

GRADUATE AND POSTDOCTORAL  
**Research  
Symposium**



March 5, 2019



WAYNE STATE  
Graduate School

# **GRADUATE AND POSTDOCTORAL RESEARCH SYMPOSIUM**

March 5, 2019

## **Event Agenda**

- 8:00-8:45 am**      **Session 1 Presenters Set up Posters**  
*McGregor A, BC, Atrium*
- 8:45-9:00 am**      **Welcome and Opening Remarks**  
Ingrid Guerra-Lopez, Interim Dean of the Graduate School  
Keith E. Whitfield, Provost and Senior Vice President for  
Academic Affairs  
*McGregor FGH*
- 9:00-10:45 am**      **Poster Session 1**  
*McGregor A, BC, Atrium*
- 10:45-11:00 pm**      **Session 2 Presenters Set up Posters**  
*McGregor A, BC, Atrium*
- 11:00-11:45 am**      **Lunch**  
*Presenters: LM, Judges: E, I, J*
- 12:00-1:45 pm**      **Poster Session 2**  
*McGregor A, BC, Atrium*
- 1:45-2:45 pm**      **3MT Presentations and Judging**  
*McGregor FGH*
- 2:45-3:45 pm**      **Alumni Panel Discussion**  
*McGregor FGH*
- 3:45-4:30 pm**      **Awards Ceremony**  
*McGregor FGH*

## POSTER SESSION 1

### 1. Aboulhassan, Salam (Doctoral Student)

Department of Sociology, College of Liberal Arts & Sciences

**Abstract Title:** “Answering for Their Visibility: Gendered and Racialized Muslim Experiences at Work.”

Advisor: Brumley, Krista

### 2. Adewale, Adeleye (Doctoral Student)

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Investigating the Molecular Interactions of SMYD2 and Titin in Sarcomere.”

Advisor: Ahn, Young-Hoon

### 3. Ahmed, Raed (Doctoral Student)

Department of Political Science, College of Liberal Arts & Sciences

**Abstract Title:** “Organizing of Diaspora Communities in Metro Detroit Against Trump's "Muslim Ban".”

Advisor: Marinova, Nadejda

### 4. Aiyash, Jihan & Reed, Amanda (Master’s Students)

Department of Family Medicine, School of Medicine

**Abstract Title:** “What’s Location Got To Do With It? A Spatial Analysis of Child Blood Lead Levels, Race, and Socioeconomic Characteristics in Metro Detroit.”

Advisor: Campbell-Voytal, Kimberly

### 5. Alijabbari, Naser (Postdoctoral Scholar)

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Photoacoustic Tomography Imaging and Focused Ultrasound for Treatment of Breast Pathologies.”

Advisor: Mehrmohammadi, Mohammad

### 6. Allboani, Amnah (Doctoral Student)

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “A Comparative Study of Optimization Algorithms for Wavefront Shaping.”

Advisor: Avanaki, Mohammad

### 7. Alzhrani, Rami (Doctoral Student)

Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences

**Abstract Title:** “Cancer Stem Cells and Tyrosine Kinase Receptors Directed Macromolecules for Pancreatic Ductal Adenocarcinoma Imaging.”

Advisor: Iyer, Arun

### 8. Amunugama, Samudra (Doctoral Student)

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Development of Terpyridine Based Iron(II), Cobalt(III) and Ru(II) Metallosurfactants for Molecular Rectification.”

Advisor: Verani, Claudio

**9. Anand, Chaitali (Doctoral Student)**

Department of Psychiatry & Behavioral Neuroscience, School of Medicine

**Abstract Title:** “Age Differences in Hippocampal Glutamate Modulation During Object-Location Encoding: Evidence from Proton Functional Magnetic Resonance Spectroscopy (<sup>1</sup>H-fMRS).”

Advisors: Raz, Naftali & Stanley, Jeffrey

**10. Anderson, Ashley (Doctoral Student)**

Department of Biochemistry, Microbiology & Immunology, School of Medicine

**Abstract Title:** “Timing Is Everything: pUL103 Exhibits Temporal Control Over cVAC Biogenesis.”

Advisor: Pellett, Philip

**11. Ashahrani, Suhail (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “The Effectiveness of Omnidirectional Full-Ring Illumination in Photoacoustic Tomography Screening.”

Advisor: Mehrmohammadi, Mohammad

**12. Asher, Katherine (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** “Parents' Histories of Childhood Emotional Neglect Are Associated with Negative Attachment.”

Advisor: Brown, Suzanne

**13. Babegi, Ashjan (Doctoral Student)**

Department of Nursing, College of Nursing

**Abstract Title:** “Sociocultural Barriers and Facilitators for Seeking Help for Intimate Partner Violence Among Women of Arabic Descent.”

Advisor: Visger, Joan

**14. Barnawi, Amin (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Development of a Post-Processing Algorithm for Skull Induced Aberration Correction.”

Advisor: Avanaki, Mohammad

**15. Basij, Maryam (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Miniaturized Phased-Array Ultrasound and Photoacoustic Endoscopic Imaging System.”

