Graduate Oral Presentations

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|  |  | **CAPITOL BALLROOM – MORNING SESSION GROUP A** |
| ***CODE*** | ***TIME*** | **ABSTRACT TITLE-PRESENTER-INSTITUTION** |
|  |  | GROUP A |
| **GSO6** | 8:30 – 8:55 | **Investigating the Expression of PIWI in Resistant and Susceptible Strains of Biomphalaria glabrata Post S. mansoniInfection Using a Series of Cell and Molecular Biological Techniques.**Odain Stewart. *University Of The District Of Columbia* |
| **GSO7** | 8:55 – 9:20 | **Feline Coronavirus Influences the Biogenesis and Composition of Extracellular Vesicles Derived from CRFK Cells**Sandani Wijerathne. *Alabama State University* |
| **GSO8**  | 9:20 – 9:45 | **A Study of the Postmortem Soil Microbial Communities Associated With Rat Decomposition**Tyria High. *Alabama State University* |
| **GSO9** | 9:45 – 10:10 | **Biologically Relevant Conditions Significantly Upregulate Virulence Target Expression in *Pseudomonas aeruginosa* strain PA14**Amber Grace. *Alabama State University* |
| **GSO10** | 10:10 – 10:35 | **Canine Coronavirus Infection Alters the Cell Derived-Extracellular Vesicles Biogenesis and Pharmacological-Mediated Cellular Activity**Rachana Pandit. *Alabama State University* |
| **GSO11** | 10:35 – 11:00 | **Admixing chlamydial MOMP with dmLT adjuvant enhances TLR-2 expression and Th1 immune responses in murine macrophages.**Clemence Nguiakam Sipowe. *Alabama State University* |
| **GSO12** | 11:25 – 11:50 | **Cationic Lipo-Oligopeptides (CLOPs) display in-vitro antiviral activity against Herpes Simplex Virus Type 1**Othreniel Forte. *Alabama State University* |
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|  |  | **SALONS A&B – MORNING SESSION GROUP B** |
| **FCO1** | 8:30 – 8:55 | **Cross-Curricular Course-Based Undergraduate Research Experiences (CURES) at Bowie State University**George Ude, *Bowie State University* |
| **GSO13** | 8:55 – 9:20 | **Effect of Getah Virus Infection on Cancer Cells *In-Vitro***Bernard Efa. *Alabama State University* |
| **GSO14**  | 9:20 – 9:45 | **Photosynthesis and application of cyanobacteria: forensic detection of microorganisms**Ibrahim Alamin. *Alabama State University* |
| **GSO15** | 9:45 – 10:10 | **Differential Analysis of Exosomes and Ectosomes from Diverse Adenovirus 48 infected Cells**Chioma Ezeuko. *Alabama State University* |
| **GSO16** | 10:10 – 10:35 | **Exploring the role of rhizosphere microbiome in hemp plant growth and defense against two-spotted spider mites**Ivy Thweatt. *Alabama State University* |
| **GSO18** | 10:35 – 11:00 | **CBD-resistant *Salmonella* Strains Are Susceptible to Epsilon 34 Phage Tailspike protein**Ibrahim Iddrisu. *Alabama State University* |
| **GSO19** | 11:25 – 11:50 | **Impact of pesticides on phyllosphere microbial communities of hemp plants**Abi Awad. *Alabama State University* |
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|  |  | **CAPITOL BALLROOM – AFTERNOON SESSION** |
| **GSO2** | 1:45 – 2:10 | **Nanotube Nexus: Exploring Health Impacts, Signaling Pathways, and Environmental Interactions**Manisha Thakur. Southern University And A&M College |
| **GSO3** | 2:10 – 2:35 | **Diesel Particulate Extract and Cellular Dynamics: Unraveling SUMOylation's Impact on Inflammation and Apoptosis in Alveolar Epithelial Cells**NANDINI BIDARIMATH. *Southern University And A&M College* |
| **GSO4** | 2:35 – 3:40 | **"Environmental Perils: Pentachlorophenol, Tetrachlorohydroquinone, and Their Legacy"**Ranjeeth Reddy Kondati. *Southern University And A&M College* |
| **GSO5** | 4:00 – 4:25 | **Investigating Virtual Reality Adoption in Education: An** **Elicitation Study of Students’ Salient Beliefs**Devender Rapolu. *Southern University And A&M College* |
| **GSO17** | 4:25 – 4:50 | **The Impact of Sorbent Amendments for Mercury Remediation on the Viability of Microorganisms in East Fork Poplar Creek (EFPC) Bank Soils**Jeffrey Ogbudu. *Alabama State University* |
| **GSO20** | 4:50 – 5:15 | **Exploring the Higher Prevalence of Hypertension among African Americans: A Focus on Lifestyle Factors**Joshua Umoru. *Huston-Tillotson University* |
| **GSO1** | 5:15 – 5:40 | **Proteasome Stmphony: Lipid Rafts and Exosomes As Key Players in E-cigarettte-Induced Inflammation**Dhruthi Mutyala,  *Southern University And A&M College* |
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|  |  | **UNDERGRADUATE ORAL PRESENTATIONS** |
|  |  | **SALON D– MORNING SESSION**  |
| ***CODE*** | ***TIME*** | **ABSTRACT TITLE-PRESENTER-INSTITUTION** |
| **CMPE2** | 9:00 – 9:25 | **Did Prices and Technological Advancements Play Significant Roles In U.S. Supply of Bell Peppers From 1970-2021?**Christian Jacobs. Southern University And A&M College |
| **CMPE3** | 9:25 – 9:50 | **Design and Fabrication of 3D Proximal Tubule Scaffolds for Renal Function and Tissue Engineering**Faith Smith. Alabama State University |
| **CMPE4** | 9:50 – 10:15 | **Access Disparities in Collegiate Athletics - A Comparative Analysis of HBCU and PWI**Morgan McQueen. Southern University A&M College |
| **CMPE5** | 10:15 – 10:40 | **Using Smartphone Technology in Real-Time Field Soil Health Assessment** Chasity Joseph. Southern University And A&M College |
| **PSE1** | 10:40 – 11:05 | **Evaluating Social Determinants of Health Among an Older Adult Population in Kentucky**Ellis Jackson. University Of Kentucky /Kentucky State University |
| **PSE2** | 11:05 – 11:30 | **Sustaining 1890 Land-Grant Programs by Demystifying Stereotypical Perceptions Toward African-Americans, Blacks, or Brown Peoples' Participation in Agriculture and Agricultural-related Industries**Jensine Crowder. Kentucky State University |
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|  |   | **UNDERGRADUATE ORAL PRESENTATIONS****SALON D – AFTERNOON SESSION** |
| **BIO3** | 2:00 – 2:25 | **Perceptions of Health Care Communication and Trust Related to Colorectal Cancer Screening among Black American Adults**Segen Mussie. Kentucky State University |
| **BIO4** | 2:25 – 2:50 | **Infant Mortality Rate: Global Disparities and Possible Underlying Causes**Ariell Dunkley. Kentucky State University |
| **BIO5** | 2:50 – 4:15 | **Postmortem Microbial Communities Associated With Criminal Cadavers**Jacalyn Thomas. Alabama State University |
| **BIO6** | 4:15 – 4:40 | **Suppressor of Cytokine Signaling (SOCS) 1 Regulates IFN-γ Signaling in *Chlamydia muridarum*-Stimulated Mouse Macrophages**Vanella Tadjuidje. Alabama State University |
| **BIO2** | 4:25 – 4:50 | **Eco-Physiological Effects of Copper on Sunflower and Corn**Rayan Demery.  Southern University At New Orleans |
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Graduate Poster Presentations

