

PRESENTATION SCHEDULES

THURSDAY, MARCH 27, 2025

GRADUATE POSTER PRESENTATIONS

ELLIOTT HALL AUDITORIUM

9:00 AM - 12:00 PM	002-AGR	DEVELOPING A CONCEPTUAL MODEL OF SEED CAREERS APP IMPACT ADDRESSING BARRIERS TO RETENTION IN FANHCS COLLEGE AND WORKFORCE DEVELOPMENT Jazmine Norwood*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): John Ricketts, John Ricketts, Thomas Broyles, Sonali Roy, Alyssa Rockers
9:00 AM - 12:00 PM	010-AGR	A GENOMIC APPROACH TO QUANTIFY UV-C SENSITIVITY OF COXIELLA BURNETII STRAINS Nirmal Thirunavookarasu Sankaranarayanan,*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ankit Patras, B.Pendyala
9:00 AM - 12:00 PM	014-AGR	AMARANTHUS BREAKFAST BEFORE DRIVING TO WORK USING SORGHUM-BASED BIOFUEL Mustapha Ql�wuni*, Gouse Shaik, Aron Felts. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ahmad Aziz, Svitlana Lymanska
9:00 AM - 12:00 PM	019-AGR	ANTAGONISTIC EFFICACY OF BACTERIAL ENDOPHYTES AGAINST SELECTED PLANT PATHOGENS Gift Obunukwu*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Margaret Mmbaga
9:00 AM - 12:00 PM	022-AGR	ASSESSING SOIL HEALTH IN CONVENTIONAL ANNUAL CROPPING SYSTEMS AND PERENNIAL FORAGE SYSTEMS IN TENNESSEE. Mukesh Chaudhary*, Pooja Chaudhari. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Krishna Bhandari, Philip Hinson
9:00 AM - 12:00 PM	023-AGR	AUTOMATED TREE CANOPY COVER MAPPING USING GOOGLE EARTH ENGINE, MACHINE LEARNING, AND HIGH-RESOLUTION IMAGERY Anish K C*, Nhuan Than. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Bharat Pokharel, Khem Poudel
9:00 AM - 12:00 PM	025-AGR	BIOCONTROL EFFICACY OF ENDOPHYTES IN MITIGATING PHYTOPHTHORA CAPSICI DISEASE PROGRESSION: A GREENHOUSE TRIAL APPROACH Gift Obunukwu*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Margaret Mmbaga
9:00 AM - 12:00 PM	028-AGR	BUILDING TOMORROW'S LEADERS: SKILLS AND COMPETENCIES DEVELOPED THROUGH THE TENNESSEE STATE UNIVERSITY NEXTGEN SCHOLARSHIP PROGRAM Brian Kibirige*, Anthony Garner, Sarah Tyler, Jazmine Norwood, Candice Haddock, Joe Thompson. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): John Ricketts, Lana Petrie, Leigh Oliver, Sudina Luitel
9:00 AM - 12:00 PM	030-AGR	CAN PERENNIAL FORAGE SYSTEMS BE MORE SUSTAINABLE AND RESILIENT COMPARED TO CONVENTIONAL ANNUAL CROPPING SYSTEMS? Mukesh Chaudhary*, Pooja Chaudhari. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Krishna Bhandari, Philip Hinson

9:00 AM - 12:00 PM	034-AGR	CHEMICAL CONTROL OF POWDERY MILDEW OF BIGLEAF HYDRANGEA Christina Jennings*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Fulya Baysal-Gurel
9:00 AM - 12:00 PM	035-AGR	CITRIC ACID/ B-ALANINE CARBON DOT MEDIATED FUNCTIONAL DNA DELIVERY IN PLANTS. Kuber Shivashakarappa*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ali Taheri
9:00 AM - 12:00 PM	038-AGR	COMPARATIVE TRANSCRIPTOMIC PROFILING OF CIRCULAR RNAS AND DIFFERENTIAL INTERFERON RESPONSES IN PORCINE ALVEOLAR MACROPHAGES Jiuyi Li*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Yongming Sang
9:00 AM - 12:00 PM	058-AGR	EFFECT OF PLANTING DENSITY AND VARIETY ON MUNG BEAN YIELD IN TENNESSEE Joshua Relyea*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Matthew Blair
9:00 AM - 12:00 PM	059-AGR	EFFECT OF ULTRAVIOLET LIGHT (UV-C) TREATMENT ON THE BIOCHEMICAL COMPOSITION AND CYTOTOXICITY OF ALMOND MILK Jestin Bose*, Nirmal Thirunavookarasu Sankaranarayanan. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ankit Patras, B.Pendyala
9:00 AM - 12:00 PM	072-AGR	ESTABLISHING PROTOPLAST-BASED GENETIC TRANSFORMATION FOR SWEET SORGHUM (SORGHUM BICOLOR) THROUGH CRYOPRESERVATION OF MICROSPORES Aron Felts*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ahmad Aziz, C. Ondzighi-Assoume
9:00 AM - 12:00 PM	075-AGR	EVALUATION OF A COMPLEX CORN X TEOSINTE POPULATION FOR ADAPTATION TO FOUR CYCLES OF TENNESSEE GROWING CONDITIONS Mst. Sumayea Khan*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Matthew Blair, Max Miller
9:00 AM - 12:00 PM	076-AGR	EVALUATION OF COVER CROP NITROGEN CALCULATOR AS AN ADAPTIVE NITROGEN MANAGEMENT DECISION SUPPORT TOOL Puja Sapkota*, Sabin Shrestha. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Resham Thapa
9:00 AM - 12:00 PM	081-AGR	EXPLORING THE COOLING EFFECT OF URBAN FORESTS AT PARKING LOTS IN SUMMER Xiaoyue Li*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Yujuan Chen, Ge Sun, De'Etra Young, Chen Wang,
9:00 AM - 12:00 PM	087-AGR	GENETIC CONFIRMATION OF JOHNSONGRASS ACCESSIONS AND THEIR WEEDICIDE RESISTANCE PER SIX GEOGRAPHICAL LOCATIONS OF TENNESSEE Gouse Shaik*, Mustapha Olawuni. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ahmad Aziz, Peter Prestwich
9:00 AM - 12:00 PM	093-AGR	HYDROGEN PEROXIDE IN DRINKING WATER IMPROVES GROWTH PERFORMANCE AND AMINO ACID DIGESTIBILITY IN BROILER CHICKENS DURING EARLY GROW-OUT PERIOD. Biswajit Kumar Biswas*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Pramir Maharjan

