

# Graduate Research Symposium

February 28, 2024

Student Center Second Floor

5221 Gullen Mall, Detroit, MI 48201

# Event agenda

<b>7:30 am</b>	<b>Doors open</b> <i>Student Center</i>
<b>8:00-8:30 am</b>	<b>Breakfast</b> <i>Hallway</i>
<b>8:30-8:45 am</b>	<b>Opening remarks</b> Amanda Bryant-Friedrich, Graduate School Dean Laurie Lauzon Clabo, Acting Provost <i>Ballroom</i>
<b>8:45-9:00 am</b>	<b>Morning presenters set up posters</b> <i>Ballroom</i>
<b>9:00-10:30 am</b>	<b>Morning poster presentations</b> <i>Ballroom</i>
<b>10:30-10:45 am</b>	<b>Coffee break</b> <i>Hilberry</i>
<b>10:45-12:15 am</b>	<b>Morning platform talks</b> <i>Room 285</i>
<b>12:15-1:15 pm</b>	<b>Lunch</b> <i>Hilberry</i>
<b>1:15-2:45 pm</b>	<b>Afternoon platform talks</b> <i>Room 285</i>
<b>2:00-2:45 pm</b>	<b>Session 2 presenters set up posters</b> <i>Ballroom</i>
<b>2:45-3:00 pm</b>	<b>Coffee break</b> <i>Hilberry</i>
<b>3:00-4:30 pm</b>	<b>Session 2 poster presentations</b> <i>Ballroom</i>
<b>4:30-4:45 pm</b>	<b>Refreshments</b> <i>Hilberry</i>
<b>4:45-5:45 pm</b>	<b>Three-Minute Thesis Competition</b> <i>Hilberry</i>
<b>5:45-6:00 pm</b>	<b>Awards ceremony</b> <i>Hilberry</i>
<b>6:00-6:30 pm</b>	<b>Networking reception</b> <i>Hallway</i>

**MORNING POSTER PRESENTATIONS**  
**(all researchers with last names beginning with A – Me)**

**1. A. Corso-Gonzales, Ryan**

**Abstract title:** “Debunking ‘Debunked’: Ben Shapiro’s spectacle of neoliberal whiteness.”

*Communication*

**2. Abdulsalam, Hawau**

**Abstract title:** “Design and development of sulfated aminoglycosides for heparanase inhibition.”

*Chemistry*

**3. Abou Halloun, Jihan**

**Abstract title:** “Practical control laws with quantum computation.”

*Chemical engineering and material sciences*

**4. Adebayo, Daniel**

**Abstract title:** “The role of Mdm1 in regulating sphingolipid synthesis: Implications for aging.”

*Biological sciences*

**5. Akhlaq, Asra**

**Abstract title:** “Diet and insulin signaling promote oocyte health and fertilization in *Caenorhabditis elegans*.”

*Biological sciences*

**6. Akkarakaran Francis Leonard, Fnu**

**Abstract title:** “Cybersecurity, image-based control, process design and instrumentation selection.”

*Chemical engineering and material sciences*

**7. Akpo, Margaret Sena**

**Abstract title:** “Investigating the roles of self-avoidance cell adhesion molecules in muller glia morphology.”

*Anatomy and cell biology*

**8. Al-Homoudi, Abdullah**

**Abstract title:** “Shaping antiviral strategies with potent and selective non-covalent SARS-CoV-2 papain-like protease inhibitors.”

*Biochemistry, microbiology, and immunology*

**9. Alshammari, Eid**

**Abstract title:** “Structural basis and mechanism of regulation of USP10.”

*Biochemistry, microbiology, and immunology*

**10. Amarasinghe, Anjalie**

**Abstract title:** “Investigating the intersection of SIN3 metabolic gene regulation and metabolic stress on *Drosophila*.”

