

Fryday, March 1st, MAS Symposia

MAS Scholar Symposium

1. Mississippi INBRE Graduate/Post Graduate Scholars Symposium Honoring Excellence in Science in Mississippi

Symposium Chair: Dr. Alex Flynt, Program Coordinator, Mississippi INBRE
The University of Southern Mississippi, Hattiesburg, MS

Session Co-Chairs & Moderators: Dr. Shrinidhi Ambinakudige, Mississippi State University Ambinakudige, Shrinidhi (shrinidhi@geosci.msstate.edu), and Dr. K. Raja Reddy, Mississippi State University (krreddy@pss.msstate.edu)

3-Minute Orals – 10:00 AM to 12 Noon, 1st March 2024

Room – Theater, Thad Cochran Convention Center Hattiesburg, MS

1. **Tolulope Ayo.** Delineation of molecular mechanisms that underlie TNF- α release from mast cells. University of Southern Mississippi. Advisor: Dr. Hao Xu.
2. **Puneeth Kumar Bolugallu Padmayya.** Digital anatomy viewer: a novel approach to medical education. Alcorn State University. Advisor: Dr. Ping Zhang.
3. **Caroline Doherty.** COVID-19 vaccination perceptions in Mississippi youth. University of Mississippi Medical Center School of Medicine. Advisor: Dr. Caroline Compretta.
4. **Davin Francis.** A quantitative analysis of the predictors of depression stigma and help-seeking attitudes. Jackson State University. Advisor: Dr. Pamela G. Banks.
5. **Alexis Hartley.** Using animations and videos of 3D crystalline structures to aid in teaching chemistry work-in-progress. Delta State University. Advisor: Dr. Joe Bentley.
6. **Derek Hoffman.** Description of the most complete dinosaur in Mississippi: a hadrosaur from an early Campanian locality in the Coffee Formation, Prentiss County. University of Southern Mississippi. Advisor: Dr. Alyson Brink.
7. **Tatyana Hollingbird.** Developing sweetpotato germplasm with enhanced performances by using agrobacterium-mediated transformation. Alcorn State University. Advisors: Dr. Chuquan Zhang & Dr. Yan Meng
8. **Nazmul Hosen.** Low molecular weight electrogenerated chemiluminescence probes (LMEPs) for the detection of nerve agent mimic. University of Southern Mississippi. Advisors: Dr. Wujian Miao & Dr. Karl J. Wallace.
9. **Mohammad Ibrahim.** Developing a New ICP-OES method to measure mercury levels in shellfish. Mississippi College. Advisor: Dr. Scoty Hearst.
10. **Shazeed-Ul Karim.** Novel nanocomposite drug delivery system for SARS-CoV-2 infections. The University of Southern Mississippi. Advisor: Dr. Fengwei Bai.
11. **Francis Kekessie.** Development of an organocatalyzed nucleophilic addition of masked acyl cyanides to azomethine imines. The University of Southern Mississippi. Advisor: Dr. Julie Pigza.
12. **Madison Klim.** Azithromycin ameliorates hypoxia-ischemia-induced sensorimotor impairments and brain inflammation in neonatal rats. University of Mississippi Medical Center. Advisor: Dr. Lir-Wan Fan.

13. **Amisha Parekh.** Magnesium-doped hydroxyapatite anodization coatings on titanium solid and 3D printed implant surfaces. University of Mississippi Medical Center. Advisor: Dr. Michael D. Roach.
14. **Ryan Phillips.** Rotting logs through the seasons: Drivers of thermal buffering in the microhabitat of temperature-sensitive organisms. University of Mississippi. Advisor: Dr. Ryan Garrick.
15. **Randal Roberts.** Using convolutional neural networks for integrated GPS/INS navigation. Mississippi State University. Advisor: Dr. Umar Iqbal.
16. **Ramandeep Kumar Sharma.** Climate trends and maize production nexus in Mississippi: empirical evidence from ARDL modeling. Mississippi State University. Advisor: Dr. Jagmandeep Dhillon.
17. **Namita Sinha.** Interaction of corn hybrid, plant population and nitrogen rate to mitigate preharvest mycotoxin contamination in corn. Mississippi State University. Advisor: Dr. Jagmandeep Dhillon.
18. **Bala Subramanyam Sivarathri.** Influence of biostimulants on emergence and seedling vigor under low and high temperatures. Mississippi State University. Advisor: Dr. Raju Bheemanahalli
19. **Faizan Tahir.** Honeybee *Apis mellifera* L. Responses to oxidative stress induced by pharmacological and pesticide compounds. University of Southern Mississippi. Advisor: Dr. Shahid Karim.
20. **Naflath Thenveetil.** Sub-optimal water levels can impede the growth and development of *Centella asiatica* (L.), a novel salad crop for Mississippi. Mississippi State University. Advisor: Dr. K. Raja Reddy.
21. **Courtney Wynn.** Gene expression and functional analysis of silk gland-specific UGT gene in moths. Mississippi State University. Advisor: Dr. Seung-Joon Ahn.
22. **Michel Zahorec.** Magnesium-doped hydroxyapatite anodization coatings on titanium solid and 3D printed implant surfaces. Florida State University. Advisor: Dr. Zina Ward.