cancer Analysis of RNA Methyltransferases Identifies FTSJ3 as a Potential Regulator of Breast Cancer Progression

Advisor: Zeng-Quan Yang

60. Martens, Nancy (Doctoral Student)

Department of Nursing

Abstract Title: Feasibility of an intergenerational intervention engaging older and college-age adults

Advisor: Debra Schutte

61. Marwah, Praneet Kaur (Doctoral Student)

Department of Biological Sciences

Abstract Title: Dopathiazines, a Novel Family of Dopamine Oxidation Products, May Account for the Dopaminergic Selectivity in Both Parkinson's Disease and Manganism

Advisor: David Njus

62. McCrumb, Sarah (Master's Student)

Department of Near Eastern Languages

Abstract Title: The Face-Veil: the laws against it and why it's important

Advisor: Muhammad al-Sharkawi

63. Mestareehi, Aktham (Doctoral Student)

Department of Pharmaceutical Sciences

Abstract Title: Metformin Increases Protein Phosphatase 2a Activity In Primary Skeletal Muscle Cells Derived From Lean Healthy Insulin Sensitive Human Participants

Advisor: Zhengping Yi

64. Mobasser, Shariat (Postdoctoral Scholar)

Department of Civil Engineering

Abstract Title: Detection of Microplastics Based on Nile Red Fluorescence and Raman Spectroscopy

Advisor: Yongli Zhang

65. Mohamed, Ahmed (Doctoral Student)

Department of Electrical Engineering

Abstract Title: Comparison of Machine Learning Techniques to Identify Sepsis Patients in the Emergency Department

Advisor: Hao Ying

66. Morrisette, Taylor (Postdoctoral Scholar)

Department of Pharmacy

Abstract Title: Bacteriophage-Antibiotic Combinations for Enterococcus faecium with Varying Daptomycin and Bacteriophage Susceptibilities

Advisor: Michael Rybak

67. Moses, Niko (Doctoral Student)

Department of Cancer Biology

Abstract Title: HDAC6 regulates Chk1 stability in response to radiation-induced DNA damage

Advisor: Xiaohong Zhang

68. Nguyen, Thu (Doctoral Student)

Department of Mathematics, Applied

Abstract Title: Switching Stochastic Approximation and Applications to Network Systems

Advisor: Gang George Yin

69. Nieman, Kip (Doctoral Student)

Department of Chemical Engineering

Abstract Title: Direct Implementation of Equipment Behavior in Economic Model Predictive Control

Advisor: Helen Durand

70. Oyama, Henrique (Doctoral Student)

Department of Chemical Engineering

Abstract Title: Advances in Control Theory-Based Cyberattack Detection Techniques

Advisor: Helen Durand

71. Pandey, Deepti (Master's Student)

Department of Pharmaceutical Sciences

Abstract Title: Novel DNA Repair Targeted Cancer Therapy Using Small Molecule RPA Inhibitors.

Advisor: Navnath Ganvande

72. Patrick, Sarah (Doctoral Student)

Department of Psychology

Abstract Title: Detecting Simulated Versus Bona Fide Traumatic Brain Injury Using Pupillometry

Advisor: Lisa Rapport

73. Penn, Alexandria (Doctoral Student)

Department of History

Abstract Title: Mapping Detroit's Black-Owned Businesses

Advisor: Elizabeth Faue

74. Pineault, Laura (Doctoral Student)

Department of Psychology

Abstract Title: Perceptions vs. behaviors: Gender differences in work-family conflict (WFC)

Advisor: Marcus Dickson

75. Popielarz, Kaitlin (Doctoral Student)

Department of Curriculum and Instruction

Abstract Title: Youth Organizers as Essential Partners in Teacher Education: Implications from a Community-Based Action Research Project

Advisor: Thomas Pedroni

76. Radigan, Lauren (Doctoral Student)

Department of Psychology

Abstract Title: Detection of Own Race Bias Using the Multicultural Facial Recognition Test

Advisor: Lisa Rapport

77. Rajput, Neha (Master's Student)

Department of Biological Sciences

Abstract Title: Sex and genetics interact to influence anxiety-like behavior in zebrafish.