*Biological sciences*

**11. Amoo, Folake**

**Abstract title:** “Transition metal antimonides for magnetic refrigeration.”

*Chemistry*

**12. Anderson, Amber**

**Abstract title:** “Dress to impress? Examining the effect of uniforms on student outcomes.”

*Sociology*

- 13. Baiden, Isaac**  
**Abstract title:** “Loop diuretic resistance in a mouse model of cardiorenal syndrome.”  
*Physiology*
- 14. Bannoura, Sahar**  
**Abstract title:** “Regulating the regulator: RCC1 as a novel therapeutic target in pancreatic ductal adenocarcinoma.”  
*Oncology*
- 15. Bhatti, Sundus**  
**Abstract title:** “Brownfield projects in Detroit.”  
*Urban studies and planning*
- 16. Bozeman, Christian**  
**Abstract title:** “Claude McKay and the Workers' Dreadnought.”  
*History*
- 17. Cakmak, Furkan**  
**Abstract title:** “Response of UHPC flat plates to perpendicular axisymmetric concentrated loads.”  
*Civil and environmental engineering*
- 18. Carey, Rachel**  
**Abstract title:** “Socioeconomic status and delayed recall in a primarily Black sample: potential mediators and moderator.”  
*Psychology*
- 19. Carthage, Justin**  
**Abstract title:** “Chronic toluene exposure leads to increased locomotor activity in mice.”  
*Psychology*
- 20. Chawota, Takudzwa**  
**Abstract title:** “The impact of social connection preference behaviors on employee attitudes, behaviors and intentions.”  
*Psychology*
- 21. Chek, Carmen**  
**Abstract title:** “Affect intensity moderates the relationship between familiarity and memory for facial emotion.”  
*Psychology*
- 22. Cook, D’Arcy**  
**Abstract title:** “Behind closed doors: the Detroit incinerator, who knew what and when?”  
*History*
- 23. Dabaja, Mohamed**  
**Abstract title:** “How sensory neurons modulate oogenesis onset and oocyte fertilization in *C. elegans*.”  
*Biological sciences*
- 24. Davis, Eric**  
**Abstract title:** “Mass spectrometry combined with kinase-catalyzed crosslinking to study the phosphorylation-dependent.”  
*Chemistry*
- 25. Denison, Maddy**  
**Abstract title:** “Inactivation of cysteine cathepsins by Ru(II) photosensitizer.”  
*Chemistry*

- 26. Dennaoui, Rayane**  
**Abstract title:** “Cooperative functions of cytokine signaling through JAK1 and JAK2 in orchestrating postnatal mammary.”  
*Oncology*
- 27. Dharmadasa, Chamod**  
**Abstract title:** “Thermal ALD deposition of Er oxide thin film using a novel ALD Er precursor.”  
*Chemistry*
- 28. Dorandish, Sadaf**  
**Abstract title:** “Safety and efficacy of nanolipid encapsulated CD40 agonist antibody against pancreatic cancer.”  
*Applied health sciences*
- 29. Dutta, Meghna**  
**Abstract title:** “The good, the bad, and the evil: a content analysis on witch-hunting as a gendered phenomenon in Assam, India.”  
*Sociology*
- 30. Eichstaedt, Jillian**  
**Abstract title:** “1H fMRS demonstrates dACC glutamate modulation during inhibitory control may predict weight loss.”  
*Psychiatry and behavioral neuroscience*
- 31. Eringros, Nika**  
**Abstract title:** “The association of sleep quality with affect intensity and attention after traumatic brain injury.”  
*Psychology*
- 32. Faiaz, Abrar Nur E.**  
**Abstract title:** “Harnessing the potential of phi-bits: a step towards quantum-inspired computing.”  
*Mechanical engineering*
- 33. Flynn, Michael**  
**Abstract title:** “Role of the cell-surface serine protease matriptase in corneal epithelial homeostasis and repair.”  
*Pharmacology*
- 34. Fnu, Komal**  
**Abstract title:** “Development of small-molecule SOS1 inhibitor suppressing KRAS-driven cancers.”  
*Pharmacy*
- 35. Furlow, Olivia**  
**Abstract title:** “A prison to higher ed pipeline: the Education Transition Coordination Program.”  
*Sociology*
- 36. Ganesh, Sanjeev**  
**Abstract title:** “Role of ZFH3 in endometrial cancer progression.”  
*Oncology*
- 37. Goldman, Jennifer**  
**Abstract title:** “Factors influencing state-level abortion legislation.”  
*Political science*

