

# Association of Southeastern Biologists 2024

## Meeting-At-A-Glance

Thursday, March 20 - 23, 2024  
Chattanooga Convention Center

### Wednesday, March 20

Time	Event	Location
9:00 am – 4:00 pm	Exhibitor Set-up	Hall C
11:00 am – 9:00 pm	Registration Open	Hall C Foyer
11:00 am – 2:00 pm	Exhibitor's Coffee Break (exhibitors only)	Hall C
1:00 pm – 2:00 pm	ASB Executive Committee Meeting	Hall C
2:00 pm – 4:00 pm	SABS Executive Council Meeting	Room 18
6:30 pm - 7:30 pm	<b>WELCOME AND PLENARY</b> Welcome: ASB 2024 R.H. Martin Plenary Speaker   Karen Lloyd	Room EFG
7:30 pm - 9:00 pm	Welcome Reception - Ticketed Event	Hall C

### Thursday, March 21

Time	Event	Location
7:00 am – 5:00 pm	Registration Open	Hall C Foyer
7:00 am – 8:00 am	ASB Past President's Breakfast Meeting	Room 17
7:00 am – 5:00 pm	PowerPoint Preview Check – Lightning Talks	Hall C
8:00 am – 9:30 am	<b>ASB POSTER PRESENTATION MORNING SESSION</b> Presenters are asked to stand with their poster during one session	Hall C
8:00 am – 5:00 pm	Exhibits Open	Hall C
8:00 am – 10:00 am	Coffee Break Service	Hall C
9:30 am – 10:00 am	Lightning Talks	Hall C
9:30 am – 11:30 am	Workshop: The Only Constant is Change: Programmatic Workflows to Access, Prepare, and Work with NEON Data	Room 3
10:00 am – 12:40 pm	SYMPOSIUM: Southeast Chapter of the Ecological Society of America – Climate Change Ecology in Southeastern Systems	Room 4
10:00 am – 12:00 pm	SYMPOSIUM: Fire History and Fire Effects in Southeastern U.S. Ecosystems—Implications for Management	Room 2
10:15 am – 11:15am	Workshop: Honey I Blew Up the Molecules: 3D Printing as a Multi-faceted and Multi-disciplinary Pedagogical Practice	Room 11
10:15 am – 11:45 pm	<b>TALK SESSION 1</b> GENETICS AND CELL & MOLECULAR BIOLOGY PLANT SYSTEMATICS CONSERVATION GENETICS ECOLOGY: ECOSYSTEMS AND LANDSCAPES ECOLOGY: PHYSIOLOGICAL ECOLOGY: AQUATIC A	Room 6 Room 5 Room 12 Room 13 Room 14 Room 15

11:45 am - 1:00 pm	TRIBETA Joint Business Meeting and Mixer (all delegates MUST attend)	Room 11
12:00 pm - 1:30 pm	Lunch ASB Diversity Committee ASB Education Committee SABS/BSA Members Lunch	Room 17 Room 18 Room 3
1:30 pm – 3:30 pm	WORKSHOP: Hitting the Ground Running with Your Graduate School Applications --Hosted by ASB's Human Diversity Committee	Room 2
1:30 pm – 2:30 pm	WORKSHOP: Stories from the Field: Best practices for Field Experiences	Room 3
1:30 pm – 3:00 pm	<b>TALK SESSION 2</b> MICROBIOLOGY PLANT FLORISTICS ANIMALS: ENTOMOLOGY A ANIMALS: HERPETOLOGY ECOLOGY: CONSERVATION A ECOLOGY: COMMUNITIES A SCHOLARSHIP OF TEACHING AND LEARNING	Room 6 Room 5 Room 4 Room 12 Room 13 Room 14 Room 15
2:45 pm – 4:15 pm	WORKSHOP: Our redesigned and revamped Eastern Biologist journal–eBio	Room 3
3:00 pm - 5:00 pm	Coffee Break Service	Hall C
3:00 pm – 3:30 pm	Lightning Talks	Hall C
3:30 pm – 5:00 pm	<b>ASB POSTER PRESENTATION AFTERNOON SESSION</b> Presenters are asked to stand with their poster during one session TriBeta Posters	Hall C
5:15 pm - 6:15 pm	SABS/BSA Student Reception	Marriott - Tennessee Room - 1st Level
6:45 pm - 11:00 pm	<b>Transportation to the Social revolving in front of the Marriott hotel 11th Street.</b>	Marriott - 11th Street
7:00 pm - 11:00 pm	<b>Thursday NIGHT SOCIAL</b> - Ticketed Event Live Music, Food, Drinks, Games	Tennessee Aquarium