Advisor: Mehrmohammadi, Mohammad

**16. Blount-Pacheco, Jessica (Doctoral Student)**

Department of Pharmacology, School of Medicine

**Abstract Title:** “When Is Unanchored Poly-Ub Toxic?.”

Advisor: Todi, Sokol

**17. Bosse, Kelly (Postdoctoral Scholar)**

Department of Neurosurgery, School of Medicine

**Abstract Title:** “Post-TBI Opioid Exposure Exacerbates Behavioral and Neuroinflammatory Outcomes.”

Advisor: Conti, Alana

- 18. Broman, Michael (Doctoral Student)**  
Department of Social Work, School of Social Work  
**Abstract Title:** “A Scoping Review of Psychosocial Protective Factors and Methadone Treatment Outcomes.”  
Advisor: Lister, Jamey
- 19. Canjar, Kyle (Master’s Student)**  
Department of Music, College of Fine, Performing & Communication Arts  
**Abstract Title:** “The Complimentary Chromatic Fantasies of John Dowland.”  
Advisor: Bianchi, Douglas
- 20. Cao, Tianxin (Doctoral Student)**  
Department of Physiology, College of Liberal Arts & Sciences  
**Abstract Title:** “A Novel Glu-Rich Segment in Troponin T Evolved for Flight Muscles.”  
Advisor: Jin, Jian-Ping
- 21. Cassady, Caitlin (Doctoral Student)**  
Department of Social Work & Anthropology, School of Social Work and College of Liberal Arts & Sciences  
**Abstract Title:** “A Scoping Review of End-of-Decision Making Models: Conceptual Gaps and Futures.”  
Advisor: Hopp, Faith
- 22. Chandra, Rashmi (Doctoral Student)**  
Department of Biological Sciences, College of Liberal Arts & Sciences  
**Abstract Title:** “Stress: A Story of Insulin-Like Peptides, Message Mobilization and Survival.”  
Advisor: Alcedo, Joy
- 23. Charbonneau, Sarah (Master’s Student)**  
Department of Social Work, School of Social Work  
**Abstract Title:** “Life Review and Reminiscence with Older Adults in Detroit: Therapeutic Benefits.”  
Advisor: Perry, Tam
- 24. Chehrehganzabi, Yasaman (Doctoral Student)**  
Department of Biomedical Engineering, College of Engineering  
**Abstract Title:** “Study of Novel Injectable Calcium Polyphosphate Hydrogel as Base of Polymeric Bone Cement Material for Antibiotic Delivery.”  
Advisor: Ren, Weiping
- 25. Damschroder, Deena (Doctoral Student)**  
Department of Physiology, School of Medicine  
**Abstract Title:** “Nicotinamide Riboside Rescues the Exercise Capacity of Drosophila Tafazzin Mutants.”  
Advisor: Wessells, Robert
- 26. Dardona, Mohammed (Doctoral Student)**  
Department of Civil & Environmental Engineering, College of Engineering  
**Abstract Title:** “Investigating the Potential for Recovering REEs from Coal Fly Ash and Power Plant Wastewater with an Engineered Sorbent.”  
Advisor: Dittrich, Timothy

**27. De Iorio, Monica (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Affect Intensity and Psychological Distress after TBI.”

Advisor: Rapport, Lisa

**28. Devereaux, Zachary (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Structures and Energetics of Sodium Cationized 2'-Hydroxyl and 2'-Fluoro Pyrimidine Arabinosides: Tandem Mass Spectrometry and Computational Chemistry.”

Advisor: Rodgers, Mary

**29. Dove-Medows, Emily (Doctoral Student)**

Department of Nursing, College of Nursing

**Abstract Title:** “Black Women's Perceptions of Neighborhoods, Experiences of Racial Discrimination, and Psychological Distress During Pregnancy: A Mixed Methods Approach.”

Advisor: Benkert, Ramona

**30. Doza, Adit (Doctoral Student)**

Department of Economics, College of Liberal Arts & Sciences

**Abstract Title:** “Self-Rated Health Trajectories Among Racial/Ethnic Groups in the US: A Latent Class Analysis.”

Advisor: Summers, Gail Jensen

**31. Draft, Amanda (Doctoral Student)**

Department of Sociology, College of Liberal Arts & Sciences

**Abstract Title:** “‘I Kinda Like This Weird Niche Sport, But I Kinda Want Some Money’: Ambivalence in the Business of Modern Roller Derby.”

Advisor: Dillaway, Heather

**32. El Dallal, Siba (Doctoral Student)**

Department of Learning Design & Technology, College of Education

**Abstract Title:** “Strategies for Learning Technology Changes in Higher Education: A Critical Review and a Comprehensive Framework.”

Advisor: Guerra-Lopez, Ingrid

**33. El Harakeh, Nour (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Structural Optimization of Cobalt(III) Oxime Complexes Toward Efficient Proton Reduction.”

Advisor: Verani, Claudio

**34. Elsey, Nicholas (Doctoral Student)**

Department of Physics & Astronomy, College of Liberal Arts & Sciences

**Abstract Title:** “Systematic Studies of Di-Jet Imbalance Measurements in Heavy Ion Collisions at STAR.”

Advisor: Putschke, Joern

**35. Erko, Bekele (Doctoral Student)**

Department of Physics & Astronomy, College of Liberal Arts & Sciences

**Abstract Title:** “Three-Particle Correlations in Relativistic Heavy-Ion Collisions.”

Advisor: Llope, William

**36. Fahmida, Sezana (Doctoral Student)**

Department of Computer Science, College of Engineering

**Abstract Title:** “Energy Efficient Real-Time Parallel Task Scheduling in Multi-Core Platform.”

Advisor: Saifullah, Abusayeed

**37. Fazeli, Seyed Sajjad (Doctoral Student)**

Department of Industrial & Manufacturing Engineering, College of Engineering

**Abstract Title:** “Charging Station Network Design for Electrified Vehicles in Urban Communities:

Reducing Congestion, Emissions, Improving Accessibility, and Promoting Walking, Bicycling, and Use of Public Transportation.”

Advisor: Venkatachalam, Saravanan

**38. Fountain, Matthew (Doctoral Student)**

Department of Biochemistry, Microbiology & Immunology, School of Medicine

**Abstract Title:** “Isoflavones Limit Radiation-Induced Lung Immunopathology as a Vascular Endothelial Cell Death Mechanism for Radioprotection.”

Advisors: Hillman, Gilda & Tse, Harley

**39. Gajan, Ambikai (Postdoctoral Scholar)**

Department of Oncology, School of Medicine

**Abstract Title:** “Rad6 Plays an Important Role in Melanocytic Lineage Commitment and Melanomagenesis.”

Advisor: Shekhar, Malathy

**40. Gallagher, Natalie (Master’s Student)**

Department of Communication, College of Fine, Performing & Communication Arts

**Abstract Title:** “Navigating Protection and Liberation: Evaluating the Impact of a Community Navigator Program in Local Immigrant Communities.”

Advisor: Pearson, Frederic

**41. Gladysck, Stephanie (Doctoral Student)**

Center for Molecular Medicine & Genetics, School of Medicine

**Abstract Title:** “Post-Translational Modification of MNRR1 Determines Role of Mitochondria.”

Advisor: Grossman, Lawrence

**42. Goletz, Jessica (Master’s Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Through Mom's Eyes: The Role of Fatherhood from a Maternal Perspective.”

Advisor: Beeghly, Marjorie

**43. Gomes, Kudamaduwege Inosha (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “PRMT5 Activity Is Affected by HDAC6-Mediated Deacetylation.”