9:00 AM - 12:00 PM	095-AGR	IDENTIFICATION AND CHARACTERIZATION OF PEPTIDE RESPONSIVE HISTONE MODIFICATION GENES DURING ROOT NODULE SYMBIOSIS Shivani Dharam*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy
9:00 AM - 12:00 PM	097-AGR	IDENTIFICATION AND PATHOGENICITY OF BOTRYOSPHERACEAE SPECIES ASSOCIATED WITH CANKER DISEASES IN REDBUDS Pratima Subedi*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Fulya Baysal Gurel
9:00 AM - 12:00 PM	099-AGR	IDENTIFICATION OF NOVEL GENOMIC REGIONS FOR ROOT NODULATION AND ADVERSE CLIMATE RESISTANCE IN SOYBEANS. Kuber Shivashakarappa*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ali Taheri
9:00 AM - 12:00 PM	102-AGR	IMPACT OF AMYGDALIN AND LACTIC ACID ON BIOFILM FORMATION OF TYPHOIDAL AND NONTYPHOIDAL SALMONELLA SEROVARS IN ABIOTIC ENVIRONMENT Sandhya Thapa*, Niraj Ghimire, Ranju Kafle, Junice Sibley. Cooperative Extension, College of Agriculture. Advisor(s): Aliyar Cyrus Fouladkhah
9:00 AM - 12:00 PM	106-AGR	IMPACTS OF COVER CROPS ON SOIL HYDRAULIC PROPERTIES: A GLOBAL META-ANALYSIS Sabin Shrestha*, Puja Sapkota. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Resham Thapa
9:00 AM - 12:00 PM	109-AGR	INOCULATION METHODS FOR POWDERY MILDEW OF HYDRANGEA MACROPHYLLA Christina Jennings*. Otis L. Floyd Research Center, College of Agriculture. Advisor(s): Fulya Baysal-Gurel
9:00 AM - 12:00 PM	112-AGR	INVESTIGATING THE SURVIVAL AND GROWTH OF CERATOBASIDIUM SP. IN EASTERN REDBUD UNDER LONG-TERM STORAGE CONDITION Shahla Borzouei*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Fulya Baysal-Gurel
9:00 AM - 12:00 PM	116-AGR	KNOW THE CHANNEL TO SELL YOUR PRODUCE: EXAMINING THE DIRECT, INTERMEDIATE & INSTITUTIONAL MARKETING CHANNELS USED BY SPECIALTY CROP GROWERS IN TENNESSEE Samjhauta Thapa*, Binod Bhusal. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Aditya Khanal
9:00 AM - 12:00 PM	119-AGR	MACHINE LEARNING-DRIVEN ESTIMATION OF WINTER RYE BIOMASS S. KUKAL, R. THAPA Sunaab Kukal*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Resham Thapa
9:00 AM - 12:00 PM	120-AGR	MAIZE CROP HEIGHT ESTIMATION USING UAS IMAGES Sabin Sigdel*, Puja Sapkota, Sabin Shrestha. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Anjin Chang, Resham Thapa
9:00 AM - 12:00 PM	121-AGR	MECHANISMS OF SOIL RESPIRATION UNDER WARMING AND NITROGEN ENRICHMENT Aviyan Pandey*, Matthew Manu. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Jianwei Li
9:00 AM - 12:00 PM	133-AGR	NUTRITIONAL ASSISTANCE, HEALTH STATUS, AND THE ROLE OF SUPPLY CHAIN ACTORS IN TENNESSEE. Mary Nyambura*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): James Muriuki