## Friday, March 22

Time	Event	Location
7:00 am - 12:00 pm	Registration Open	Hall C Foyer
7:00 am – 5:00 pm	PowerPoint Preview Check – Lightning Talks	Hall C
8:00 am – 9:30 am	<b>ASB POSTER PRESENTATION MORNING SESSION</b> Presenters are asked to stand with their poster during one session TriBeta Posters	Hall C
9:30 am – 10:00 am	Lightning Talks	Hall C
8:00 am - 10:00 am	Coffee Break Service	Hall C
7:30 am – 6:00 pm	TRIBETA Officers & Judges Room	Room 16
9:30 am – 12:00 pm	SYMPOSIUM: Conservation of Southern Appalachian Salamanders	Room 2
10:15 am – 11:30 am	TRIBETA SESSION 1	Room 11

10:15 am – 11:45 am	<b>TALK SESSION 3</b> GENETICS AND CELL & MOLECULAR BIOLOGY B PLANT COLLECTIONS AND HERBARIA ANIMALS: ENTOMOLOGY B ANIMALS: BEHAVIOR A ECOLOGY: CONSERVATION B ECOLOGY: COMMUNITIES ECOLOGY: AQUATIC B	Room 6 Room 5 Room 4 Room 12 Room 13 Room 14 Room 15
10:00 am – 12:00 pm	WORKSHOP: Social Field Safety : Being more inclusive and understanding risks for marginalized and historically excluded individuals who professionally work outdoors	Room 3
12:00 pm - 1:30 pm	SHC SE Chapter Lunch and Business Meeting ESA Lunch and Business Meeting	Room 17 Room 18
1:30 pm – 2:45 pm	TRIBETA SESSION 2	Room 11
1:00 pm – 3:55 pm	SYMPOSIUM: Women in Biology Inspired by Women in Biology	Room 4
1:30 pm – 3:00 pm	WORKSHOP: Fulbright Opportunities for Biologists	Room 3
1:30 pm – 2:45 pm	<b>TALK SESSION 4</b> GENETICS AND CELL & MOLECULAR BIOLOGY B ANIMALS: ENTOMOLOGY C ANIMALS: BEHAVIOR B ECOLOGY: CONSERVATION C ECOLOGY: POPULATIONS SCHOLARSHIP OF TEACHING AND LEARNING	Room 6 Room 5 Room 12 Room 13 Room 14 Room 15
1:30 pm - 3:00 pm	SYMPOSIUM: Memoirs in Aquatic Biology: A Tribute to Dr. Mark Schorr—Teacher, Mentor, and Scientist	Room 2
3:00 pm - 5:00 pm	Coffee Break Service	Hall C
3:00 pm – 3:30 pm	Lightning Talks	Hall C
3:30 pm – 5:00 pm	<b>ASB POSTER PRESENTATION AFTERNOON SESSION</b> Presenters are asked to stand with their poster during one session	Hall C
5:00 pm – 6:00 pm	TRIBETA Joint Session and Awards	Room 11
5:00 pm – 6:00 pm	ASB Members Meeting (All ASB members invited)	Room 12
7:00 pm – 9:00 pm	<b>ASB AWARDS BANQUET</b> - Ticketed Event	Room EFG

### Saturday, March 23

Time	Event	Location
7:00 am - 4:00 pm	<b>FIELD TRIPS - Leaders will reach out with final agenda</b>	
7:00 am – 12:00 pm	EC Breakfast and meeting (for Current and Incoming EC members only)	East   West Room