Advisor: Pflum, Mary Kay

**44. Govindarajan, Barani (Doctoral Student)**

Department of Pathology, School of Medicine

**Abstract Title:** “PI4kIII $\alpha$  and CXCR4 Crosstalk in Prostate Cancer Cells.”

Advisor: Chinni, Sreenivasa

**45. Grant, Jeremy (Master’s Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Existential Well-Being Predicts Health Outcomes in Multiple Sclerosis.”

Advisor: Rapport, Lisa

**46. Grass, Amanda (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Synthesis, Characterization, and Reactivity of Colbalt and Iron Complexes Towards Diazoalkanes in Bulky Bis(alkoxide) Ligand Environments.”

Advisor: Groysman, Stanislav

**47. Gunawardana, Malawara Arachchiga Ayesh (Doctoral Student)**

Department of Physics & Astronomy, College of Liberal Arts & Sciences

**Abstract Title:** “On HQET and NRQCD Operators of Dimension 8 and Above.”

Advisor: Paz, Gil

**48. Hackett, Justin (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Diversity Outbred Mice as a Model to Associate Host Genetic Background with Response to Immunotherapy.”

Advisor: Gibson, Heather

**49. Haj Ali, Alaa (Doctoral Student)**

Department of Mathematics, College of Liberal Arts & Sciences

**Abstract Title:** “The One-Phase Bifurcation Phenomenon for the p-Laplacian.”

Advisor: Wang, Peiyong

**50. Hall, Leo (Master’s Student)**

Department of Ophthalmology, Visual & Anatomical Sciences, School of Medicine

**Abstract Title:** “Nicotinic Acetylcholine Receptors in Bipolar Cells Contribute to Motion Detection in Ganglion Cells of the Mouse Retina.”

Advisor: Ichinose, Tomomi

**51. Hamdan, Suha (Doctoral Student)**

Department of Teacher Education, Curriculum & Instruction, College of Education

**Abstract Title:** “International Students' Identities & Learning Trajectories.”

Advisor: Roberts, Kathryn

**52. Hamilton, Corey (Doctoral Student)**

Department of English, College of Liberal Arts & Sciences

**Abstract Title:** “Attendance and Absence of Attendees: Acknowledging a Rhetoric of an American Protestant Megachurch.”

Advisor: Sackey, Donnie



**53. Han, Xiangfei (Doctoral Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** “Mucus-Penetrating Particle Technology.”

Advisor: Cao, Zhiqiang

**54. Hanna, Julie (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** “The Michigan Re-entry Project (MI-REP): Supporting Reentry for Those with Co-Occurring Opioid Use and Mental Health Issues.”

Advisor: Resko, Stella

**55. Hellmer, Chase (Doctoral Student)**

Department of Ophthalmology, Visual & Anatomical Sciences, School of Medicine

**Abstract Title:** “Nicotinic Acetylcholine Receptors in Retinal Bipolar Cells Contribute to Motion Detection in the Mouse Retina.”

Advisor: Ichinose, Tomomi

**56. Heyza, Joshua (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Identification and Characterization of Synthetic Viability with ERCC1 Deficiency in Response to Interstrand Crosslinks.”

Advisor: Patrick, Stephen

**57. Hicks, Danielle (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** “Lessons Learned from iCare: A Post-Exam Text Messaging-Based Programs with Sexual Assault Patients.”

Advisor: Patterson, Debra

**58. Hurley, Laura (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Evaluation of Autoantibodies to Paraneoplastic Antigens as Early Detection Biomarkers for High-Grade Serous Ovarian Cancer.”

Advisor: Tainosky, Michael

**59. Jilani, Zunaira (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Examining Social Relationships and Health in a Community Sample of Sexual Assault Survivors.”

Advisor: Abbey, Antonia

**60. Jindal, Ishan (Doctoral Student)**

Department of Electrical & Computer Engineering, College of Engineering

**Abstract Title:** “Big Data Driven Optimized Taxi Ride Share Policies.”

Advisor: Singh, Harpreet

**61. Jog, Ruta (Doctoral Student)**

Department of Pathology, School of Medicine

**Abstract Title:** “A Potential Link Between Glycine Metabolism, Oxidative Stress and Diabetes.”

Advisors: Leff, Todd & Wang, Jian

**62. John, Samuel (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Integrated Endovenous Laser Ablation/Photoacoustic Imaging System for Treating Venous Insufficiencies: Characterization Study.”

Advisor: Mehrmohammadi, Mohammadi

**63. Johnson, Elizabeth (Postdoctoral Scholar)**

Institute of Gerontology

**Abstract Title:** “Medial Temporal Theta Rhythms Predict Subsequent Memory in Children and Adolescents.”

Advisor: Ofen, Noa

**64. Johnson, Sean (Doctoral Student)**

Department of Pharmacology, School of Medicine

**Abstract Title:** “Differential Toxicity, Aggregation, and Neurodegeneration of Splice Isoforms in Spinocerebellar Ataxia 3.”

Advisor: Todi, Sokol

**65. Joshwa, Bincy (Doctoral Student)**

Department of Nursing, College of Nursing

**Abstract Title:** “Intensity and Correlates of Fatigue in Individuals on Hemodialysis: A Quantitative Study.”

Advisor: Campbell, Margaret

**66. Kalpage, Hasini (Doctoral Student)**

Center for Molecular Medicine & Genetics, School of Medicine

**Abstract Title:** “Role of Serine-47 Phosphorylation of Cytochrome C in Brain Ischemia/Reperfusion Injury.”

Advisor: Hüttemann, Maik

**67. Karavidha, Klevis (Doctoral Student)**

Department of Psychiatry & Behavioral Neuroscience, School of Medicine

**Abstract Title:** “Beta-Arrestin 2 Single Nucleotide Polymorphism Associated with Long Term Consequences of Opioid Use.”

Advisor: Greenwald, Mark

**68. Khodadadei, Fatemeh (Doctoral Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** “How is Neuroprosthetic Device Failure Dependent on Shear Stress? A High-Resolution Real-Time Quantification of Shear and Astrocyte Cytokine Secretion.”

Advisor: Harris, Carolyn

**69. Kratkiewicz, Karl (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Development and Characterization of TransFontanelle Multispectral Photoacoustic Imaging Probe for Hemorrhage Detection and Analysis.”

