

THURSDAY

FRIDAY

		BALLROOM A	BALLROOM B	BALLROOM C	101	106-107	108		
ORAL PRESENTATION SESSIONS / SYMPOSIA / WORKSHOPS	MORNING POSTER SESSION (Odd #s)	8:00 - 9:15							
	Lightning Talks (9595, 10148, 10180, 9776, 9710)	9:20 - 9:45							
	BREAK	9:45 - 10:00							
		10:00 - 10:15	<b>GENETICS AND CELL &amp; MOLECULAR BIOLOGY A</b> In Silico Screening of Stilbene Compounds to Identify Selective Binding to Estrogen Receptors ESRR1 and ESRR2	<b>PLANT FLORISTICS</b> A History, Summary, and Description of the Vascular Flora of Tennessee	<b>ANIMALS: BEHAVIOR A</b> Antennal and performance traits associated with light outcome in male field crickets	<b>ECOLOGY: CONSERVATION A</b> Exploring the Impact of Nontraditional Science Education	<b>ECOLOGY: AQUATIC A</b> Benthopelagic divergence in Percidae impacts trait, usage and ecological diversification: a case of ecological filtering or exaptation	<b>ECOLOGY: ECOSYSTEMS &amp; LANDSCAPES</b> Light and VPD Response Curves for <i>Mitrosiphon vimineum</i> Growing Beneath a Closed Pine Canopy: Implications for Its Persistence in Shady Forest Understorey	
		10:15 - 10:30	Effects of stilbene compounds on a triple-negative breast cancer 3D cell culture model	Modeling Native/Exotic Substrate Conservation Status Ranks for Tennessee Vascular Plants	Chemical Mate Choice Copying in <i>D. melanogaster</i>	"Exploring the Miniature Marvels of the Forest and Fields" Transforming Approaches to Study Myxomycete Diversity and Collection Preservation.	Isolating confounding abiotic and biotic effects on the phenotype of <i>Physa acuta</i> snails	Missing the Mammals for the Trees: Comparative biogeography of the sky island mammals of the southern Appalachians	
		10:30 - 10:45	Effects of Lipid Raft Depletion on LL-37 Uptake in Human Monocytes	Assigning coefficients of conservation to the vascular flora of Tennessee and Kentucky.	Experimental adjustments to hatching asynchrony between brood parasites and their hosts reveal patterns of parental feeding effort and nestling survival.	Multi-Dimensional Assessment of Species Composition and Vegetative Health Via Aerial Imagery and Machine Learning Modeling	Crayfish genetic diversity, distribution, and endosymbionts across the Eastern Continental Divide	Using Terrestrial Laser Scanning to Evaluate the Impacts of Forestry Management Practices on the Understorey Complexity of a Longleaf Pine Savanna in Southern Mississippi	
		10:45 - 11:00	PAR-1 Activation Interacts with Normal Axon Development in C. elegans through the PKC and ROKK Pathways	Hidden in plain sight, a new species of <i>Phacelia</i> for the Southern Appalachians	Regurgitation Unravels: Plant Microstructures and Hairball Formation in Cats	Zoning, not vegetative productivity, best predicts insect biomass in an urban complex	A Microplastics Protocol that Minimizes Contamination and is Optimized for Fish Tissues	Ghosts in Glass: Ghost Crabs as Judges of Glass Sand for Coastal Restoration	
		11:00 - 11:15	STM and ATH1 - Key regulator of floral organ abscission	Vascular Flora of Paddy Mountain Plant Preserve, Ashe County, North Carolina	Age influences environmental preference choices of Flamingo-baited Cuttlefish ( <i>Ascoteuthis</i> sp.)	The effect of temperature and soil type on the growth of an imparioid, southern Appalachian endemic, <i>Houstonia montana</i> (Rubiaceae)	Effectiveness of Pooled Gastric and Intestinal Lavage in Microplastic Research	Historical Land Change in Charleston Harbor: Insights from Digitized Maps and Landscape Metrics	
		11:15 - 11:30	Soluble TNF-alpha might play a role in facilitating DMSO-induced death of triple negative breast cancer cells	Preliminary Vascular Plant Flora of Cloudland Canyon State Park, Dale County, Georgia.	Swimming behavior of longfin squid <i>Doryteuthis pealeii</i> paralarvae	Examination of three control methods to remove and kill Chinese Privet ( <i>Ligustrum sinense</i> ) in a Tennessee State Park	Mapping Change using GIS: Land Use Dynamics in Paulding County Georgia Amidst Rapid Population Growth		
		11:30 - 11:45	You Can Help Cure Blood Cancers & Diseases	A Vascular Flora of a Historically African American Recreation Area, Booker T. Washington State Park in Hamilton County, Tennessee	Nesting Behavior and Habitat Selection of the Wood Thrush	Cogongrass ( <i>Imperata cylindrica</i> ) Invasion in the southern United States: molecular assessment of the wild-type invasive and ornamental varieties	A novel approach to retention pond renovation projects and the effect on the local tortoise population.		