9:00 AM - 12:00 PM	134-AGR	ON-FARM EVALUATION OF SOIL HEALTH IN DIFFERENT AGRICULTURAL PRODUCTION SYSTEMS IN TENNESSEE Pooja Chaudhari*, Mukesh Chaudhary. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Krishna Bhandari
9:00 AM - 12:00 PM	143-AGR	PERFORMANCE IMPACTS OF DIETARY ENERGY IN A LAYING HEN STRAIN AT LATE PHASE OF PRODUCTION Faija Pory*, Biswajit Kumar Biswas, Naudia Clark. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Pramir Maharjan
9:00 AM - 12:00 PM	144-AGR	PERFORMANCE STUDY FOR WINTER COVER CROP SPECIES AND VARIETIES IN TENNESSEE Laxmi Joshi*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Matthew Blair
9:00 AM - 12:00 PM	145-AGR	PHYSIOLOGICAL RESPONSES OF AMARANTH GENOTYPES SUBJECTED TO HEAT AND DROUGHT STRESS ON A DITECH AUTOMATED PHENOTYPING SYSTEM Ethan Denson*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Matthew Blair
9:00 AM - 12:00 PM	148-AGR	PREDICTING ABOVEGROUND BIOMASS USING REMOTE SENSING IMAGERY IN THE LAND BETWEEN THE LAKES (LBL) NATIONAL RECREATION AREA FOREST Nirmal Thapa*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Bharat Pokharel
9:00 AM - 12:00 PM	150-AGR	PRINCIPAL COMPONENT ANALYSIS OF HEAT AND DROUGHT STRESS COMPARING TWO CULTIVATED GRAIN AMARANTH VARIETIES TO NATIVE PIGWEED AMARANTH. Ethan Denson*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Matthew Blair
9:00 AM - 12:00 PM	152-AGR	PROLIFERATION OF LIFE IN LIFELESS CREVICES Matthew Manu*, Aviyan Pandey. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Jianwei Li
9:00 AM - 12:00 PM	157-AGR	RETENTION MECHANISM OF METFORMIN ON TENNESSEE SOIL: INVESTIGATING THE INFLUENCE OF SOIL PROPERTIES. Maheen Mehnaz*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sudipta Rakshit
9:00 AM - 12:00 PM	164-AGR	SOCIAL CAPITAL AND NON-FAMILIAL ADULT VOLUNTEERS: CONNECTIONS WITH YOUTH AND COMMUNITY Solomon Garner*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): John Ricketts, Shannon G. Washburn, Jera Niewoehner-Green, Julie M. Fox,
9:00 AM - 12:00 PM	165-AGR	SOMETHING'S IN THE WATER: THE HEALTH IMPLICATIONS OF AGING WASTEWATER INFRASTRUCTURES IN ENVIRONMENTAL JUSTICE COMMUNITIES Maia Payne*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Reginald Archer
9:00 AM - 12:00 PM	166-AGR	SPATIALLY RESOLVED PROTEOME PROFILING REVEALS NOVEL DROUGHT-RESPONSIVE PROTEINS IN ROOT TIPS OF SWITCHGRASS PLANTS Jun Guo*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Suping Zhou

9:00 AM - 12:00 PM	167-AGR	STUDIES OF STIGMA RECEPTIVITY OF TOMATOES DURING TOMATO FLOWER DEVELOPMENTAL PROCESS AND UNDER HEAT STRESS CONDITIONS Jing zou*, Sudhakar Madhavarapu, Jun Guo. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Suping Zhou
9:00 AM - 12:00 PM	169-AGR	SUPPORTING LOCAL NURSERIES AND GARDEN CENTERS IN MITIGATING THE IMPACT OF THE COVID-19 PANDEMIC Sudhakar Madhavarapu*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Suping Zhou
9:00 AM - 12:00 PM	170-AGR	SYNERGISTIC IMPACT OF BIOACTIVE COMPOUNDS AND PRESSURE-BASED PASTEURIZATION AGAINST WILD-TYPE, RIFAMPICIN-RESISTANT, AND PRESSURE-STRESSED O157 AND NON-O157 SHIGA TOXIN-PRODUCING ESCHERICHIA COLI Niraj Ghimire*, Ranju Kafle, Junice Sibley. Cooperative Extension, College of Agriculture. Advisor(s): Aliyar Cyrus Fouladkhah
9:00 AM - 12:00 PM	171-AGR	SYNTHESIS OF AN ARTIFICIAL DIET FOR NATURAL ENEMY, GREEN LACEWING CHRYSOPA OCLATA Manju Yogi*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Kaushalya G Amarasekare, Binita Sigdel
9:00 AM - 12:00 PM	175-AGR	THE EFFECT OF MOUNTAIN LAUREL SOIL ON EMERGENCE AND SURVIVAL OF TWO HARDWOOD SPECIES Maria Schutte*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sarah Neumann
9:00 AM - 12:00 PM	203-AGR	UNDERSTANDING GREEN CONSUMPTION BEHAVIOR: A CASE STUDY OF ORGANIC FOOD BUYERS IN TENNESSEE Stinson Parks*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Doc Tran
9:00 AM - 12:00 PM	205-AGR	UNVEILING EPIGENETIC REGULATION IN THE NITROGEN-FIXING SYMBIOSIS OF MEDICAGO TRUNCATULA Hyndavi Yammanuru*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy
9:00 AM - 12:00 PM	006-BUS	THE CASE FOR INCREASED HEALTH PRIVACY IN DIGITAL U.S. MARKETS Jessica Durai*, Emanuel Frazier. Business Information Systems, College of Business. Advisor(s): Aurore Kamssu
9:00 AM - 12:00 PM	136-BUS	OPTIMIZING HEALTHCARE SUPPLY CHAIN MANAGEMENT: ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN AIDS IN COST REDUCTION RaShanda Littles*. Business Information Systems, College of Business. Advisor(s): Santosh Venkatraman
9:00 AM - 12:00 PM	158-BUS	REVOLUTIONIZING REVERSE LOGISTICS: A BLUEPRINT FOR SUSTAINABLE MATERIAL RECOVERY AND CIRCULAR ECONOMY INTEGRATION. Oluwabukola Daramola*. Business Information Systems, College of Business. Advisor(s): Aurore Kamssu
9:00 AM - 12:00 PM	008-EDU	A CONTENT ANALYSIS OF HUMAN TRAFFICKING RESEARCH ADDRESSING MENTAL HEALTH Leah Kepley*. Psychology, College of Education. Advisor(s): Lindsay Mills, Brooke Rappaport brappapo@tnstate.edu
9:00 AM - 12:00 PM	082-EDU	EXPLORING THE IMPACT OF INTERGENERATIONAL TRANSMISSION OF STRESS ON BLACK U.S. IMMIGRANTS