Advisor: Avanaki, Mohammad

**70. Kyko, Jaelyn (Master’s Student)**

Department of Family Medicine and Public Health Sciences, School of Medicine

**Abstract Title:** “Financial Hardship and Quality of Life Among African American and White Cancer Survivors: The Role of Limiting Care due to Cost.”

Advisor: Hastert, Theresa

**71. Lavan, Sydney (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Vibrational Study of a Hydrogen Bonded Antiferroelectric Material.”

Advisor: Rury, Aaron

**72. Lee, Jeoung Min (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** “Is Peer Victimization a Significant Risk for Acquiring Sexually Transmitted Infections? Exploring the Pathways in a Sample of Urban African American Youth.”

Advisor: Hong, Jun Sung

**73. Levitt, Amanda (Doctoral Student)**

Department of Sociology, College of Liberal Arts & Sciences

**Abstract Title:** “Late Pay - Experiences of Unpaid Employees at a Major Research University.”

Advisor: Dillaway, Heather

**74. Luedtke, Daniel (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Inhibition of CDK9 by Voruciclib Enhances Cell Death Induced by the Bcl-2 Selective Inhibitor ABT-199 in Acute Myeloid Leukemia.”

Advisor: Ge, Yubin

**75. Lukas, Mackenzie (Doctoral Student)**

Department of Physiology, School of Medicine

**Abstract Title:** “Preconditioning the Uterine Myocyte Secretome Promotes the Propagation of a Protective Anti-Apoptotic Phenotype in a Paracrine Manner.”

Advisor: Condon, Jennifer

**76. Mataczynski, Christopher (Doctoral Student)**

Department of Biological Sciences, College of Liberal Arts & Sciences

**Abstract Title:** “The TodK Histidine Kinase and its Role in Cell Fate Segregation During the M. Xanthus Developmental Program.”

Advisor: Higgs, Penelope

**77. Nicholas, Ian (Master's Student)**

Department of Music, College of Fine, Performing & Communication Arts

**Abstract Title:** "Parental Beliefs and Use of Music Withing the Parent-Child Relationship."

Advisor: Dayton, Carolyn

**78. Patimurani, Annisa (Doctoral Student)**

Department of Communication, College of Fine, Performing & Communication Arts

**Abstract Title:** "The Hypertextual Self: Exploring the Use of Social Media in Identity Work Among Muslims in America."

Advisor: Tong, Stephanie

**79. Primeau, Sarah**

Department of English, College of Liberal Arts & Sciences

**Abstract Title:** Designing a First-Year Composition Course from a Cultural Rhetorics Orientation."

Advisor: Barton, Ellen

**80. Russo, Sandra (Doctoral Student)**

Department of Classical & Modern Languages, College of Liberal Arts & Sciences

**Abstract Title:** "The Political Commitment of the Female Character in Contemporary Spanish Novels."

Advisor: Higuero, Francisco

**81. Smith, Valerie (Doctoral Student)**

Department of Kinesiology, Health & Sport Studies, College of Education

**Abstract Title:** "Comparing Division I Athletes' Responses to Three Different Mental Toughness Measures within the Strength and Conditioning Context."

Advisor: Moore, E. Whitney

**82. Snapp, Erin (Doctoral Student)**

Department of Kinesiology, Health & Sports Studies, College of Education

**Abstract Title:** "Improving Quality of Life for Children with Developmental Disabilities Through Gross Motor Function Interventions."

Advisor: Martin, Jeffrey

**83. Vasquez, Adrian (Postdoctoral Scholar)**

Department of Teacher Education, Curriculum & Instruction, College of Education

**Abstract Title:** "Using Science-Based Experiences and Research to Increase Under-Represented Detroit Student Participation in a Regional Science Symposium."

Advisor: Yarema, Sandra

**84. Xu, Kai (Doctoral Student)**

Department of Communication, College of Fine, Performing & Communication Arts

**Abstract Title:** "Populist Persuasion Using Moral Foundation Theory."

Advisor: Stoycheff, Elizabeth

**85. Toseef, Mohammad Usama (Doctoral Student)**

Department of Economics, College of Liberal Arts & Sciences

**Abstract Title:** "Medicaid Managed Care and Emergency Room Visits: Duals Versus Non-Duals."

Advisor: Summers, Gail Jensen

**86. Xu, Qiuyun (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Enhanced Topical Delivery of Ultrasmall Gold Nanoparticles for Optical Coherence Tomography.”

Advisor: Avanaki, Mohammad

## POSTER SESSION 2

### 1. Cobb, Tyler (Doctoral Student)

Department of Physiology, School of Medicine

**Abstract Title:** “A Structural Feature of Troponin T Evolved in Flight Muscles of Birds and Insects with A Potentially Analogous Role in Flight Functions.”

Advisor: Wessells, Robert

### 2. Fatima, Afreen (Doctoral Student)

Department of Electrical & Computer Engineering, School of Medicine

**Abstract Title:** “Measuring Analyte Desorption Using a Surfactant Retardation Effect Sensor.”

Advisor: Basu, Amar

### 3. Findley, Anthony (Doctoral Student)

Center for Molecular Medicine & Genetics, School of Medicine

**Abstract Title:** “Interpreting Coronary Artery Disease Risk Through Gene-Environment Interactions in Gene Regulation.”

Advisors: Pique-Regi, Robert & Luca, Francesca

### 4. Manning, Morenci (Doctoral Student)

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Genomic and Functional Analyses of RNA Methyltransferases Reveal FTSJ3 Is a Novel Oncogene in Human Cancer.”

Advisor: Yang, Zeng-Quan

### 5. Mannozi, Joseph (Doctoral Student)

Department of Physiology, School of Medicine

**Abstract Title:** “Muscle Metaboreflex Induced Increases in Effective Arterial Elastance.”

Advisor: O’Leary, Donal

### 6. Manwar, Rayyan (Postdoctoral Scholar)

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Skull’s Photoacoustic Attenuation and Dispersion Modeling with Deterministic Ray-Tracing: Towards Real-Time Aberration Correction.”