	LUNCH	11:45-1:30							
	ORAL PRESENTATION SESSIONS / SYMPOSIA / WORKSHOPS		<b>MICROBIOLOGY A</b>	<b>PLANT COLLECTIONS AND HERBARIUM</b>	<b>ANIMALS: Animals: Entomology / Invertebrates / Parasitology A</b>	<b>CONSERVATION GENETICS</b>	<b>ANIMALS: HERPETOLOGY</b>	<b>ECOLOGY: COMMUNITIES A</b>	
			1:30 - 1:45	Navigating Polluted Waters: Examining the Role of Host-Associated Microbes in Aquatic Ecosystems	Beyond the classroom: Immersive learning through herbarium collections	"Case" studies of caddisfly (Trichoptera) Lineage shortfall	Hybridization and the distribution of color phenotypes in great smoky mountains Phoebe	A Herpetofaunal Inventory of the Wildsumaco Wildlife Sanctuary in Ecuador: Lessons from one of Earth's Richest Biodiversity Hotspots	An Update on the Carnivore Fauna of Wildsumaco Wildlife Sanctuary, Ecuador
			1:45 - 2:00	Phenotypic Analysis of Phage-Host Interactions	Extending SERENc herbarium records with new functionality in Symbiota 3.1.	Buzzed and Bothered: Investigating the Impact of Psychoactive Plant Alkaloids on Bumblebee Behavior	Impact of powerlines Right-of-way (ROW) on Non-migratory birds: Field Sparrows, Northern Cardinals, and Song Sparrows.	Stable isotope analysis reveals demographic variation in diet between adult and juvenile eastern box turtles	Elevational structuring of medium large species of mammals on Sumaco Volcans, Ecuador.
			2:00 - 2:15	Phage-Host Interactions: Getting Closer to Discovering Phage Gene Functions	Lafayette Frederick in Hawaii! (1945-1948)	New Host Records for Nearctic Piccer Wasps (Phymenoptera: Dryinidae) through DNA Barcoding	Transcriptomic Analysis of the Endangered Manatee: Identification of Immune Specific Gene Signatures	Assessing Niche Overlap of Isotopic and Morphological Space in Plethodontid Salamanders	Distribution, Diversity, and Gene Flow of Crayfish Species Across the Eastern Continental Divide
		2:15 - 2:30	Exploring the Potential of Equine Hepesvirus Type-1 as an Oncolytic Agent for the Treatment of Human Prostate Cancer	Is Spring Break Coming Early? Effects of Climate Change on Alabama's Native Plant Phenology	Change in abundance of native vs. introduced lady beetles over five decades	Barcode Barriers: Mitochondrial DNA in Freshwater Mussels	"Different Roads Sometimes Lead to the Same Castle": Development of Ventral Pigmentation in Dark-Skinned Dromoglossinae Salamanders of Northern Georgia	Effects of an invasive crayfish and impoundments on macroinvertebrate assemblages.	