Nancy Adane*. Psychology, College of Education. Advisor(s): Marie Hammond

9:00 AM - 12:00 PM	131-EDU	NAVIGATING SUCCESS: THE IMPACT OF FAMILY AND COMMUNITY EXPECTATIONS ON THE MENTAL HEALTH AND WELL – BEING OF BLACK WOMEN COLLEGE STUDENTS AT HBCUS Kiara Tookes-Williams*. Psychology, College of Education. Advisor(s): Marie Hammond
9:00 AM - 12:00 PM	009-ENGR	A GENERALIZED ALGORITHM FOR THE TOPOLOGICAL DESIGN OF MULTISTABLE TENSEGRITY STRUCTURES tarisha moncrief*, Mohammad Hodaei*, eyob kebede, Enock Bunane*, Kehinde Omotayo. Civil and Architectural Engineering, College of Engineering. Advisor(s): Ranganathan Parthasarathy, Anil Misra, Nikhil Admal, Richard Mu, Andre Schleife
9:00 AM - 12:00 PM	032-ENGR	CENTRALIZED CONTROLLER FOR PHOTOVOLTAIC MPPT, BIDIRECTIONAL CHARGING, AND DYNAMIC LOAD CONTROL USING DEEP REINFORCEMENT LEARNING Richard Wienczek*. Electrical and Computer Engineering, College of Engineering. Advisor(s): Sagnika Ghosh
9:00 AM - 12:00 PM	037-ENGR	COMPARATIVE ANALYSIS OF GAN-BASED ANOMALY DETECTION TECHNIQUES FOR 5G NETWORKS Henry Onyeka*. Electrical and Computer Engineering, College of Engineering. Advisor(s): Kamrul Hasan
9:00 AM - 12:00 PM	041-ENGR	CONTROL-ORIENTED MODELING TO INVESTIGATING NONLINEAR BEHAVIOR OF COOLING COIL SYSTEM Mercy Sammy*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Zufen Wang
9:00 AM - 12:00 PM	052-ENGR	DEVELOPMENT OF ION-EXCHANGE FIBER-REINFORCED CONCRETE BATTERIES FOR ENERGY STORAGE APPLICATIONS Yinghao Liu*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Shihui Liu
9:00 AM - 12:00 PM	053-ENGR	DEVELOPMENT OF RECHARGEABLE CEMENT-BASED BATTERIES WITH HEMP FIBERS Ziyu Liu*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Shihui Liu, Catherine K. Armwood-Gordon, Lin LI
9:00 AM - 12:00 PM	056-ENGR	DURABILITY TEST OF RECYCLED CONSTRUCTION DEMOLISHED WASTE MATERIALS. Bahati Chimba*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Shihui Liu
9:00 AM - 12:00 PM	074-ENGR	EVALUATING THE USE OF C&D WASTE FINES AS SOIL AMENDMENTS FOR PH IMPROVEMENT AND AIRSPACE REDUCTION IN LANDFILLS Fatemeh Ghiasvand*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Andrea Gardiner
9:00 AM - 12:00 PM	090-ENGR	HIGHLY STRETCHABLE AND TOUGH PANTOGRAPH-INSPIRED LATTICE METAMATERIALS Kehinde Omotayo*, Mohammad Hodaei*, Fatemeh Ghiasvand, Joshua Jones*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Ranganathan Parthasarathy, Anil Misra
9:00 AM - 12:00 PM	108-ENGR	INNOVATIVE RECHARGEABLE CEMENT-BASED SOLID-STATE BATTERIES FOR SELF-POWERED INTELLIGENT TRANSPORTATION INFRASTRUCTURE Dandan Yin*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Shihui Liu

9:00 AM - 12:00 PM	113-ENGR	Investigation of Photodegradation of Imidacloprid in Surface Water Environment under 312 nm UVB in 4, 7 and 9 pH Doris Noah*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Lin Li, Roja Painter
9:00 AM - 12:00 PM	117-ENGR	LARGE LANGUAGE MODELS (LLMs) FOR LEARNING SPREADSHEET TABULAR DATA Ibna Kowsar*, Shourav Bin Rabbani. Computer Science, College of Engineering. Advisor(s): Manar Samad
9:00 AM - 12:00 PM	122-ENGR	MECHANOCHEMICAL DESTRUCTION OF PFAS AND OTHER PERSISTENT HALOGENATED ORGANIC POLLUTANTS: A CRITICAL REVIEW Carolyne Mbogo*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Junke Zhang, Lin Li
9:00 AM - 12:00 PM	129-ENGR	MODELLING THE TRANSPORT OF EMERGING PFAS IN THE SOIL AND GROUND WATER Vailet Magidanga*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Lin Li, Junke Zhang
9:00 AM - 12:00 PM	137-ENGR	OPTIMIZING NASHVILLE LAST MILE DELIVERY: AI-DRIVEN ROUTING FOR MODERN LOGISTICS Afia Yeboah*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Deo Chimba
9:00 AM - 12:00 PM	151-ENGR	PRIVACY-FOCUSED LIDAR FOR URBAN ROAD SAFETY Md Atiqur Rahman Mallick*. Electrical and Computer Engineering, College of Engineering. Advisor(s): Kamrul Hasan
9:00 AM - 12:00 PM	161-ENGR	SAFETY AND ECONOMIC EVALUATION OF MEDIAN CABLE BARRIERS Innocent Macha*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Deo Chimba
9:00 AM - 12:00 PM	168-ENGR	STUDY ON THE COMPRESSIVE STRENGTH OF SEAWEED-CONSOLIDATED SAND Yanhai Liu*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Shihui Liu
9:00 AM - 12:00 PM	199-ENGR	TRAFFIC VOLUME PREDICTION OF UNMEASURED LOCATIONS USING ML METHODS Subash Gupta*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Deo Chimba
9:00 AM - 12:00 PM	204-ENGR	UNIFYING MECHANO-SORPTIVE CREEP AND ENVIRONMENTAL STRESS CRACKING UNDER THE UMBRELLA OF MECHANO-SORPTIVE PHENOMENA Yue Yan*, Kehinde Omotayo, Mohammad Hodaei*, Fatemeh Ghiasvand, Justin Curry. Civil and Architectural Engineering, College of Engineering. Advisor(s): Ranganathan Parthasarathy, Anil Misra, Paulette Spencer
9:00 AM - 12:00 PM	016-HS	AN OCCUPATIONAL THERAPIST'S ROLE IN FACILITATING SUSTAINED PARTICIPATION IN ADAPTIVE SPORTS FOR CHILDREN & ADOLESCENCE WITH DISABILITIES Isabella Stallard*, Morgan Miller*, Jenni Schwartz*, Lily Painter*, Felicia Blackwell*. Occupational Therapy, College of Health Sciences. Advisor(s): Laura Carpenter
9:00 AM - 12:00 PM	017-HS	AN OCCUPATIONAL THERAPY APPROACH TO ADDRESSING THE NEEDS OF POSTPARTUM WOMEN: A SYSTEMATIC REVIEW