- 38. Goldson, Aliyah**  
**Abstract title:** “Innate metabolic profiles are not correlated with variation in the exploratory behavior of zebrafish.”  
*Biological sciences*
- 39. Goyal, Tushar**  
**Abstract title:** “High-temperature n-heptane autoignition-assisted flame measurements and numerical study.”  
*Mechanical engineering*
- 40. Guha, Udayan**  
**Abstract title:** “Understanding the mechanism driving the interaction between ICP0 and ND10 complex in HSV-1 infection.”  
*Biological sciences*
- 41. Haas, Liz**  
**Abstract title:** “Sexual orientation and its association with anal pleasure among women.”  
*Social work*
- 42. Hakim, Lena**  
**Abstract title:** “Empowering student writers through application of the Hakawati tradition in curriculum.”  
*English*
- 43. Hasse, Timothy**  
**Abstract title:** “Mechanistic insights into ligand dissociation from the SARS-CoV-2 spike glycoprotein.”  
*Physics and astronomy*
- 44. Heldman, Samantha**  
**Abstract title:** “Exposure to liquid crystal monomer mixtures impacts zebrafish behavior, metabolism, and adiposity.”  
*Pharmacology*
- 45. Hill, LaKenya**  
**Abstract title:** “Exploring the medical experiences of Black women during the perinatal period using sista circles.”  
*Theoretical and behavioral foundations*
- 46. Hinchey, Liza**  
**Abstract title:** “Cortisol response to stress following trauma: a study of event centrality and sex-specific dynamics.”  
*Theoretical and behavioral foundations*
- 47. Hotor, Michael**  
**Abstract title:** “Design and synthesis of aminoglycoside-based heparan sulfate mimetics as heparanase inhibitors.”  
*Chemistry*
- 48. Islam, Radia**  
**Abstract title:** “The effects of highly recommended geriatric drugs on Alzheimer's  $\beta$ -amyloid aggregation.”  
*Medicine*
- 49. Jabbar Shah, Syed**  
**Abstract title:** “Clash relevance prediction to enhance BIM design coordination using artificial intelligence.”  
*Civil and environmental engineering*

**50. Jeffrey, Teresa**

**Abstract title:** “Driving magnetization dynamics within antiferromagnets using circularly polarized terahertz light.”

*Physics and astronomy*

**51. Joshi, Yogesh**

**Abstract title:** “Inhibiting innate immune activation improves Drosophila model of Vps13D-associated neurodegeneration.”

*Anatomy and cell biology*

**52. Kasturi Rangan, Keshav**

**Abstract title:** “Advances in next-generation cyber-physical systems: cybersecurity, quantum computing.”

*Chemical engineering and materials science*

**53. Khalid, Sonia**

**Abstract title:** “Chronic intermittent gestational morphine use impairs mouse maternal behavior development.”

*Psychiatry and behavioral neurosciences*

**54. Khanal, Bedan**

**Abstract title:** “Traffic conflicts as surrogate measure of highway safety: an analysis using video analytics method.”

*Civil and environmental engineering*

**55. Kola, Megi**

**Abstract title:** “Roles of photoreceptors and melanopsin ganglion cells in pupillary light reflex evoked by different.”

*Physiology*

**56. Kushwaha, Narvadeshwar**

**Abstract title:** “Discovery and development of potent and selective ku-targeted DNA-PK inhibitors for cancer therapy.”

*Pharmacy*

**57. Ladanyi, Heather**

**Abstract title:** “Older adults’ mindful reflections on perceived Health-Related quality of life.”

*Kinesiology, health and sport studies*

**58. Leavings, Chloe**

**Abstract title:** “Talkin' bout mama: identity safety cues in obstetric settings to reduce Black maternal mortality.”

*English*

**59. Lotvola, Aaron**

**Abstract title:** “c-Myc is downregulated by ABHD5 in prostate cancer cells.”

*Oncology*

**60. Mahmood, Kazi Tahsin**

**Abstract title:** “Elastic bits and berry phases: investigating topological phenomena in a classical granular network.”

*Mechanical engineering*

**61. Malin, Evan**

**Abstract title:** “Biological analysis of potent USP10 inhibitors for the treatment of AML and NSCLC.”

*Pharmacy*

**62. Mallika Arachchilage Dona, Kaveendya**

**Abstract title:** “BR-bodies in Sinorhizobium meliloti are critical for plant root colonization and symbiosis.”

*Biological sciences*

**63. Maxwell, DruAnne**

**Abstract title:** “Mixtures of per- and polyfluorinated substances (PFAS) alter sperm methylome in adult male mice.”

*Physiology*

**64. Maxwell, Anthony**

**Abstract title:** “Impact of maternal benzene exposure of fetal lung T cells.”

*Physiology*

**65. Meade, Marcus**

**Abstract title:** “This is not for us: an analysis of Black male archetypes in the television series ‘This is Us’.”

*Communication*



## MORNING PLATFORM TALKS

**1. Elhajjaji, Ziad**

**Abstract title:** “Assessing novel orthostatic vital signs with a wearable sensor.”  
*Electrical and computer engineering*