## Thursday Session 8:00 - 9:30 AM

POSTER #	Title	Topic
1	The Effect of Music Therapy on the Concentration of College Students	Anatomy and Physiology
3	The Effect of the Visual Sensory Response on Memory and Retention	Anatomy and Physiology
5	The Effect of Physical Sensory Response on Memory and Retention	Anatomy and Physiology
7	A gene encoding a nicotinic acetylcholine receptor subunit, <i>acr-6</i> , is required for ethanol and nicotine state dependent learning in <i>Caenorhabditis elegans</i>	Animal: Behavior
9	The International Frontiers in Social Evolution seminar series: An engaging way to learn about animal social evolution	Animal: Behavior
11	The Gator Chomp: Investigating the Influence of Prey Mobility on Feeding Kinematics of Alligator <i>mississippiensis</i>	Animal: Behavior
13	Impact of Parasitic Blowflies and Habitat Quality on Nestling Songbird Growth	Animal: Behavior
15	Prevalence of antibodies to <i>Trypanosoma cruzi</i> in black bears from California	Animals: Entomology/Invertebrates/Parasitology
17	Soil Moisture Alters Belowground Nematode Interactions	Animals: Entomology/Invertebrates/Parasitology
19	Life Underground: Exploring Behavior of <i>Curculio sayi</i> Larva in Soil	Animals: Entomology/Invertebrates/Parasitology
21	Shelter Preference of <i>Cambarus robustus</i> , a Surrogate for The Federally Threatened <i>Cambarus callinans</i>	Animals: Entomology/Invertebrates/Parasitology
23	Identifying pollinators of wild ramps using the COI barcode	Animals: Entomology/Invertebrates/Parasitology
25	From lawn to oasis: sub-urban pollinator conservation through native landscape design	Animals: Entomology/Invertebrates/Parasitology
27	Seasonal Variation in Infection Intensity of <i>Desmognathus amphileucus</i> larvae by the trematode <i>Metagonimoides oregonensis</i>	Animals: Herpetology
29	Monitoring Restoration Efforts for Eastern Hellbender ( <i>Cryptobranchus alleganiensis</i> ) Habitats	Animals: Herpetology
31	Sexual dimorphism of head size in <i>Notopthalmus viridescens viridescens</i>	Animals: Herpetology
33	Effects of temporal variation in habitat moisture on the success of anuran behavioral strategies	Animals: Herpetology
35	Influence of Incubation Techniques and Parentage on Boldness in <i>Hydrodynastes gigas</i>	Animals: Herpetology
37	Increasing the Accuracy of Tree-Ring Data Processing to Improve Models for Predicting Future Climate	Ecology: Climate
39	Analysis of the accuracy of student-collected CURE data in an outdoor setting	Ecology: Climate
41	Comparison of carbon storage in second-growth forests of Panama and the Piedmont of North Carolina	Ecology: Climate
43	Secondary successional changes in Elon University Forest following the 2014 ice storm	Ecology: Communities
45	Dynamic Connectivity of Water Bodies May Facilitate Alternate Guinea Worm Transmission Pathway	Ecology: Communities
47	Tree mortality and replacement during secondary succession in a North Carolina Piedmont forest	Ecology: Communities
49	A genetic diversity assessment of <i>Allium tricoccum</i> populations in Great Smoky Mountains National Park using Next Generation SNP discovery	Conservation Genetics
51	Development of Microsatellite Markers for the Yellow Lady Slipper Orchid ( <i>Cypripedium parviflorum</i> ).	Conservation Genetics
53	Genetic diversity of the Timber Rattlesnake ( <i>Crotalus horridus</i> ) in Western North Carolina	Conservation Genetics
55	Anthropogenic Disturbances and their effect on Ghost Crab ( <i>Ocypode quadrata</i> ) Burrow Architecture	Ecology: Conservation
57	Impacts of soil amelioration on plant communities: From buried building to native meadow restoration.	Ecology: Conservation
59	Survey of Disjunct Red Spruce ( <i>Picea rubens</i> ) Stands in the Rich Mountain and Alarka Laurel Basins, North Carolina	Ecology: Conservation
61	Thriving on the Threshold: Royal Catchfly ( <i>Silene regia</i> ) exhibits increased growth and reproduction along a forest-edge gradient in a remnant prairie community in Georgia	Ecology: Conservation