Advisor: Justin W. Kenney

78. Ranaweera, Ruchiranga (Doctoral Student)

Department of Chemistry

Abstract Title: Bubble nucleation-based electrochemical detection method for perfluorinated surfactants

Advisor: Long Luo

79. Resztak, Justyna (Doctoral Student)

Department of Molecular Genetics and Genomics

Abstract Title: Psychosocial experiences modulate asthma-associated genes through gene-environment interactions

Advisor: Francesca Luca

80. Rodrigo, Sachini (Doctoral Student)

Department of Chemistry

Abstract Title: Mimicking Photoredox Catalysis with Alternative Current Electrolysis (ACE) for Organic Synthesis

Advisor: Long Luo

81. Rodriguez Bontemps, Sandra (Doctoral Student)

Department of Romance Languages

Abstract Title: Global Wanderings: Revisiting Space and Mobility in the Novels of Jean-Philippe Toussaint and Jean Echenoz

Advisor: Alina Cherry

82. Rouhollahi, Foroogh (Doctoral Student)

Department of Chemical Engineering

Abstract Title: Multifunctional Hollow Core@Shell Structures of Graphitized Carbon Encapsulating Porous Magnetic Core for Energy and Biomedical Applications

Advisor: Da Deng

83. Rumman, Marufa (Postdoctoral Scholar)

Department of Cancer Biology

Abstract Title: CUDC-907, a dual HDAC and PI3K inhibitor, inhibits cancer progression both in high and low grade ovarian carcinoma cell lines by activating DNA damage pathway

Advisor: Ira Winer

84. Saba, Sadaf (Doctoral Student)

Department of Molecular Genetics and Genomics

Abstract Title: Deoxysphingolipid Profiling in Patients with Asn177Asp Mutation in SPTLC2 Gene

Advisor: Jun Li

85. Sanni, Adedayo (Doctoral Student)

Department of Chemistry

Abstract Title: Synthetic Control of Defect Mediated Broadband Light Emission from Self-Assembled Nano-materials Towards Near-Infrared LED Applications.

Advisor: Aaron Rury

86. Sexton, Rachel (Doctoral Student)

Department of Cancer Biology

Abstract Title: Targeted Inhibition of Nuclear Exporter Protein Exportin 1 Enhances the Efficacy of Platinum Based Chemotherapeutics in Gastric Cancer

Advisor: Asfar Azmi

87. Sharma, Marcella (Doctoral Student)

Department of Pharmaceutical Sciences

Abstract Title: Heterocyclic Compounds as Potential Inhibitors of N5-CAIR mutase: A More Focused Approach

Advisor: Steven Firestine

88. Silva, Karunamuni Lakmini (Doctoral Student)

Department of Chemistry

Abstract Title: Effect of Metal Ion Solubility on the Oxidative Assembly of Metal Sulfide Quantum Dots

Advisor: Stephanie L. Brock

89. Sirimanna, Chathuranga (Doctoral Student)

Department of Physics

Abstract Title: Photon-Jet correlations in heavy-ion collisions using the JETSCAPE framework

Advisor: Abhijit Majumder

90. Suliman, Mahmoud (Doctoral Student)

Department of Biological Sciences

Abstract Title: Valproate activates endoplasmic reticulum stress elements in human embryonic kidney cells

Advisor: Miriam Greenberg

91. Taghavi, Samira (Doctoral Student)

Department of Computer Science

Abstract Title: ARFES: Automatic Recommender for Framework Evolution Solutions

Advisor: Weisong Shi

92. Tao, Feng (Doctoral Student)

Department of Biological Sciences

Abstract Title: Comparative phenomics of Arabidopsis thaliana newly duplicated genes