Alyssa Campbell*, Cierra Cross*, Mikayla Friga*, Breonna Glover*, Teona Tomlison*. Occupational Therapy, College of Health Sciences. Advisor(s): Lauren Beard, Laura Carpenter

9:00 AM - 12:00 PM	024-HS	BEYOND YOUR TYPE-TOKEN RATIO: RETHINKING HOW WE MEASURE VOCABULARY GROWTH IN CHILDREN Madeline McCulley*. Speech Pathology and Audiology, College of Health Sciences. Advisor(s): Danielle Watson
9:00 AM - 12:00 PM	065-HS	EFFECTS OF THE MENSTRUAL CYCLE PHASES ON ANTERIOR CRUCIATE LIGAMENT TEAR INCIDENCE IN FEMALE ATHLETES: A SYSTEMATIC REVIEW Sarah Kelsey Berry*, Abby Chumley*, Elizabeth Reilly Green*. Physical Therapy, College of Health Sciences. Advisor(s): Deborah Edmondson
9:00 AM - 12:00 PM	070-HS	ENHANCING PHYSICAL THERAPY OUTCOMES WITH EXTENDED REALITY: EXPLORING THE IMPACT OF EXTENDED REALITY INTEGRATION ON NEUROLOGICAL PATIENT REHABILITATION AND FUNCTIONAL IMPROVEMENT Vincent Chan*, David Dahlgren*, Kaycee Armstrong*, Jacob Standefer*. Physical Therapy, College of Health Sciences. Advisor(s): Kwaku Kankam
9:00 AM - 12:00 PM	085-HS	FORCE CLOSURE, FORM CLOSURE, AND MUSCLE RECRUITMENT AS KEY FACTORS DRIVING TREATMENT OF SACROILIAC JOINT DYSFUNCTION Ava Ploeckelman*, Mariem Azer*, Mark Mahan*, Lexie Rothchild*. Physical Therapy, College of Health Sciences. Advisor(s): Patricia King
9:00 AM - 12:00 PM	103-HS	IMPACT OF NATURE-BASED OCCUPATIONAL THERAPY ON THE MENTAL HEALTH OF ADULTS WITH CHRONIC PAIN: A SYSTEMATIC REVIEW Hannah Dowlen*, Elise Hilpert*, Brandon Oliver*, Madison Smith*, Kayla Wagner*. Occupational Therapy, College of Health Sciences. Advisor(s): Laura Carpenter
9:00 AM - 12:00 PM	141-HS	PELVIC HEALTH CARE IN TENNESSEE: A SURVEY ANALYSIS OF PHYSICAL THERAPY PROVIDER PREPAREDNESS Kariya Jennings*, Princesse Hawkins*. Physical Therapy, College of Health Sciences. Advisor(s): Marsha Bowman
9:00 AM - 12:00 PM	178-HS	THE EFFECTIVENESS OF PHYSICAL THERAPY IN POST-CESAREAN RECOVERY: ADDRESSING FUNCTIONAL LIMITATIONS AND LOW BACK PAIN Erin Cannon*, Princesse Hawkins, Destiny Tusie*, Darshan Patel*, Carson Head*. Physical Therapy, College of Health Sciences. Advisor(s): Marsha Bowman
9:00 AM - 12:00 PM	182-HS	THE EFFICACY OF COLD WATER IMMERSION ON PHYSIOLOGICAL BIOMARKERS IN POST-EXERCISE RECOVERY: A SYSTEMATIC REVIEW Romany Nagy*, Austin Kidd*, Thomas Kaplan*, Ethan Ferguson*. Physical Therapy, College of Health Sciences. Advisor(s): Derek Charles
9:00 AM - 12:00 PM	183-HS	THE EFFICACY OF HIGH-INTENSITY LOCOMOTOR TRAINING IN INCOMPLETE SPINAL CORD INJURIES: A SYSTEMATIC REVIEW Kaycie Saxton*, Ceanna Benner*, Sarah Walker*, Elaina McGill*. Physical Therapy, College of Health Sciences. Advisor(s): David Lehman
9:00 AM - 12:00 PM	186-HS	THE IMPACT OF NATURE BASED INTERVENTIONS ON THE MENTAL HEALTH OF VETERANS: A SYSTEMATIC REVIEW Brittany Davis*, Aaliyah Haley*, Danielle Jones*, Ryan Lemp*, Rachel Shanks*. Occupational Therapy, College of Health Sciences. Advisor(s): Laura Carpenter