**2. Gonzales, Aaron**

**Abstract title:** “Topographical effects on astrocyte behavior.”  
*Chemical engineering and materials science*

**3. Singh, Harman**

**Abstract title:** “Paleo-games.”  
*Computer science*

**4. Arnold, Maddox**

**Abstract title:** “Gender through genre: the use of literary genre to depict a transgender journey.”  
*Classical modern languages, literatures and cultures*

**5. Brown, Dionna**

**Abstract title:** “Understanding public attitudes on government action amidst the climate crisis.”  
*Sociology*

**6. Saha, Tamalika**

**Abstract title:** “Occurrence of pesticides in urban soils in Metro Detroit.”  
*Environmental science and geology*

**7. Shulman, Aimee**

**Abstract title:** “‘Civilized’ captives, ‘savage’ narratives: captivity narratives and Native American displacement.”  
*History*

**8. Sochocki, Rachel**

**Abstract title:** “Uncontrolled eating differentiates weight loss maintainers from regainers.”  
*Nutrition and food science*

## AFTERNOON PLATFORM TALKS

### 1. Akcasu, Nora

**Abstract title:** “Cancer providers’ experiences and barriers in addressing patient cost concerns: a qualitative analysis.”

*Family medicine and public health sciences*

### 2. Buchanan, Courteney

**Abstract title:** “Promotions are too much work: an employee-centric approach to promotion decline.”

*Business*

### 3. Hosanna, Fukuzawa

**Abstract title:** “From photos to phantasmagrams: feeling the degenerate future in twentieth-century Japan.”

*Social work*

### 4. Harrison, Desiree

**Abstract title:** “Disrupting barriers: exploring preservice teacher agency development in teaching mathematics.”

*Teacher education*

### 5. Loetzner, Franziska

**Abstract title:** “Exploring health-related physical fitness in elite-level Special Olympics Unified Sports.”

*Kinesiology, health and sport studies*

### 6. Nguyen, Annie

**Abstract title:** “Gestational benzene exposure leads to sexually dimorphic adaptations along the placenta-brain axis.”

*Psychiatry and behavioral neurosciences*

### 7. Porter, Alexandra

**Abstract title:** “Constructing Instagram’s ideal woman user: a critical discourse analysis of New York Times coverage.”

*Communication*

### 8. VanNostrand, Michael

**Abstract title:** “Exploring perceptions of physical activity in individuals newly diagnosed with multiple sclerosis.”

*Pharmacy and health sciences*

### 9. Zakaria, Muhammad

**Abstract title:** “Determinants of patients' satisfaction in medical consultations in Bangladesh.”

*Communication*

**AFTERNOON POSTER PRESENTATIONS**  
**(all researchers with last names beginning with Med – Z)**

**1. Medagedara, Hasini**

**Abstract title:** “A fundamental insight into B state exciton delocalization in acetylene-bridged Zn porphyrin dimers.”

*Chemistry*

**2. Miller, Samantha**

**Abstract title:** “A longitudinal health promotion program for children on the autism spectrum and their caregivers.”

*Kinesiology, health and sport studies*

**3. Miller, Jake**

**Abstract title:** “Understanding supermassive black hole accretion disks using remote robotic observatories.”

*Physics and astronomy*

**4. Moazzeni, Alireza**

**Abstract title:** “Enhancing RRAM device performance: a design of experiments (DOE) approach.”

*Electrical and computer engineering*

**5. Monaghan, Patrick**

**Abstract title:** “Assessing the reliability of the step test evaluation of performance on stairs in multiple sclerosis.”

*Health care sciences*

**6. Moutard, David**

**Abstract title:** “Verifying and analyzing ultra-compact systems.”

*Physics and astronomy*

**7. Muczynski, Michael**

**Abstract title:** “Biochemical and structural characterization of second-generation inhibitors targeting the SARS-CoV-2 3CLprotease.”

*Biochemistry and molecular biology*

**8. Mulbauer, Greta**

**Abstract title:** “C2C12 myoblast culture in hyaluronic acid & dECM-based hollow fibers for skeletal muscle regeneration.”