Advisor: Avanaki, Mohammad

### 7. Marwah, Praneet Kaur (Doctoral Student)

Department of Biological Sciences, College of Liberal Arts & Sciences

**Abstract Title:** “Establishing a Role of Hypochlorite-Oxidized Cysteiny Dopamine (HOCD) in Parkinson's Disease.”

Advisor: Njus, David

### 8. Matchynski, James (Doctoral Student)

Department of Psychiatry & Behavioral Neuroscience, School of Medicine

**Abstract Title:** “Ex Vivo Testing of a Photoacoustic Based in Vivo Neuronal Activity Imaging System with the cFos/LacZ Gene Reporter System.”

Advisors: Perrine, Shane & Conti, Alana

**9. Mays, Elizabeth (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Heparin Modified Hyaluronic Acid Sequesters bFGF and NGF.”

Advisor: Sundararaghavan, Harini

**10. McDaniel, Colleen (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Does Relationship Status Matter? Differences in Factors Influencing Men's Sex Behaviors.”

Advisor: Abbey, Antonia

**11. McLaughlin, Patrick (Doctoral Student)**

Department of Biological Sciences, College of Liberal Arts & Sciences

**Abstract Title:** “Characterizing Autoregulation of a Global Transcriptional Regulator in Myxococcus Xanthus.”

Advisor: Higgs, Penelope

**12. Merriweather, Desiree (Master’s Student)**

Department of Business Administration, Mike Ilitch School of Business

**Abstract Title:** “Using Continuous Quality Improvement Model for Clerkship Summative Assessment Timeliness.”

Advisor: Booza, Jason

**13. Mokhtari, Mohsen (Master’s Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Efficacy Evaluation of Antioxidant Complex Against Visible Light Induced Biological Effects.”

Advisor: Kohli, Indermeet

**14. Mooney, Isaac (Doctoral Student)**

Department of Physics & Astronomy, College of Liberal Arts & Sciences

**Abstract Title:** “First Measurement of Jet Mass in pp Collisions at the STAR Experiment.”

Advisor: Putschke, Joern

**15. Morgan, Fredricka (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Electrocatalytic Water Reduction with a New Bimetallic Cobalt Catalyst.”

Advisor: Verani, Claudio

**16. Moses, Niko (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “HDAC6 Regulates Chk1 Stability in Response to Radiation-Induced DNA Damage.”

Advisor: Zhang, Xiaohong (Mary)

**17. Munroe, Derwin (Doctoral Student)**

Department of Political Science, College of Liberal Arts & Sciences

**Abstract Title:** “Timing and Pace of Energy Transition in Developing Countries, 2000-2015.”

Advisor: Lean, Sharon

**18. Mutinda, Samuel (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Synthesis and Characterization of Co<sub>2</sub>-xRh<sub>x</sub>P and Co<sub>2</sub>-xRu<sub>x</sub>P Nanoparticles: Novel Catalysts for Water Splitting and Hydrodesulphurization.”

Advisor: Brock, Stephanie

**19. Muzzarelli, Kendall (Doctoral Student)**

Department of Biochemistry, Microbiology & Immunology, School of Medicine

**Abstract Title:** “Structure-Based Design and Evaluation of Targeted Covalent Inhibitors Against Norovirus Protease.”

Advisor: Kovari, Ladislau

**20. Naik, Akshata (Doctoral Student)**

Department of Physiology, School of Medicine

**Abstract Title:** “Valproate Inhibits Glucose-Stimulated Insulin Secretion in Pancreatic Beta Cells.”

Advisor: Jena, Bhanu

**21. Nguyen, Dao (Doctoral Student)**

Department of Mathematics, College of Liberal Arts & Sciences

**Abstract Title:** “Optimal Control of a Nonsmooth Perturbed Sweeping Process and its Applications.”

Advisor: Mordukhovich, Boris

**22. Nguyen, Huong (Doctoral Student)**

Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences

**Abstract Title:** “Activation of Nitric Oxide Synthesis by Metformin-Methylglyoxal Imidazoline Metabolite (IMZ): Potential Role in Alleviating Diabetic Cardiovascular Complications.”

Advisor: Monks, Terrence

**23. Nsair, Viva (Doctoral Student)**

Department of Management & Information Systems, Mike Ilitch School of Business

**Abstract Title:** “Firm Hybridity and Purity in Reforming Emerging Markets: CEO and Firm Origin Matter in Times of Upheaval.”

Advisor: Julian, Scott

**24. Oyama, Henrique (Doctoral Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** “Dynamic Process Operation and Control-Design Interactions.”

Advisor: Durand, Helen

**25. Patel, Bijal (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Self-Assembled Collagen-Fibrin Hydrogel Reinforces Tissue Engineered Adventitia Vessels Seeded with Human Fibroblasts.”

Advisor: Lam, Mai



**26. Patrick, Sarah (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Performance Validity Assessment Using Response Time on the Warrington Recognition Memory Test.”

Advisor: Rapport, Lisa

**27. Pattyn, Alexander (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Optical and Acoustical Compensation for Full-Ring Photoacoustic Tomography Using a Numerical Breast Phantom.”

Advisor: Mehrmohammadi, Mohammad

**28. Pester, Bethany (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Do Empathic Responses from Loved Ones Reduce Acute Pain?”

Advisor: Cano, Annmarie

**29. Peterson, Madison (Doctoral Student)**

Department of Biochemistry, Microbiology & Immunology, School of Medicine

**Abstract Title:** “Identification of Factors that Enable Long-Term Vibrio Cholerae Colonization of Zebrafish.”

Advisor: Withey, Jeffrey

**30. Pham, Tri (Doctoral Student)**

Department of Pathology, School of Medicine

**Abstract Title:** “Autophagy in Adipogenesis and Osteoblastogenesis.”

Advisor: Kim, Hyeong-Reh

**31. Piggott, Veronica (Postdoctoral Scholar)**

Department of Neurosurgery, School of Medicine

**Abstract Title:** “Traumatic Stress and Chronic Ethanol Exposure Increase Striatal Cannabinoid Ligands in Mice.”

Advisor: Conti, Alana

**32. Punyapu, Venkata Rohit (Master’s Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** “Novel Design and Synthesis of 3-D Nanostructures of Metal Oxides for Next-Generation Lithium-Ion Batteries.”