Advisor: Chuanzhu Fan

93. Teimoori, Sadaf (Doctoral Student)

Department of Civil Engineering

Abstract Title: Groundwater Resources at the Detroit Region, Michigan

Advisor: Carol Miller

94. Vanamala, Kushal (Master's Student)

Department of Pharmaceutical Sciences

Abstract Title: Tumor-stimuli responsive nanoparticle for overcoming drug resistance in renal cell carcinoma

Advisor: Arun Iyer

95. VanSumeren, Matthew (Doctoral Student)

Department of Kinesiology

Abstract Title: Bone Mineral Density Amongst Collegiate Male Athletes Across Endurance and Strength-based Sports

Advisor: Tamara Hew-Butler

96. Victor, Grant (Postdoctoral Scholar)

Department of Social Work

Abstract Title: Buprenorphine Treatment Uptake following a Non-Fatal overdose: Associations with Opioid-Related Mortality

Advisor: Brad Ray

97. Vo, Linh (Doctoral Student)

Department of Biological Sciences

Abstract Title: Development of novel strategy to improve mitochondrial defects in Barth syndrome

Advisor: Miriam Greenberg

- 98. Wallin, Chela (Doctoral Student)**
Department of Psychology
Abstract Title: Buprenorphine exposure during gestation results in dose-dependent consequences for the dam and her litter in a translational model of opioid-maintenance therapy
Advisor: Susanne Brummelte and Scott Bowen
- 99. Wei, Julong (Postdoctoral Scholar)**
Department of Molecular Genetics and Genomics
Abstract Title: Genetics of gene expression response in asthma at single cell resolution
Advisor: Roger Pique-Regi
- 100. Wessells (Sujkowski), Alyson (Doctoral Student)**
Department of Physiology
Abstract Title: Endurance exercise ameliorates disease progression in Drosophila models of Spinocerebellar Ataxia
Advisor: Sokol Todi
- 101. Wright, Kathryn (Doctoral Student)**
Department of Anthropology
Abstract Title: Time, Presence, and Personhood: Rethinking development and disability chronotopically
Advisor: Jessica Robbins
- 102. Yang, Fei (Doctoral Student)**
Department of Nutrition & Food Science
Abstract Title: Isolation and Structure Characterization of Specific Bacterial β -Glucuronidase Inhibitors from Noni (*Morinda citrifolia* L.) Fruit
Advisor: Kequan Zhou
- 103. Yin, Qin (Doctoral Student)**
Department of Psychology
Abstract Title: Direct brain recordings link the maturation of the occipital cortex to memory development
Advisor: Noa Ofen
- 104. Zafar, Mohsin (Doctoral Student)**
Department of Biomedical Engineering
Abstract Title: Wide-field spiral scanning photoacoustic microscopy system for small animal functional brain imaging
Advisor: Kamran Avanaki
- 105. Kratkiewicz, Karl (Doctoral Student)**
Department of Biomedical Engineering
Abstract Title: Development of a Low-Cost 3D Photoacoustic Computed Tomography with Rotational Configuration: in vitro Study
Advisor: Kamran Avanaki

106. Dardona, Mohammed (Doctoral Student)

Department of Civil and Environmental Engineering

Abstract Title: Extraction and recovering rare earth elements (REEs) from coal fly ash using a pH-dependent engineered sorbent

Advisor: Timothy Dittrich

3MT Competition

1. Anzell, Anthony

Department of Physiology

Presentation Title: Mitochondrial Quality Control in Cerebral Ischemia Reperfusion Injury

Advisor: Karin Przyklenk

2. Bhise, Ketki

Department of Pharmaceutical Sciences

Presentation Title: Body's own soldiers to the rescue of breast cancer women

Advisor: Arun Iyer

3. Cook, Christine

Department of History

Presentation Title: The Military Feminine Mystique: The Women's Army Corps' Evolution from a Separate and Unequal Corps to Full Integration in the U.S. Army, 1948-1978

Advisor: Liette Gidlow

4. Germic, Eloise

Department of Communication

Presentation Title: The Impact of Instagram Motherhood Blogs on Parents

Advisor: Stine Eckert and Fred Vultee

5. Khodadadei, Fatemeh

Department of Chemical Engineering and Materials Science

Presentation Title: How is neuroprosthetic device failure dependent on shear stress?