**FCP1**

**Detoxification Gene Expression Variation in Two-Spotted Spider Mites Feeding on Different Hemp Cultivars**

**Junhuan Xu.** Alabama State University

**GSP1**

**The Effects of Adipokines Leptin and Adiponectin on Cardiovascular HealthJasmine Redmond. Mississippi Valley State University**

Jordan Johnson. *Mississippi Valley State University*

**GSP2**

**Antimicrobial resistance in Methicillin-Resistant *Staphylococcus aureus* (MRSA) infections based on geographical region**

**Jasmine Redmond**. *Mississippi Valley State University*

**GSP3**

**Exploring Cultural Nuances in Adolescent Ghanaian and Kenyan Students Using Quantitative Ethnography**

**Leah-Maria Gaskin**. *Southern University A&M College*

**GSP4**

**Seasonal variation and effect of pesticidal compounds on aquatic microbial communities**

**Nur E Alam**. *Alabama State University*

**GSP5**

**Changes in water chemistry and microbial communities at different locations of Alabama River in the summer season**

**Jannatul Ferdous Jhumur***. Alabama State University*

**GSP6**

**Metagenomics analysis of the microbial diversity and quantitative co-relationship to the pharmaceutical and pesticide compounds in different seasons in Alabama River, Montgomery**