Advisor: Deng, Da

**33. Putt, Douglas (Master’s Student)**

Department of Biological Sciences, College of Liberal Arts & Sciences

**Abstract Title:** “Forest Ecological Classification of Shiawassee National Wildlife Refuge.”

Advisor: Kashian, Daniel

**34. Radigan, Lauren (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Preliminary Examination of Psychometric Properties for the Multicultural Facial Recognition Test.”

Advisor: Rapport, Lisa

**35. Raedler, Patrick (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Janus Kinase 1 Plays a Critical Role in Mammary Cancer Progression.”

Advisor: Wagner, Kay-Uwe

**36. Rajagopalan, Carthic (Doctoral Student)**

Department of Physiology, School of Medicine

**Abstract Title:** “The E3 Ubiquitin Ligase RNF 19B Promotes CFTR $\Delta$ F508 Degradation.”

Advisor: Chen, Xuequn

**37. Rajendran, Sathish (Doctoral Student)**

Department of Mechanical Engineering, College of Engineering

**Abstract Title:** “ALD Coated Boron Nitride Engineered Electrode-Electrolyte Interface for All Solid-State Battery.”

Advisor: Arava, Leela

**38. Rivera, Zenaida (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Sexual Subjectivity in Lesbian, Gay, and Bisexual Emerging Adults.”

Advisor: Simon, Valerie

**39. Roberts, Cameron (Doctoral Student)**

Department of Biochemistry, Microbiology & Immunology, School of Medicine

**Abstract Title:** “Examining the Importance of Transmembrane Domain 1 and 2 in P Type ATPase ZntA.”

Advisor: Mitra, Bharati

**40. Roy, Indrakshi (Doctoral Student)**

Department of Economics, College of Liberal Arts & Sciences

**Abstract Title:** “Status of Employer-Sponsored Compensation and Fringe Benefits Among U.S. Workers Nearing Retirement.”

Advisor: Summers, Gail Jensen

**41. Rumman, Marufa (Postdoctoral Scholar)**

Department of Obstetrics & Gynecology, School of Medicine

**Abstract Title:** “ONC201 Induces the Unfolded Protein Response (UPR) in High and Low Grade Ovarian Carcinoma Cell Lines and Leads to Cell Death Regardless of Platinum Sensitivity.”

Advisor: Winer, Ira Seth

**42. Ryley, Walter (Doctoral Student)**

Department of Economics, College of Liberal Arts & Sciences

**Abstract Title:** “Exploring the Competitive Dynamics of Trucking Deregulation.”

Advisor: Lee, Li Way

**43. Saadat, Nadia (Postdoctoral Scholar)**

Department of Family Medicine & Public Health, School of Medicine

**Abstract Title:** “Lipidomics Profiles are Related to Preterm Birth and Depressive Symptoms in Pregnant African American Women.”

Advisor: Misra, Dawn

**44. Sadatijafarkalaei, Najibesadat (Doctoral Student)**

Department of Industrial & Systems Engineering, College of Engineering 42

**Abstract Title:** “Dynamic Resource Allocation for Coordination of Inpatient Operations in Hospitals.”

Advisor: Chinnam, Ratna Babu

**45. Sakhtemani, Ramin (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Whole Genome Mapping of Uracils Created by Human APOBEC3A Suggests a Targeting Mechanism Involving Binding to RNA Secondary Structure.”

Advisor: Bhagwat, Ashok

**46. Salsaa, Michael (Doctoral Student)**

Department of Biological Sciences, College of Liberal Arts & Sciences

**Abstract Title:** “Cardiolipin-Deficient Cells Depend on Anaplerotic Pathways to Ameliorate Defective TCA Cycle Function.”

Advisor: Greenberg, Miriam

**47. Samala, Ganesh (Postdoctoral Scholar)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Tin-Free Reductive Cyclizations of Neutral Aminyl Radicals Towards Saturated Nitrogenous Heterocycles.”

Advisor: Stockdill, Jennifer

**48. Samira, Samji (Doctoral Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** “Tailoring Solid-Solid Interfacial Catalysis Using Metal Oxides for Energy Storage.”

Advisor: Nikolla, Eranda

**49. Sanni, Adedayo (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Broadband Light Emission in Hybrid Perovskites: Assessing the Role of Defects.”

Advisor: Rury, Aaron

**50. Sau, Samaresh (Postdoctoral Scholar)**

Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences

**Abstract Title:** “Repositioning Immune Check Point Inhibitor in Combination with Chemotherapeutic Delivery.”

Advisor: Iyer, Arun

**51. Schultz, Robert (Master's Student)**

Department of Economics, College of Liberal Arts & Sciences

**Abstract Title:** "Specialization, Peer Effects, and Team Performance: Evidence Using NCAA 4x400 Relay Times."

Advisor: Goodman, Allen

**52. Shahab, Monazza (Doctoral Student)**

Department of Pharmacology, School of Medicine

**Abstract Title:** "Cisplatin Treatment Induces Nitritative Stress Leading to Neuromast Cell Death in Danio Rerio."

Advisor: Jamesdaniel, Samson

**53. Silva, Karunamuni (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** "Role of Metal Ion on the Oxidative Assembly of Metal Chalcogenide Nanocrystals."

Advisor: Brock, Stephanie

**54. Siraji, Ashfaqul Anwar (Doctoral Student)**

Department of Electrical & Computer Engineering, College of Engineering

**Abstract Title:** "Controlling Light Transmission Using All-Dielectric Optical Nanostructures."

Advisor: Zhao, Yang

**55. Soroush Barhaghi, Mohammad (Doctoral Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** "GOMC: GPU Optimized Monte Carlo for the Simulation of Phase Equilibria and Physical Properties of Complex Fluids."

Advisor: Potoff, Jeffrey

**56. Stanley, Erin (Doctoral Student)**

Department of Social Work & Anthropology, School of Social Work and College of Liberal Arts & Sciences

**Abstract Title:** "Healthcare Culture and Interprofessional Education: Toward a Deeper Understanding and Critical Response."

Advisor: Kral, Michael

**57. Steinberg, Davia (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** "Predictors of Early Sexting Onset in Adolescence."

Advisor: Simon, Valerie

**58. Sutherland, Laura (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** "The Things that Keep Me Going:" Caring for Garden, Self, and Kin Among Older African Americans in Detroit."

