Graduate and Postdoctoral Research Symposium

March 3, 2020

WAYNE STATE
Graduate School
## Graduate and Postdoctoral Research Symposium

**Student Center Building, 5221 Gullen Mall 2nd Floor**

**Event Agenda**

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<td>Awards Ceremony</td>
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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.
   **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-xRhxP 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. Ekhator, 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 Diazaoalkanes in Bulky Bis(alkoxide) Ligand Environments  
    **Advisor:** Stanislav Groysman

37. Gurusinha, 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 Rahinduwage, 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 Dlsu 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 Hütttemann

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  
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 punctate  
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-Mudiyanseilage, 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 Shwann 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 FeCo1-xNixP 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 Metallosurfactannts
**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 Detroiter's?
   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. Gladysz, 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 Mudiyansela 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. Jayakodiirachchi, 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-Macroyclic 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, Alexandrea (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 Among 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 Bath 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 ?-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, Praneet  
   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://jmgomez.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.
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