**Khabir Md Imam U**l. *Alabama State University*

Undergraduate Poster Presentations

**PSUG1**

**Analysis of Translation Initiation in Response to Integrated Stress Response Pathway Activation**

**Brynne J. Darden.** *Hampton University*

**PSUG2**

**Characteristics of Mycobacteriophage AdamB1 and AdamB2**

**Montaja McMullen-Crockett**. *Norfolk State University*

**PSUG3**

**Progression of Bathrachocytrium dendrobatidis life cycle stages affected by the presence of hard keratin**

**Treshur Williams-Carter**. *Fort Valley State University*

**PSUG4**

***In Vitro* Interaction between Barium Chloride and Pyrimethamine against *Toxoplasma gondii* growth**

**Nicholas Haas**. *University Of Tennessee at Martin*

**PSUG5**

**Effect of milk on *Escherichia coli* metabolite colibactin production and its impact on breast cancer cells**

**Jasmine Whitlow**. *Alabama State University*

**PSUG6**

***Synthesis and Bio-Compatibility Studies on Cerium Oxide Nanoparticles in Human Epithelial Skin Cells***

**Kimani Kelly**. *Norfolk State University*

**PSUG7**

**Maternal *Staphylococcus aureus* Mastitis Immunomodulatory Treatment Effect on the Stomachs of Nursing Pups**

**Nadira Muhammad**. *Tuskegee University*

**PSUG8**

**Tumor Microenvironment Pressures on Hyaluronic Acid Biosynthesis in Glioblastoma**

**Audi Hicks**. *Kentucky State University*

**PSUG9**

**Investigating Growth Conditions of Marsh Grasses for Production of Lipoxygenase Inhibitors**

**Nia White**. *Norfolk State University*

**PSUG10**

**Surveying Airborne Bacteria in Carver Hall**

**Bayleigh Oliver**. *Kentucky State University*

**PSUG11**

**A Comparative Physiological Analysis of the Effects of Ammonium Nitrate on Amphibian and Fish in the Usage of Chitosan Remediation**

**KMya Saddler**. *Norfolk State University*

**PSUG12**

**The Impact of Creosote on Blue Crab Immune Function**

**Indigo Peterson**. *Norfolk State University*

**PSUG13**

**Kentucky’s PFAS Awareness Database**

**Timaia Sugars**. *Kentucky State University*

**PSUG14**

**HPLC and LCMS analysis shows beta-ketoglutarate overflow in cyanobacteria.**

**Khadijah Taite**. *Alabama State University*

**PSUG15**

**Nitrate depletion in the growth medium inhibits pyruvate overflow in cyanobacteria**

**Arielle Lee**. *Alabama State University*

**PSUG16**

**CBD-Resistant Salmonella reverts after Zinc sensitization**

**Daron Johnson**. *Alabama State University*

**PSUG17**

**The Susceptibility of *Xenopus laevis* to selected strains of bacterial infection.**

**Zeenat Abdulsalam**. *Alabama State University*

**PSUG18**

**Proton Ions in the Growth Medium Inhabit Pyruvate Overflow in Cyanobacteria**

**Lydia Davies**. *Alabama State University*

**PSUG19**

**Leveraging Hydrophobic and Hydrogen Bonding Interactions to Synthesize Novel Molecularly Imprinted Polymeric Nanoparticles for PFAS Sensor Development**

**Sinclair Strong**. *Fisk University*

**PSUG20**

**Multi-Domain Molecularly Imprinted Polymeric Nanoparticles via Hydrogen Bonding Interactions for Selective Capture and Release Applications.**

**Aqeel Dawson**. *Fisk University*

**PSUG21**

**Acute Toxicological Effects of Copper on Palaemonetes pugio L.**

**Charrel Williams**. *Southern University at New Orleans*

**PSUG22**

**Synthesis of Biocompatible Aminooxy Polyglycidol Derivatives for Tissue Engineering Applications**

**Sierra McClain**. *Fisk University*

**PSUG23**

**System Analysis of Social Media**

**Kydale Redmond**. *Southern University and A&M College*

**PSUG24**

**Progress on Contouring Tree-Based AMR Grids**

**Aaron Levy**. *Southern University and A&M College*

**PSUG25**

**Calibration and Learning Key Points for Bimanual Manipulation**

**Yvonne Obukehwo**. *Huston-Tillotson University*

**PSUG26**

***In Vitro* Activity of Hemp Extract and its Mechanism of Action Against *Toxoplasma gondii***

**Victory Obele**. *Alabama State University*

**PSUG27**

**Transcranial Magnetic Stimulation and White Matter Integrity in People Who Smoke**

**Donavyn Mosley**. *Kentucky State University*

**PSUG28**

**Scaffolds that Mimic Proximal Tubule’s Physical and Biological Characteristics**

**Kyra Ramirez**. *Alabama State University*