Advisor: Perry, Tam

**59. Sweidan, Wafaa (Doctoral Student)**

Department of Psychiatry & Behavioral Neuroscience, School of Medicine

**Abstract Title:** “Assessment of Visual Processing Dysfunction and Cortical Pathology in Parkinson Disease Patients Related to Visual Hallucination.”

Advisors: Seraji-Bozorgzad, Navid & Stanley, Jeffrey

**60. Szlag, Regina (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Synthesis of Rubidium-Alkaline Earth Trifluoroacetates Single-Source Precursors for Mixed-Metal Fluorides.”

Advisor: Rabuffetti, Federico

**61. Taghizadeh, Elham (Doctoral Student)**

Department of Industrial & Systems Engineering, College of Engineering

**Abstract Title:** “Supply Network Resilience Management.”

Advisor: Chinnam, Ratna Babu

**62. Tang, Lingfei (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Assessing the Reliability of fMRI Measures in Characterizing Memory Development.”

Advisor: Ofen, Noa

**63. Tate, Marion (Doctoral Student)**

Department of Teacher Education, College of Education

**Abstract Title:** “Promoting Student Interest in STEM and STEM-Related Careers via a Place-Based Environmental Educational Program at a Public Aquarium.”

Advisors: Bhavnagri, Navaz & Yarema, Sandra

**64. Teslow, Emily (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “SRSF2-Dependent MBD2\_v2 Expression Is Induced by Obesity and Promotes Tumor-Initiating Triple Negative Breast Cancer Stem Cells.”

Advisor: Bollig-Fischer, Aliccia

**65. Toman, Lindsay (Doctoral Student)**

Department of Sociology, College of Liberal Arts & Sciences

**Abstract Title:** “LGBTQ Medical Students: Back in School, Back in the Closet.”

Advisor: Brumley, Krista

**66. Tracy, Nicole (Postdoctoral Scholar)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Neural Correlates of the Effect of Personality on Cognitive Performance in Aging.”

Advisor: Damoiseaux, Jessica

**67. Vanderwill, Lori (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** “Are School of Choice a Form of Racialized Community Violence? Comparing Rates of Out of District Enrolment by School Ranking, Distance, and Racial Segregation.”

Advisor: Smith, Richard

**68. Vedhanayagam, Arpith (Doctoral Student)**

Department of Electrical & Computer Engineering, College of Engineering

**Abstract Title:** “Droplet Tracking at ~3000 Frames Per Second Using GPU Accelerated Image Processing.”

Advisor: Basu, Amar

**69. Venjeti, Naresh (Postdoctoral Scholar)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Progress Towards the Synthesis of Calciphylline A: Construction of ABCD Tetracyclic Core.”

Advisor: Stockdill, Jennifer

**70. Vossoughi Shahvari, Amin (Doctoral Student)**

Department of Chemical Engineering & Materials Science, College of Engineering

**Abstract Title:** “Culturing the Co-Encapsulated Primary Hepatocytes with Mesenchymal Stem Cells in a Perfusion Chip System: Study on Effect of Co-Encapsulation and Perfusion on Hepatocyte Metabolic Activity.”

Advisor: Matthew, Howard

**71. Cofield, Cherie (Doctoral Student)**

Department of Nursing, College of Nursing

**Abstract Title:** “The Effects of a Mindfulness Martial Arts Intervention on Reducing Chronic Pain in Adolescents with Sickle Cell Disease.”

Advisor: Vallerand, April Hazard

**72. Wallace-Povirk, Andrea (Doctoral Student)**

Cancer Biology Graduate Program, School of Medicine

**Abstract Title:** “Targeting Mitochondrial and Cytosolic One-Carbon Metabolism in Epithelial Ovarian Cancer via Folate Receptor Alpha.”

Advisor: Matherly, Larry

**73. Wallin, Chela (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Preconceptional, Gestational, and Postpartum Buprenorphine Exposure in Rats: Litter Outcomes, Development, and Adolescent Behavior.”

Advisors: Brummelte, Susanne & Bowen, Scott

**74. Wan, Junmei (Master’s Student)**

Center for Molecular Medicine & Genetics, School of Medicine

**Abstract Title:** “Effect of Cytochrome C Threonine 58 Phosphorylation on Respiration and Apoptosis.”

Advisor: Hüttemann, Maik

**75. Watuthanthrige Perera, Madusha Lakshani (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Mapping of Genomic Uracils Created by Human AID in Mammalian and Bacterial Genomes.”

Advisor: Bhagwat, Ashok

**76. Weeraratne, A. D. K. Isuri (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Early Transition Metal Complexes as Molecular Rectifiers.”

Advisor: Verani, Claudio

**77. Willcock, Aaron (Doctoral Student)**

Department of Computer Science, College of Engineering

**Abstract Title:** “Engine Control: Calculating Worst-Case Demand via the Knapsack Problem.”

Advisor: Fisher, Nathan

**78. Willis, Tamarie (Doctoral Student)**

Department of Social Work, School of Social Work

**Abstract Title:** “Individuals with Mental Illness Who Have Multiple Encounters with Law Enforcement.”

Advisor: Comartin, Erin

**79. Yan, Yan (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Multi-Parametric Acoustic Imaging for Collagen Remodeling to Indicate Cervical Insufficiency.”

Advisor: Mehrmohammadi, Mohammad

**80. Yin, Qin (Doctoral Student)**

Department of Psychology, College of Liberal Arts & Sciences

**Abstract Title:** “Scene Complexity Visual Alpha Modulations Facilitate Memory Development.”

Advisor: Ofen, Noa

**81. Yu, Qiuye (Doctoral Student)**

Department of Electrical & Computer Engineering, College of Engineering

**Abstract Title:** “Characterizing the Vibration Behavior in the Crack Vicinity in Sonic Infrared Imaging NDE.”

Advisor: Han, Xiaoyan

**82. Zafar, Mohsin (Doctoral Student)**

Department of Biomedical Engineering, College of Engineering

**Abstract Title:** “Development of 16 Element Low Cost Photoacoustic Computed Tomography System.”

Advisor: Avanaki, Mohammad

**83. Zarb, Audrey (Doctoral Student)**

Department of Civil & Environmental Engineering, College of Engineering

**Abstract Title:** “A Comparison of Standard Culture Versus Molecular Methods for Evaluating Microbial Biofilms in Residential Point-Of-Use Filters.”