*Biomedical engineering*

**9. Nagarajan, Sudhan**

**Abstract title:** “Cost-effective and fast charging Li-ion battery design free from critical raw materials.”

*Mechanical engineering*

**10. Naqvi, Danial**

**Abstract title:** “Biochemical diversity amongst calyx only afferents in the vestibular nuclear complex.”

*Anatomy and cell biology*

**11. Nieman, Kip**

**Abstract title:** “Considerations of control on quantum computers using a modified grover’s algorithm.”

*Chemical engineering and materials science*

- 12. Nosanchuk, Lolo Katz**  
**Abstract title:** “Collaborative practices and the art market.”  
*Art and art history*
- 13. Nowak, Karolina**  
**Abstract title:** “Single-cell RNA sequencing of PFAS exposed mice testes – preliminary study.”  
*Biochemistry and molecular biology*
- 14. Nuppenau, Mark**  
**Abstract title:** “Cultural algorithm guided evolution of dense blocks with attention for CheXpert.”  
*Computer science*
- 15. Nwanelo, Valentine**  
**Abstract title:** “Transcriptional activation of progesterone receptor (PR) is modulated by histone deacetylase 7.”  
*Chemistry*
- 16. Odewale, Elizabeth**  
**Abstract title:** “Assessing cooperativity in collective molecular light absorption under cavity polariton formation.”  
*Chemistry*
- 17. Osama, Muhammad**  
**Abstract title:** “Breakup regimes of the long-time dynamics of a finite-size air filament in a dense fluid.”  
*Mechanical engineering*
- 18. Ostrom, Kate**  
**Abstract title:** “‘The desert clings to us’: tracing borderscapes through the U.S.-Mexico middle place.”  
*Classical and modern languages, literatures and cultures*
- 19. Oyewumi, Tolulope**  
**Abstract title:** “The study of human histidine kinase substrates via kinase-catalyzed biotinylation.”  
*Chemistry*
- 20. Pall, Ashley**  
**Abstract title:** “The characterization of iron targeting drugs in treating Friedreich's ataxia.”  
*Pharmacy*
- 21. Pangeni, Susheel**  
**Abstract title:** “Myo16a is a slow ATPase motor.”  
*Physics and astronomy*
- 22. Partha, Debatosh Banik**  
**Abstract title:** “Impacts of global snowpack-induced NO<sub>x</sub> emissions on atmospheric chemistry and air quality.”  
*Civil and environmental engineering*
- 23. Paskavitz, Amanda**  
**Abstract title:** “Sperm methylation variability predicts time-to-pregnancy in couples from the general population.”  
*Molecular medicine and genetics*
- 24. Patil, Sushmita**  
**Abstract title:** “Angiogenic receptors in kidney endothelial cells: Implications for diabetes and semaphorin signaling.”  
*Physiology*

**25. Pereira, Bianca**

**Abstract title:** “Electrical synaptic proteins regulate a stress-induced developmental program and longevity.”

*Biological sciences*

**26. Pham, Tri**

**Abstract title:** “Characterization of ATC-324: an AUTOTAC-based androgen receptor degrader for prostate cancer.”

*Pathology*

**27. Pinto, Nelson**

**Abstract title:** “The Impact of Interdisciplinary Cooperation on Students' Perspective of Treatment of Patients.”

*Family medicine and public health sciences*

**28. Pivezhandi, Mohammad**

**Abstract title:** “HMARL: an energy- and thermal-aware scheduler for OpenMP DAG workloads.”

*Computer science*

**29. Porath, Anthony**

**Abstract title:** “The relationship between porosity and defectivity in high surface area porous aromatic frameworks.”

*Chemistry*

**30. Praneeth, Sai**

**Abstract title:** “From ash to oxides: an organic solvent-free process for recovery of rare-earth elements from coal ash.”