		2:30 - 2:45	Unraveling the Microbial Diversity of Freshwater Ecosystems Under Environmental Pollution	Mississippi Macrophyte Monitoring: Surveys for detecting aquatic invasive plants	Diversity of Panamanian Amphipods (Crustacea) Within the Parvorder Caprellidea	Developing Conservation Tools: Microsatellite Markers for <i>Cypridium parviflorum</i>	Assessment of spatial and temporal variation in relative frequencies of alternative reproductive tactics in the Blue Ridge Two-Lined Salamander ( <i>Eurycea wilderaei</i> )	Factors Influencing Stream Macroinvertebrate Diversity	
		2:45 - 3:00	Streptococcus equi subspecies equi biofilm formation and role in environmental and host persistence	Searching for Novel Superhydrophobic Surface Structures in Tropical Plants	Scientific Illustration of Amphipod Crustaceans from Sapelo Island, GA	Turning it Up: Assessing the genetic diversity of Allium tricoccum Allon complex in Great Smoky Mountains National Park using Next-Gen sequencing	Of Hurricanes and Hellbenders: Catastrophic River Flooding from Hurricane Helene Offers Variable Impacts for Eastern Hellbender ( <i>Cryptobranchus alleganiensis</i> ) Habitat Restoration	Those Dam Parasites: How Human Activity Impacts the parasite communities of fishes surrounding Alabama's Dam over time	
		3:00 - 3:15	Levels of Completeness Across Fields of Herbarium Data: An Exploration of Tennessee's Available Specimen Data	A Snapshot of Intertidal Crustaceans from Sapelo Island, GA				Area-limited versus isolation-limited species: testing whether land vertebrates' differing responses to island area and isolation produce non-nested island communities in the Gulf of Maine	
		Lightning Talks (10358, 9673, 9908, 9861, 10444)	3:20 - 3:45						
AFTERNOON POSTER SESSION (Even #s)		3:45 - 5:00							
ORAL PRESENTATION SESSIONS / SYMPOSIA / WORKSHOPS	MORNING POSTER SESSION (Odd #s)	8:00 - 9:15							
	Lightning Talks (9591, 9946, 9763, 10098, 9912, 10362)	9:20 - 9:50							
	BREAK	9:50 - 10:00							
		10:00 - 10:15	<b>GENETICS AND CELL &amp; MOLECULAR BIOLOGY B</b> Identification of Biomarker genes in liver and kidney cancer progression: A shared high-throughput and molecular docking approach with potentials for targeted therapeutic interventions	<b>PLANT PHYSIOLOGY // ANATOMY &amp; PHYSIOLOGY</b> What lies beneath: Fungal associations of native <i>Dioscorea missouriensis</i> (Yucca) roots	<b>ANIMALS: Animals: Entomology / Invertebrates / Parasitology B</b> A Severe Head Lice Infestation in a Pediatric Facility: Forensic Insights	<b>ECOLOGY: CONSERVATION B</b> Team Terrain: Impacts of Undergraduate Research Experiences, Participatory Science, and Strategic Partnerships	<b>ECOLOGY: AQUATIC B</b> Population Genetics of Three Mussel Species in the Genus <i>Elgisia</i>	<b>ECOLOGY: CLIMATE / POPULATIONS</b> The Effect of Temperature and Precipitation on Flowering Times and Germination in <i>Seymouria</i> (Droseraceae)	
		10:15 - 10:30	Predicting 3D protein structure of gene fusions in AMKL patients using AlphaFold	Detection and Prevalence of Citrus Blight Infection in Florida Varieties of Citrus	Infanticide and Neonaticide: How Often are these Clines Coincided?	Comparing current population trends with previous population viability analysis predictions	Sublethal Temperature Effects on North American Unionid Mussels: Exploring Thermal Vulnerabilities	Using machine learning techniques to predict the spread of invasive species: <i>Cyprinus blagotherodes</i> as a case study.	