9:00 AM - 12:00 PM	194-HS	A SYSTEMATIC REVIEW OF THE ROLE OF OCCUPATIONAL THERAPY IN POSTPARTUM CARE AND MATERNAL MENTAL HEALTH Caroline Ellis*, Hanna Skiston*, Teia Edwards*, Mariah Lavender*, Kayla Thomas*. Occupational Therapy, College of Health Sciences. Advisor(s): Lauren Beard, Laura Carpenter
9:00 AM - 12:00 PM	015-LIPS	AN INVESTIGATION ON EMBRYONIC DEVELOPMENT DIAPAUSE Nevein Soliman*, Sammatha Stiff, Rhia Nelson. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Xiaofei Wang
9:00 AM - 12:00 PM	127-LIPS	MICROWAVE IRRADIATED CROSS-COUPPLING OF CARBOXYLIC ACIDS AND N, N DIMETHYL ETHANOL BY USING A PALLADIUM CATALYST TO MAKE AMINO ESTER. Md Shahin Reza*, Milton Kumar Kund. Chemistry, College of Life and Physical Sciences. Advisor(s): Mohammad Al-Masum
9:00 AM - 12:00 PM	064-LIPS	EFFECTS OF STRAW RETURN ON SOIL ORGANIC CARBON AND GREENHOUSE GAS EMISSIONS: A COMPREHENSIVE MEGA-ANALYSIS Maazeera Fatima*, Faisal Hayat. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Dafeng Hui
9:00 AM - 12:00 PM	198-LIPS	TOLL-LIKE RECEPTORS IN THE MECHANISM OF HEXABROMOCYCLODODECANE-INDUCED PRODUCTION OF PRO-INFLAMMATORY CYTOKINE TNF-α Wenjun Zhu*, April Falconer-Turner. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret Whalen
9:00 AM - 12:00 PM	013-PUB	ABSTRACT ON EPICC CORE RESEARCH TEAM MEETING EFFECTIVENESS EVALUATION Abdul Rahman Sankoh*. Public Health, Healthcare Administration and Health Sciences, College of Public Service. Advisor(s): Jemal Gishe, Rebecca Selove
9:00 AM - 12:00 PM	190-PUB	THE PSYCHOLOGICAL STRAIN OF BIAS: EXPLORING THE MENTAL HEALTH IMPACT OF HAIR DISCRIMINATION Marian Evans*. Social Work and Urban Studies, College of Public Service. Advisor(s): ZaDonna Slay

**Denotes Presenters*

THURSDAY, MARCH 27, 2025

UNDERGRADUATE POSTER PRESENTATIONS

ELLIOTT HALL AUDITORIUM

1:00 PM - 4:00 PM	003-AGR	EVALUATING BEHAVIORAL SAMPLING METHODS IN CATTLE RESEARCH Shelby Burruss*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Kimberly Reuscher, Miranda Stotz
1:00 PM - 4:00 PM	018-AGR	ANALYSIS OF PRODUCTIVITY VARIATIONS IN RICE IN ASIAN COUNTRIES Kevin Scott*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Prabodh Illukpitiya
1:00 PM - 4:00 PM	029-AGR	CAN DEAN FLOW UV-C SYSTEMS IMPROVE RETENTION OF ASCORBIC ACID IN IMMUNITY SHOTS? Lauryn Jones*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ankit Patras, B. Pendyala

1:00 PM - 4:00 PM	033-AGR	CHARACTERIZATION OF THE EXPRESSION PATTERNS OF TWO RECEPTOR LIKE KINASES IN MEDICAGO TRUNCATULA DURING ROOT NODULE SYMBIOSIS Miracle Walker*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy, Rajni Parmar
1:00 PM - 4:00 PM	046-AGR	CRISPR-Cas9 MEDIATED TARGETED MUTAGENESIS TO ASSESS THE FUNCTION OF MTBAK1 AND EXPRESSION IN THE ROOTS AND NODULES OF MEDICAGO TRUNCATULA. Shania Dean-Motley*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy, Rajni Parmar
1:00 PM - 4:00 PM	048-AGR	DETECTION OF PROBIOTICS IN BROILER CHICKENS MICROBIOTA GUT SAMPLES Trinity Brown*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Thyneice Taylor-Bowden, Samuel Nahashon
1:00 PM - 4:00 PM	050-AGR	DEVELOPING SYNBIOTIC POWDERS USING WATER SOLUBLE YELLOW MUSTARD MUCILAGE BY FREEZE-DRYING Emma Douglas*, CheKenna Fletcher, Subir Das. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ying Wu
1:00 PM - 4:00 PM	051-AGR	DEVELOPMENT OF A REVERSE-GENETIC PLATFORM FOR ADAPTING FIELD ISOLATES OF PORCINE ARTERIVIRUS AS VACCINE BACKBONES TO ENHANCE EFFICACY AND SAFETY Gabrielle Oliver*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Yongming Sang
1:00 PM - 4:00 PM	054-AGR	DEVELOPMENTAL STAGES AND THEIR IMPACT ON MICROSPORE FRACTIONATION IN SWEET SORGHUM Zion Hogan. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ahmad Aziz
1:00 PM - 4:00 PM	057-AGR	EFFECT OF BUCK EXPOSURE ON THE ESTROUS CYCLE OF MULTI-BREED MEAT GOATS Tessa Adamopoulos*, Lauren Pearson*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Emily Hayes, Richard Browning
1:00 PM - 4:00 PM	069-AGR	ENHANCING IRRIGATION MANAGEMENT IN TENNESSEE THROUGH HIGH-RESOLUTION WEATHER DATA COLLECTION Izabella Douglas*, Abhisek Gupta*, Bikalpa Lamichhane*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Behnaz Molaei
1:00 PM - 4:00 PM	083-AGR	FOOD SECURITY RESILIENCE AMONG TENNESSEE HOUSEHOLDS POST COVID-19: EXPLORING ABSORPTIVE, ADAPTIVE, AND TRANSFORMATIVE CAPACITIES Myles Bolton*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Doc Lap Tran, Kimberly Pettigrew, Erin Rose, Michael Marincic, Jasmine Bryant
1:00 PM - 4:00 PM	084-AGR	FOOD WASTE AT TENNESSEE STATE UNIVERSITIES MAIN CAFÉ DeWayne Rosse, Jr*. Family and Consumer Sciences, College of Agriculture. Advisor(s): Sharon Suggs
1:00 PM - 4:00 PM	092-AGR	HOW PERSONAL STYLE IMPACTS STUDENTS' LIVES Carianna Hunter*. Family and Consumer Sciences, College of Agriculture. Advisor(s): Veronica Oates, Sharon Suggs
1:00 PM - 4:00 PM	098-AGR	IDENTIFICATION OF DEVELOPMENTAL STAGES IN SWEET SORGHUM MICROSPORES AND THEIR FRACTIONALIZATION Zion Hogan*, Chandana Kurapati. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ahmad Aziz