*Civil and environmental engineering*

**31. Prifti, Matthew**

**Abstract title:** “Metformin’s effect on lifespan and healthspan in Drosophila models of polyglutamine disease.”

*Pharmacology*

**32. Rahman, Arifur**

**Abstract title:** “Proteomic profiling of PNPLA3 mutants in human hepatocytes reveals potential pathways in NAFLD.”

*Applied health sciences*

**33. Rajput, Neha**

**Abstract title:** “Mapping the neural basis of individual differences in the behavior of adult zebrafish.”

*Biological sciences*

**34. Rana, Rima**

**Abstract title:** “Defining the molecular mechanisms of DSCAM-mediated self-avoidance.”

*Pharmacology*

**35. Ranxhi, Bedri**

**Abstract title:** “Polyamines in Parkinson's: serum markers and Drosophila insights.”

*Pharmacology*

**36. Raoufi, Gelareh**

**Abstract title:** “AI-powered tools for middle school health education.”

*Teacher education*

- 37. Renaud, Michelle**  
**Abstract title:** “Examining the impact of yoga and mindfulness on perceived caregiver stress and burden.”  
*Kinesiology, health and sport studies*
- 38. Richardson, Erica**  
**Abstract title:** “Rapid adaptation to prevent drug use (RAPD): baseline teacher perceptions to inform RAPD deployment.”  
*Kinesiology, health and sport studies*
- 39. Rinky, Afsana**  
**Abstract title:** “Analysis of KCI’s OCHECE RAC research capacity.”  
*Family medicine and public health sciences*
- 40. Riser, Manessa**  
**Abstract title:** “Childhood anxiety may predict PTSD symptoms in early adolescent females, but not males.”  
*Psychiatry and behavioral neuroscience*
- 41. Roberts, Christopher**  
**Abstract title:** “Influence of ventricular size and surgical approach on flow distribution in ventricular catheters.”  
*Chemical engineering and materials science*
- 42. Saad, Sarah**  
**Abstract title:** “Simulating impact of climate change on caribou migration pathways in the Alpena-Amberley Land Bridge.”  
*Computer science*
- 43. Safdar, Maryam**  
**Abstract title:** “Exercise mimetics rescue endurance and climbing speed in *Drosophila* circadian mutants, CLKOUT.”  
*Physiology*
- 44. Sakr, Ahmed**  
**Abstract title:** “Environmental leaching assessment for beneficial reuse of digested acidic fly ash.”  
*Civil and environmental engineering*
- 45. Samarbakhsh, Amirreza**  
**Abstract title:** “Discovery and development of broad-spectrum antiviral therapeutics by targeting PL protease.”  
*Pharmaceutical sciences*
- 46. Sarker, Jaydeb**  
**Abstract title:** “An explainable toxicity detection for software developers communication.”  
*Computer science*
- 47. Sawant, Savni**  
**Abstract title:** “Associations between sperm epigenetic age and semen parameters.”  
*Biochemistry, microbiology and immunology*
- 48. Schulz, Carly**  
**Abstract title:** “Provider perspectives on addressing the financial impact of cancer: resources and ways of addressing.”  
*Family medicine and public health sciences*

- 49. Schwing, Greg**  
**Abstract title:** “A combinatorial graph algorithm implemented on the GPU and parameter optimization using Gaussian Pro.”  
*Computer science*
- 50. Scofield, Sydney**  
**Abstract title:** “Volatile organic compounds (VOCs) at occupational levels predispose male mice to metabolic disease.”  
*Biological sciences*
- 51. Seilo, Stella Mocerri**  
**Abstract title:** “International teacher-to-teacher Zoom interactions during the COVID-19 pandemic: a digital ethnographic study.”  
*Teacher education*
- 52. Sergeant, Mike**  
**Abstract title:** “Fitness tradeoffs among cultivar-associated populations of an incipient insect agricultural pest.”  
*Biological sciences*
- 53. Shaible, Tierney**  
**Abstract title:** “Variation in biodiversity of soil-dwelling arthropods in an urban environment.”  
*Biological sciences*
- 54. Sharda, Sukriti**  
**Abstract title:** “Inclusion, exclusion and team dynamics: unpacking leader behavior, psychological safety, and moderator.”  
*Business*
- 55. Shi, Chenjun**  
**Abstract title:** “Photoacoustic-Brillouin multimodal imaging modality.”  
*Biomedical engineering*
- 56. Shrestha, Deepak**  
**Abstract title:** “Structural impacts of amino acid-linked platinum complexes on oligonucleotides.”  
*Chemistry*
- 57. Siegel, Kyle**  
**Abstract title:** “In vitro endocrine and cardiometabolic toxicity of artificial turf materials.”  
*Pharmacology*
- 58. Slane, Elizabeth**  
**Abstract title:** “Flame retardant-induced neural cell death.”  
*Applied health sciences*
- 59. Sultana, Shanmin**  
**Abstract title:** “Impact of sensory processing on aggression in children: retrospective analysis of clinical data.”  
*Health care sciences*
- 60. Sunday, Mfon**  
**Abstract title:** “Computational design of Clytia gregaria green-fluorescent protein(cgreGFP) as an anion sensor.”  
*Chemistry*