		10:30 - 10:45	Comparative Analysis of Histone Modification Distribution in HepG2 cells in Response to HBV Infection and HCC Development	Enhancing <i>Sarcocolla leucophylla</i> Germination: The Role of Water and Substrates	Species Invasions as natural ecological and evolutionary experiments	Recycling the biomass of marine fouling organisms into ceramic sculptures	An Examination of Zooplankton Abundance and Diversity off the Eastern Georgia Coast and Estuaries	Climate Growth Relationships Among Longleaf and Associated Pines in Southeastern Virginia	
		10:45 - 11:00	Investigating Missense Variants in $\gamma$ -secretase Cleavage Site of Alzheimer's-related Amyloid Precursor Protein	Searching for novel superhydrophobic surface structures in tropical plants of the Cape Conservatory	Diet of the harvestman <i>Leiobunum formosum</i> (Oribineae, Sclerosomatidae)	Sealing Spots: Long term study on the margay at a mid-elevation site in the eastern Andean foothills of Ecuador	Urban Stream Syndrome Reduces Macroinvertebrate Functional Feeding Diversity in Headwater Streams	Increasing the Accuracy of Tree-Ring Data Processing to Improve Models for Reconstructing Climate	
		11:00 - 11:15	Characterizing the Mccr1 <sup>+/+</sup> mouse as a model of early age-related Macular Degeneration	Investigations into the phylogeny, phytochemistry, and environmental impacts of <i>Alternanthera philoxeroides</i> , an undergraduate research project story	Material and mechanical properties of the mandibles of the invasive granulate ambrosia beetle, <i>Xyleborinus cacuminatus</i> (Curculionidae), through different life stages and sexes	Species distribution modeling of invasive wood boring beetle <i>Anoplophora chinensis</i>	Microbial Biodiversity of the James River Rock Pool Ecosystem	Temporal Dynamics of Grassland Bird Communities in Response to Agricultural Disturbances	
		11:15 - 11:30	Indole Treatment of <i>C. elegans</i> Rescues Illness Induced by the Opportunistic Pathogen <i>Caenorhabditis</i>	Shell history of leatherback turtles (Testudines: Dermochelyidae) with a new specimen from the Oligocene of Alabama	Prevalence of <i>Trypanosoma cruzi</i> in populations of Nine-Banded Armadillo ( <i>Dasypus novemcinctus</i> ) in Southwest Georgia: Implications for Chagas Disease and Public Health	Species distribution modeling and connectivity analysis as tools for predicting patterns of invasion: a case study of the spotted lanternfly <i>Lygaea delticata</i> Hemiptera	Impact of exogenous oxidative stress on cyanobacteria circadian rhythms	The Effects of Female Age on Eastern Bluebird White Blood Cell Counts	
		11:30 - 11:45	Increase of EMG activity supports the presence of movement evoked reflexes during the tail nociceptive withdrawal response	11:45-12: Invaluing the rate of intrinsic foot muscles in modulating foot shape while performing asymmetric balance tasks and walking on beaded surfaces		Species distribution modeling for predicting invasions by <i>Lymantria mathura</i> (Lepidoptera: Bombyxidae)	Does the presence of a generalist predator affect water quality within a southeastern pond?		
	LUNCH	11:45-1:30							
	ORAL PRESENTATION SESSIONS / SYMPOSIA / WORKSHOPS		<b>MICROBIOLOGY B</b>	<b>PLANT SYSTEMATICS</b>	<b>ANIMALS: Animals: Entomology / Invertebrates / Parasitology C</b>	<b>GENETICS AND CELL &amp; MOLECULAR BIOLOGY C</b>	<b>SCHOLARSHIP OF TEACHING &amp; LEARNING</b>	<b>ECOLOGY: COMMUNITIES B</b>	
			1:30 - 1:45	Bacteria on Paper Currency: A Direct Press Method, Survival and Implications	Taxonomy of the lepidote <i>Rhododendron</i> species (Ericaceae)	Some insects breathe with their mouths: Gas exchange in the elongated proboscides of Lepidoptera	The effect of a Charcot-Marie-Tooth Mutation on Litigium, Sleep Behavior and Motor Function in <i>Drosophila melanogaster</i>	The Biology Cafe: Learning in a Social Setting	Understanding how burial traits impact bacterial and yeast community composition in post-fire garden soil