1:00 PM - 4:00 PM	105-AGR	IMPACT OF YEARLING FITNESS TRAITS ON FERTILITY RATES IN MULTI-BREED MEAT GOATS Niarra Anthony, Kayley Garnett*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Emily Hayes, Richard Browning
1:00 PM - 4:00 PM	125-AGR	MICRO-GREENS Belevia Stovall*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Arvazena Clardy
1:00 PM - 4:00 PM	146-AGR	PLANTING SEEDS FOR SUCCESS: AN AGRICULTURAL EDUCATION CURRICULUM FOR MIDDLE AND HIGH SCHOOL STUDENTS Gianna Pearson*. Cooperative Extension, College of Agriculture. Advisor(s): Thomas Broyles, Brian Kibirige
1:00 PM - 4:00 PM	153-AGR	RECYCLING URBAN STORMWATER WITH TREES Sydney Wyche*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Yujuan Chen, Eric Kuehler
1:00 PM - 4:00 PM	155-AGR	REPRODUCTIVE PERFORMANCE OF STRAIGHTBRED DEXTER AND MASHONA X DEXTER F1 HEIFERS Janani Oates*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Richard Browning, Emily G. Hayes
1:00 PM - 4:00 PM	184-AGR	THE FIRST REPORT ON THE UV-C SENSITIVITY HUMAN METAPNEUMOVIRUS (HMPV) USING OMICS APPROACH. Kyla Hughes*, Nirmal Thirunavookarasu Sankaranarayanan. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Ankit Patras, B. Pendyala
1:00 PM - 4:00 PM	187-AGR	THE IMPACT OF PARENTAL INVOLVEMENT ON EARLY CHILDHOOD EDUCATION OUTCOMES Daryana Thompson*. Family and Consumer Sciences, College of Agriculture. Advisor(s): Veronica Oates, Sharon Suggs
1:00 PM - 4:00 PM	188-AGR	THE INFLUENCE OF FAINTING GOAT SIRES ON MEAT GOAT PERFORMANCE Janea Hubbard*, Jayden Cole. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Emily Hayes, Richard Browning
1:00 PM - 4:00 PM	189-AGR	THE POTENTIAL OF TRANSFORMING VACANT/UNDERUTILIZED LANDS INTO URBAN GREEN SPACE IN NASHVILLE, TENNESSEE BASED ON A TARGETED SPATIAL ANALYSIS Todd Stansberry*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Yujuan Chen, De'Etra Young
1:00 PM - 4:00 PM	202-AGR	UNCOVERING GENE EXPRESSION PATTERNS OF A LEUCINE-RICH REPEAT RECEPTOR KINASE DURING ROOT NODULE SYMBIOSIS Janae Terrell*. Agricultural and Environmental Sciences, College of Agriculture. Advisor(s): Sonali Roy, Rajni Parmar
1:00 PM - 4:00 PM	089-EDU	HELP-SEEKING VARIATION AMONG BLACK COLLEGE STUDENTS: A LITERATURE REVIEW. Madissen Mebane*. Psychology, College of Education. Advisor(s): Brooke Rappaport
1:00 PM - 4:00 PM	100-EDU	IMPACT OF ACES AND TRAUMA ON THE TENDENCY TO FORGIVE Arianna Longs*. Psychology, College of Education. Advisor(s): Esther Lynch
1:00 PM - 4:00 PM	126-ENGR	MICROSIMULATION OF SIGNAL OPERATIONS NEAR RAILROAD CROSSINGS Morgan Gill*. Civil and Architectural Engineering, College of Engineering. Advisor(s): Deo Chimba
1:00 PM -	149-ENGR	PREDICTIVE ANALYSIS OF POLYMERS