63	Stocking Density Effects of Non-Native Trout on Native Fish Populations in Low Order Streams in North Georgia, USA	Ecology: Conservation
65	Evaluating the success of a dune restoration on Tybee Island, Georgia: monitoring sand movement and plant community dynamics	Ecology: Conservation
67	Differences in soil communities at longleaf pine restoration sites	Ecology: Conservation
69	Dual Analysis of Biomass and Carbon Sequestration in Secondary Successional Forests in the Piedmont of North Carolina Utilizing Geographic Information Systems and Field Truthing Methods	Ecology: Ecosystems and Landscapes
71	Heavy Metal Analysis on Freshwater Turtle Species: Examining the Effects of Industry in Dalton, Georgia.	Ecology: Ecosystems and Landscapes
73	From landfill to native meadow: Examining impacts of pre-restoration work on soil attributes	Ecology: Ecosystems and Landscapes
75	Establishment and Growth Patterns of Southern Appalachian Carolina Hemlock Ecosystems	Ecology: Ecosystems and Landscapes
77	Alligator weed produces seeds in North America: Implications for invasive alligator weed reproduction.	Ecology: Freshwater
79	Investigating Fish Community Diversity Within The Urbanizing Watershed of Lawson's Fork Creek	Ecology: Freshwater
81	Does Size Matter? Investigating the Role of Habitat size and Abiotic Heterogeneity on Wetland Plant Diversity in the Piedmont	Ecology: Freshwater
83	Benthic macroinvertebrate survey of the Conasauga River	Ecology: Freshwater
85	The role of sRNAs in <i>Microcystis aeruginosa</i> : Insights into Gene Expression and Environmental Acclimation	Ecology: Freshwater
87	Assessing Fish Condition in Lawson's Fork Creek Watershed: Does Urbanization Impact the Condition of Three Fishes?	Ecology: Freshwater
89	Interbasin transfer of <i>Etheostoma longimanum</i> into the Roanoke River drainage	Ecology: Freshwater
91	Epiphytic diatom production on the seagrass ( <i>Thalassia testudinum</i> ) in northern Gulf of Mexico	Ecology: Marine
93	Comparing Sea Turtle Presence and Bycatch Events across Pre-Nesting and Nesting Seasons in Panama City, Florida	Ecology: Marine
95	The Health, Parasite Abundance, and Associated Shell Strength in Eastern Oysters ( <i>Crassostrea virginica</i> ) from the Georgia Coast	Ecology: Marine
97	Enhancing Antimicrobial Efficacy and Biofilm Inhibition Using MXene Nanomaterial-Based Coatings on Medical Devices	Cell and Molecular Biology
99	Predicting ovarian cancer using comorbidities and demographics as risk factors	Cell and Molecular Biology
101	Elucidating determinants at the G $\alpha$ 13 N-terminus for binding to the $\beta$ dimer.	Cell and Molecular Biology
103	Invertebrate substituents of a conserved region in G $\alpha$ 13 reveal determinants of SRF signaling and RhoGEF binding	Cell and Molecular Biology
105	Introducing Immunofluorescence Microscopy of Tetrahymena in Cell Biology Lab	Cell and Molecular Biology
107	RNAseq reveals evidence for phosphate-dependent control of symbiont cell division in the model anemone <i>Euxaiptasia diaphana</i>	Cell and Molecular Biology
109	Understanding the Overexpression of TAF2 and TAF13 in Eukaryotic cells	Cell and Molecular Biology
111	Assessing protein interactions of a potential chloroplast spliceosome	Cell and Molecular Biology
113	Comparative effects of all-trans and 4-hydroxy retinoic acid on early <i>Danio rerio</i> development	Developmental Biology
115	Unraveling the Microbial Diversity of Ecosystems under the influence of Environmental Pollution	Genetics
117	Genetic Diversity of Passerines in Metro Atlanta	Genetics
119	Secrets of the Swamp: Uncovering the genetic diversity of a federally threatened plant species, swamp pink ( <i>Helonias bullata</i> )	Genetics
121	Pvr Modulation and its Relation to DM1 Muscle Wasting in <i>Drosophila</i>	Genetics
123	Development of microsatellite markers for <i>Huperzia lucidula</i> the Shiny Firmoss.	Genetics
125	What's in a Name? Microsatellite Analysis of Rice Varietal Diversity in Madagascar	Genetics
127	Role of Dinucleotide Signaling Molecule in <i>Staphylococcus aureus</i> Pathogenesis	Microbiology