			1:45 - 2:00	Characterization of the Interaction Between Adenoviral Protein E4 L1k and the DNA-PK-dependent DNA Damage Response	Vegetative anatomy of <i>Physalis glabrosa</i> (Brassicaceae), with systematic and environmental considerations	Behavioral and Morphological Insights into Water-Associated Ecological Classification of <i>Pteroplysia</i> Fleas	Can a variant of lamin A slow down the process of aging?	Using Wikipedia editing to improve research and communication skills in an undergraduate science writing course	Network Analysis of Plant-Microbe Interactions Influences Plant Fitness and Shows Overlap with Plant-Pollinator Interactions
			2:00 - 2:15	Investigating the mechanism of isopropyl BPE as a treatment against <i>Toxoplasma gondii</i>	<i>Hellenanthus waccamawensis</i> , a new species of sunflower endemic to the Cape Fear Arch region of North and South Carolina, United States	Assessing the foraging habits of two sunflower specialist bees (Melittidae, Apidae) using DNA barcodes ITS2 and trnL	Lowland River Valley Drivers Patterns of Population Genetic Structure in Southern Appalachian Woodland Jumping Mice ( <i>Haplozoapus insignis</i> )	Integrating Authentic Learning into Large Microbiology Classes: A Case Study on Glycoactive-Degrading Microbes	Pollination niche partitioning in <i>Rhedia</i> (Melastomataceae)
		2:15 - 2:30	Using machine learning clustering models to determine co-regulated genes in <i>Bacteroides</i> genomes	Testing the monophyly of Neotropical Palo Santo trees ( <i>Bursaria graveolens</i> ; Burseraceae) using ddRADseq data	Epigeal arthropod community dynamics as a function of urbanization in Guilford County, NC	Dynamic Landscape of the Venus Flytrap ( <i>Dionaea muscipula</i> ) Transcriptome	Integrating Constructive Dialogue Pedagogy into the Genetics Classroom to Assess Potential Impacts on Students' Global Perspectives, Intercultural Competency, and Moral and Ethical Reasoning Skills	Plant community dynamics and arbuscular mycorrhizal responses following early stages of drawdown in a large mammal-free lake	
		2:30 - 2:45	Microbial Communities in Standing Dead Trees in Ghost Forests are Largely Aerobic, Saprotrophic, and Methanotrophic	Oak mistletoe, <i>Phoradendron leucarpum</i> (Vaccaceae), alters host tree architecture	Stream Health of the Little River in Townsend, TN as Determined by Biological Indicators, Aquatic Macroinvertebrates	A multi-pronged approach to understanding origins, relationships, and limiting factors of naturalized Florida <i>Saccharum</i> populations	Developing fully online Anatomy and Physiology courses on a limited budget that are comparable to face-to-face versions	Forest Management Effects after Tornado Disturbance on Abiotic Conditions and Tree and Soil Microbial Communities in a Mixed Hardwood Forest in Kentucky	
		2:45 - 3:00	MtDNA Analysis for Microbial Discovery and Classroom Experiential Learning	The distribution of oak mistletoe ( <i>Phoradendron leucarpum</i> (Raf.) Reveal & M. C. Johns.) is more restricted with regards to habitat type than that of its <i>ycan</i> <i>rubiginosus</i> disperser	Seeing the Spectrum: Investigating Color Vision in Freshwater Crayfish	Secrets of the Swamp: Uncovering the Genetic Diversity of a Federally Threatened Wetland Species, Swamp Pink ( <i>Heliconia bullata</i> L.)	Field Botany Made Easy: A Practical Guide for Educators	Shifts in Avian Community Composition in Response to Eastern Hemlock Decline in Great Smoky Mountains National Park	
		3:00 - 3:15					Using Naturalist to Engage Students in Biodiversity Inventories	Assessing Avian Species Change in Response to Hemlock Decline: A 25-Year Follow-up in Great Smoky Mountains National Park	
		Lightning Talks (9865, 9834, 10336, 9864, 9785)	3:20 - 3:45				3:15-3:30: Introducing a New Class of Ecosystems Library Tools to Protect Global Biodiversity Hotspots		
AFTERNOON POSTER SESSION (Even #s)		3:45 - 5:00							