- 61. Tapayan, April Sweet**  
**Abstract title:** "Heparan sulfate trisaccharide mimetic for Alzheimer's disease therapeutics."  
*Chemistry*
- 62. Tartamella, Jacob**  
**Abstract title:** "Design and synthesis of small molecule covalent inhibitors for SARS-CoV-2 PLpro."  
*Pharmacy*
- 63. Thibodeau, Jenna**  
**Abstract title:** "Cystathionine- $\beta$ -synthase activity in AraC response in myeloid leukemia associated with Down syndrome."  
*Oncology*
- 64. Tihamiyu, Rachael**  
**Abstract title:** "Mutagenesis to understand the interplay between the two histone deacetylases 6 catalytic domains."  
*Chemistry*
- 65. Toor, Jugmohit**  
**Abstract title:** "Targeting MAIT cells as a novel immunotherapy for pancreatic cancer liver metastasis."  
*Oncology*
- 66. Ullrich, Alexander**  
**Abstract title:** "Photodynamic therapy influences intratumoral macrophages and induces anti-tumor immunity."  
*Cancer biology*
- 67. Vo, Thanh Phat**  
**Abstract title:** "Newtonian methods in nonsmooth optimization via the lens of variational analysis."  
*Mathematics*
- 68. Wallace, Bakari**  
**Abstract title:** "'They Care About Their Kids': schools, Black fathers, and the reproduction of anti-Black misandry."  
*Social work*
- 69. Wang, Qisen**  
**Abstract title:** "IoTEC - a novel sensor network for real-time monitoring of vapor intrusion in urban environments."  
*Civil and environmental engineering*
- 70. Weaver, Destiny**  
**Abstract title:** "Empathy and affect recognition and memory as predictors of community integration."  
*Psychology*
- 71. Webster, Anthony**  
**Abstract title:** "They just want our faces, but they don't want our experiences."  
*Administration and organizational studies*
- 72. Wood, Kenneth**  
**Abstract title:** "Glucose sensor-induced extracellular trap formation impair implant performance."  
*Biomedical engineering*
- 73. Zamiri, Alaleh**  
**Abstract title:** "ABHD5 activation initiates ferroptotic cell death in radioresistant HPV(-) HNSCC."  
*Pathology*



**74. Zhang, Chencheng**

**Abstract title:** “The deep dive VR system.”

*Computer science*

**75. Zhao, Fei**

**Abstract title:** “Mild intermittent hypoxia may alleviate autonomic dysfunction in individuals with spinal cord injury.”

*Health care sciences*

**76. Zieleniewski, Alessandra**

**Abstract title:** “Utilizing dCas9 as a tool in observing the function of SIN3 in gene repression.”

*Biological sciences*

## THREE-MINUTE THESIS COMPETITION

1. **Black, Sarah**  
**Presentation title:** “Screening the neighborhood: using plants and insects to detect belowground plumes.”  
*Biological sciences*
2. **Heldman, Samantha**  
**Presentation title:** “From broken screens to broken seams: can exposure to LCMs contribute to obesity?”  
*Pharmacology*
3. **Hinchey, Liza**  
**Presentation title:** “Too much, too little, or just right: the surprising risks of low-stress hormone.”  
*Theoretical and behavioral foundations*
4. **Joshi, Yogesh**  
**Presentation title:** “Connection between mitophagy defects and immune activation in the neurodegenerative disease.”  
*Anatomy and cell biology*
5. **Nagarajan, Sudhan**  
**Presentation title:** “Is your EV often running out of charge? Here is the eco-friendly solution.”  
*Mechanical engineering*
6. **Ostrom, Kate**  
**Presentation title:** “Signs of crossing: tracing borderscapes through the U.S.-Mexico middle place.”  
*Classical modern languages, literatures and cultures*
7. **Pathiranage, Vishaka**  
**Presentation title:** “Rational design of chloride sensors for living cells.”  
*Chemistry*
8. **Takla, Taylor**  
**Presentation title:** “Fear of falling: an interplay of neural, motor, and cognitive factors.”  
*Psychiatry and behavioral neuroscience*
9. **Torres, Rachel**  
**Presentation title:** “‘They just want our faces, but they don't want our experiences’: amplifying Black voices in Ph.D.”  
*Teacher education*