Advisor: McElmurry, Shawn

**84. Zhang, Qian (Doctoral Student)**

Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences

**Abstract Title:** “Mdig Acts as an Antagonist for Repressive Histone Methylation Markers.”

Advisor: Chen, Fei

**85. Zhu, Ruimin (Doctoral Student)**

Department of Physiology, School of Medicine

**Abstract Title:** “Proinsulin Misfolding Due to Defective ER Export in Pancreatic Beta Cells.”

Advisor: Chen, Xuequn

**86. Munasinghe, Hashini (Doctoral Student)**

Department of Chemistry, College of Liberal Arts & Sciences

**Abstract Title:** “Bimetallic Trifluoroacetates as Single-Source Precursors for Alkali-Manganese Fluoroperovskites.”

Advisor: Rabuffetti, Federico



## 3MT COMPETITION

1. **Alali, Kawthar (Master's Student)**  
Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences  
**Presentation Title:** "Marijuana Effects on Crash Avoidance Reaction Time."  
Advisor: Commissaris, Randall
2. **Cameron, Alexandra (Doctoral Student)**  
Department of Social Work, School of Social Work  
**Presentation Title:** "Social Suicide, Resilience, and the Mediating Factors Between Bullying and Suicidal Ideation."  
Advisor: Kral, Michael
3. **Damschroder, Deena (Doctoral Student)**  
Department of Physiology, School of Medicine  
**Presentation Title:** "Flies Running to the Rescue of Barth Syndrome Patients."  
Advisor: Wessells, Robert
4. **Joshwa, Bincy (Doctoral Student)**  
Department of Nursing, College of Nursing  
**Presentation Title:** "Determination of Fatigue in Dialysis Population: A Multidimensional Approach."  
Advisor: Vallerand, April
5. **Meyer, Danielle (Doctoral Student)**  
Department of Pharmacology, School of Medicine  
**Presentation Title:** "50 Grains of Sand: The Legacy Effects of Low-Level Chemical Exposures."  
Advisor: Baker, Tracie
6. **Palazzolo, Thomas (Doctoral Student)**  
Department of Computer Science, College of Engineering  
**Presentation Title:** "Performing Archaeology with Artificial Intelligence."  
Advisor: Reynolds, Robert
7. **Perry, Erin (Doctoral Student)**  
Department of Communication, College of Fine, Performing & Communication Arts  
**Presentation Title:** "How Do Journalist-Audience Relationships Online Affect the Perception of Journalists, News Products and the Profession?"  
Advisor: Vultee, Fred
8. **Piehl, Joshua (Doctoral Student)**  
Department of Mechanical Engineering, College of Engineering  
**Presentation Title:** "Explosions: Understanding Catastrophic Events for Power Generation."  
Advisor: Samimi-Abianeh, Omid
9. **Sharma, Akhil (Doctoral Student)**  
Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy and Health Sciences  
**Presentation Title:** "Protein Parkin - A Promising Drug Target for Methamphetamine Addiction."  
Advisor: Moszczynska, Anna

## ALUMNI PANEL DISCUSSION

**Chuck Jackson** is the president of Community Social Services of Wayne County (CSSWC). He earned a PhD in Sociology from Wayne State and brings nearly three decades of experience in human services organizations. Dr. Jackson started his career at Starr Commonwealth, where he rose from resident counselor to executive vice president and chief clinical officer. CSSWC has been providing a broad range of human services for 70 years in Southeast Michigan serving everyone from infants to senior citizens with the mission of rebuilding broken lives and restoring dignity.

**Cassandra Ulbrich** is president of the State Board of Education. She was elected in 2006 and re-elected in 2014 to serve a second eight-year term expiring January 1, 2023. The first in her family to attend college, Dr. Ulbrich earned a PhD in communication from Wayne State. She has spent the majority of her career in higher education administration. Currently she is the Vice President for College Advancement and Community Relations at Macomb Community College, where she oversees the marketing and communications, public relations, cultural affairs and the foundation. Before joining Macomb Community College in 2011, Dr. Ulbrich worked at Wayne State University for over ten years. Earlier in her career, she was press secretary to former U.S. House Democratic Whip David Bonior, acting as the official spokesperson for the Congressman.

**Marsha Parker** is a learning and development leader at Ford Motor Company and currently leads the transformation of instructional design services for the Global Learning and Development (L&D) organization. With more than 10 years in the field of instructional design and analytics, she is an experienced performance strategist, designer, and coach. Dr. Parker is a thought leader in analyzing learning trends, creating data driven organizations, and building internal people capability. Having received her PhD from Wayne State University in Instructional Technology and Design, Dr. Parker is a recognized speaker within the human performance industry and serves as adjunct faculty at University of Phoenix – Adult Education & Training and LaSalle University -Graduate program in Analytics.

**Gnanada Joshi** joined the Department of Biology at the University of Detroit Mercy in 2016 as an instructor and was promoted to assistant professor in 2018. She teaches anatomy and physiology, comparative anatomy, applied nutrition, advanced human anatomy to pre-health professional students and general biology courses. She is interested in studying the effects of low dose x-irradiation exposures in fruit flies and understanding the underlying DNA repair mechanisms associated with these exposures. She earned her PhD in biology from Wayne State in 2014.

## **THE GRADUATE SCHOOL CONTRIBUTING ADMINISTRATION AND STAFF**

Dr. Ingrid Guerra-Lopez, Interim Dean

Dr. Sharon Lean, Associate Dean, Student Services

Dr. Todd Leff, Associate Dean, Student Career Development

Dr. Sokol Todi, Associate Dean, Compliance and Postdoctoral Development

Kristy Case, Web Writer/Editor

Shantelle Cavin, Graduate Programs Outreach Specialist

Tricia Koufes, Manager, Dean's Office

Terri Renaud, Program Project Assistant

KaRie Jorah Rood, Event Specialist

Karen Schramm, Manager, Ph.D. Awards and Events

Caterina Schueler, Executive Assistant to the Dean of the Graduate School

Natalie Walker, Graduate Student Assistant

Amanda Walter, Graduate Student Assistant/Symposium Coordinator

Mary Wood, Program Director

*Special Thanks to Dr. Ambika Mathur, former Dean of the Graduate School*

## **BOARD OF GOVERNORS**

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