4:00 PM		Shelton Hawkins*. Mechanical and Manufacturing Engineering, College of Engineering. Advisor(s): Mohammad Habibi, Landon Onyebueke
1:00 PM - 4:00 PM	162-HS	SEX DIFFERENCES IN FORCE VARIABLES: COMPARING MEN AND WOMEN COLLEGIATE ATHLETES Sydney Ramsey*. Human Performance and Sport Sciences, College of Health Sciences. Advisor(s): Sarah Martinez-Sepanski, Poliala Dickson
1:00 PM - 4:00 PM	020-LIPS	ANTIMICROBIAL, TRICLOSAN (TCS) INCREASES TRIHALOMETHANES IN TENNESSEE DRINKING WATER IN RESPONSE TO COVID-19 Brooklyn Boone*, Gregory Smith*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Wendy Wilburn, Elaine Martin, Sujata Guha, Ryan Beni
1:00 PM - 4:00 PM	066-LIPS	EFFECTS OF TRIPHENYL METHANOL DERIVATIVES ON AMPK IN PC3 CELLS Jamari Jemison*, Louvain Klufio*, Tayala Hizer*, La Jennifer*. Chemistry, College of Life and Physical Sciences. Advisor(s): William Boadi, Ryan Beni
1:00 PM - 4:00 PM	101-LIPS	IMPACT OF AMINO ACIDS ON UV ABSORBANCE AND OTHER PROPERTIES OF MELANIN Tylor Miller*. Chemistry, College of Life and Physical Sciences. Advisor(s): Koen Verercrusse
1:00 PM - 4:00 PM	104-LIPS	IMPACT OF TRICLOSAN ON WATER QUALITY AND PUBLIC HEALTH IN ALABAMA AND GEORGIA Tnayah Dubose*, Kamryn Lassiter*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Wendy Wilburn, Elaine Martin, Sujata Guha, Ryan Beni
1:00 PM - 4:00 PM	107-LIPS	INCORPORATING UNNATURAL AMINO ACID PBPA INTO NXF1 TO PROBE PROTEIN INTERACTIONS Jalen L. Smith*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Kimberly Cooney, Yi Ren, Joshua Ohair
1:00 PM - 4:00 PM	110-LIPS	INTERACTIONS BETWEEN CELL PENETRATING PEPTIDE (CPP) PEP-1 AND BREAST CANCER CELL MEMBRANE Chandler Dollar*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Bashiyar Almarwani, Elaine Martin, Nsoki Phambu
1:00 PM - 4:00 PM	123-LIPS	METABOLICALLY ACTIVATED MACROPHAGES AND THEIR ROLE IN RADIATION-INDUCED BREAST CANCER RECURRENCE Tatiana Eason*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Marjan Rafat, Kevin Corn
1:00 PM - 4:00 PM	130-LIPS	MYD88 IN TRIBUTYLTIN-INDUCED PRODUCTION OF INTERLEUKIN (IL)-1β, IL-6, AND TNFα IN HUMAN IMMUNE CELLS Sophia Fisher*, Meaghan Lewis. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret Whalen
1:00 PM - 4:00 PM	140-LIPS	PALLADIUM-CATALYZED CROSS-COUPLED OF AROYL & ACYL CHLORIDES FOR THE SYNTHESIS OF MIXED 1,2 DIKETONES Kimora Uta'i*. Chemistry, College of Life and Physical Sciences. Advisor(s): Mohammad Al-Masum
1:00 PM - 4:00 PM	142-LIPS	PENTACHLOROPHENOL-INDUCED STIMULATION OF IL-6 PRODUCTION BY HUMAN IMMUNE CELLS RELIES ON MyD88 Brian Townsend*, Ellie Bray, Sophia Fisher, Meaghan Lewis. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret Whalen
1:00 PM - 4:00 PM	156-LIPS	RESEARCH ON WATER QUALITY EXPOSES INCREASED LEVELS OF TRIHALOMETHANES DUE TO EXCESSIVE USE OF TRICLOSAN IN RESPONSE TO COVID-19

Janaza Jones*, T. Janay Smith*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Wendy Wilburn, Elaine Martin, Sujata Guha, Ryan Beni

1:00 PM - 172-LIPS **SYNTHESIS OF POROUS MATERIAL AND SEPARATION OF RARE EARTH METALS**

Janasica Joyner*. Chemistry, College of Life and Physical Sciences. Advisor(s): Tasneem Siddiquee

1:00 PM - 180-LIPS **THE EFFECTS OF HEXABROMOCYCLODODECANE (HBCD) ON TOLL-LIKE RECEPTORS (TLRs) EXPRESSION IN HUMAN IMMUNE CELLS**

Mikayla Duke*, Saleban Gabure. Biological Sciences, College of Life and Physical Sciences. Advisor(s): April Falconer, Margaret Whalen

1:00 PM - 181-LIPS **THE EFFECTS OF HEXABROMOCYCLODODECANE (HBCD) ON TOLL-LIKE RECEPTORS (TLRs) mRNA EXPRESSION IN HUMAN IMMUNE CELLS**

Saleban Gabure*, April Falconer-Turner, Mikayla Duke. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret Whalen

1:00 PM - 192-LIPS **THE ROLE OF M γ D88 IN PENTACHLOROPHENOL STIMULATION OF INTERLEUKIN-1 β PRODUCTION BY HUMAN IMMUNE CELLS**

Ellie Bray*, Brian Townsend, Sophia Fisher, Meaghan Lewis. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret Whalen

1:00 PM - 195-LIPS **THE ROLE OF TOLL-LIKE RECEPTOR 3 AND 4 IN HEXABROMOCYCLODODECANE STIMULATION OF INTERLEUKIN-6 PRODUCTION IN HUMAN IMMUNE CELLS**

Zinia Hunter*, Wenjun Zhu. Chemistry, College of Life and Physical Sciences. Advisor(s): Margaret Whalen

1:00 PM - 207-LIPS **Wnt SIGNALING INHIBITION PROMOTES WOUND HEALING AND INHIBITS FIBROSIS IN CHRONIC WOUNDS**

Brooklyn Evans*. Biological Sciences, College of Life and Physical Sciences. Advisor(s): Sarika Saraswati, Kimberly Cooney

**Denotes Presenters*