Advisor: Carolyn Harris

6. Lindner, Anna

Department of Communication

Presentation Title: "An Island Divided: Colonialism in Haiti and the Dominican Republic"

Advisor: Michael Fuhlhage

7. Mai, Hao

Department of Chemistry

Presentation Title: Early Disease Diagnosis Via the Detection of miRNA in Microfluidic Arrays

Advisor: Tom Linz

8. Marwah, Praneeet

Department of Biological Science

Presentation Title: Dopamine: a friend or a foe in Parkinson's disease.

Advisor: David Njus

9. Mays, Elizabeth

Department of Biomedical Engineering

Presentation Title: Spatiotemporal Growth Factor Release for Spinal Cord Injury

Advisor: Harini Sundararaghavan



Diverse Pathways to Careers in Scholarship and Research Panel Discussion

2:45-3:45 p.m., Hilberry A, B and C

J. Lloyd Allen joined Wayne State University's School of Social Work faculty as an assistant professor in Fall 2017. Allen received his PhD (2017) from the University of Georgia, his MSW (2008) from Florida International University, and his Bachelors (2004) from Hampden-Sydney College. His research interests, over the years, include the exploration of issues associated with gender and sexuality, HIV policy and advocacy, mental health and Black/African American gay men, community mobilization, program evaluation, masculinity, mental health, depression, substance abuse, and gender inequality.

Tracie Baker earned her B.S. in biology and chemistry (Cleveland State University), an M.S. in marine biology (University of Alaska), and a Doctorate of Veterinary Medicine and Ph.D. in molecular and environmental toxicology (University of Wisconsin). She is currently an Assistant Professor in the Institute of Environmental Health Sciences and Department of Pharmacology in the School of Medicine at Wayne State University. Her lab focuses on multidisciplinary, translational research that bridges human, animal, and environmental health. She provides critical insights into environmentally-induced disease by using the zebrafish model to uncover the etiology of adverse health endpoints related to contaminant exposure.

Jennifer M. Gómez, National Academy of Sciences Kavli Fellow (2019) and Ford Fellow (2015-16; 2018-19), is an assistant professor in the Department of Psychology and Merrill Palmer Skillman Institute for Child & Family Development (MPSI). She earned her Ph.D. in clinical psychology in 2017 from University of Oregon. She has published over 50 peer-reviewed journal articles, book chapters, scholarly writings, and pieces for the general public. Additionally, she is the lead co-editor of the upcoming special issue of *Journal of Trauma & Dissociation—Discrimination, Violence, & Healing in Marginalized Communities* (anticipated publication: Spring 2021). By focusing on societal inequality's role on the impact of violence for marginalized youth and young adults, Dr. Gómez uses her cultural betrayal trauma theory to both document harm and identify avenues of hope and healing for youth, families, communities, institutions, and society. Web: <http://imgomez.org> ; Twitter: JenniferMGmez1

Saeed A. Khan is currently a PhD candidate in the Department of History and a lecturer in the Department of Near East and Asian Studies, where he teaches Islamic and Middle East History, Islamic Civilizations and History of Islamic Political Thought. He is also a research fellow at Wayne State's Center for the Study of Citizenship and an adjunct professor in Islamic Studies at the University of Detroit-Mercy and at Rochester College. Mr. Khan has been a contributor to several media outlets, such as C-SPAN, NPR, Voice of America and the National Press Club, and is a consultant on Islamic and Middle East affairs for the BBC and the CBC. Mr. Khan holds a JD from the Thomas M. Cooley Law School.

Board of Governors

Marilyn Kelly, *Chair*

Bryan C. Barnhill II

Michael Busuito

Mark Gaffney

Anil Kumar

Sandra Hughes O'Brien

Shirley Stancato

Dana Thompson

M. Roy Wilson, *Ex Officio*