129	Effects of D- and L-amino acid derivatives on biofilm inhibition	Microbiology
131	NorA efflux pump inhibition in <i>S. aureus</i> using novel lead compounds in a DiOC3 real-time efflux assay	Microbiology
133	Microbiota associated with meiofaunal nemertean reveals evidence of phyllosymbiosis	Microbiology
135	Inhibition of <i>Staphylococcus epidermidis</i> Biofilm Using Bacterial Supernatants and Herbal Extracts	Microbiology
137	Identification of Antimicrobial Producing Bacteria from Soil Collected in Hampstead, NC	Microbiology
139	Microbial Xylitol Synthesis	Microbiology
141	The root of the problem: examination of nursery bed fungal communities provides insight into white oak seedling health and reforestation	Mycology and Lichenology
143	Corticolous Lichen Diversity on an Urbanized Campus Located in the Rural Southern Appalachian Mountains	Mycology and Lichenology
145	Soil fungal community structure in response to long-term soil health management practices in continuous cotton cropping	Mycology and Lichenology
147	The Bishop Museum and University of Hawaii Expedition to Kauai (1930-1931)	Plant Collections and Herbaria
149	Cataloguing and Digitizing Specimens of the Violet S. Phillips Herbarium	Plant Collections and Herbaria
151	The 14 Day Excursion of the Bishop Museum and University of Hawaii to the Big Island of Hawaii	Plant Collections and Herbaria
153	A survey of trees, shrubs, and woody vines of Blue Springs State Park and Forever Wild Tract, Barbour County, Alabama, as a part of a Dendrology course at Troy University	Plant Floristics
155	Viola species found in Pine Mountain State Resort Park, Kentucky	Plant Floristics
157	The Vascular Flora of Thompson Creek, Chesterfield County, SC	Plant Floristics
159	The Effect of a High Glucose Diet and Artificial Food Coloring on Dopaminergic Neurons in Nematodes	Genetics
161	The Role of puf-8 in Reproductive Organ Tumor Formation in <i>Caenorhabditis elegans</i>	Genetics
163	The Role of SIR-2.2 in Lifespan and Longevity in <i>Caenorhabditis elegans</i>	Genetics
165	Characterization of Axon Breakage and Regrowth in <i>Caenorhabditis elegans</i> $\beta$ -Spectrin Mutants	Genetics
167	The Role of Parquat on $\alpha$ -Synuclein Aggregate Formation in a Nematode Parkinson's Disease Model	Genetics
169	The Effect of Caffeine on Learning and Memory in <i>Caenorhabditis elegans</i>	Genetics
171	Molecular Genetic Interaction Analysis of Extra Cellular Matrix and Cell Adhesion Genes During Nematode Vulval Formation	Genetics
173	The Characterization, Identification, and Parasitology of a Blue Biofluorescent Millipede Species	Animals: Entomology/Invertebrates/Parasitology
175	The Role of Hox Genes in Sea Squirt Metamorphosis and Regeneration	Developmental Biology
177	Transgenerational Effects of Atrazine on <i>Caenorhabditis elegans</i> Brood Size	Developmental Biology
179	Automating Invasive Species Analysis: A Case Study of Bamboo Detection and Identification Using Artificial Intelligence and DNA Barcoding	Plant Systematics
181	Implementation of a Multi-Year Pre-Collegiate Biomedical, Engineering, Environmental, and Sustainability Science Research Program	Scholarship of Teaching and Learning
183	Implementation of an eDNA Program to Monitor the Endangered Laurel Dace ( <i>Chrosomus saylori</i> )	Ecology: Conservation
185	Molecular identification and microplastic accumulation in Asian clams ( <i>Corbicula fluminea</i> ) along the Tennessee River	Ecology: Freshwater
187	Trends in Duck Sex Ratios of Twenty Species in Eastern North America	Ecology: Populations
189	The Quantification of Sulfamethoxazole Resistance Gene ( <i>su1</i> ) in the Tennessee River	Ecology: Freshwater
191	What, if anything, is the amphibian microbiome?	Animals: Herpetology

Thursday Session 3:30 - 5:00 PM

POSTER #	Title	Topic
2	Does Social Organization, Litter Size, Sexual Dimorphism, and Phylogeny Influence Multiple Paternity in Mammals?	Animal: Behavior
4	Sex Differences in Head Scanning Behavior in Long-Evans Rats in the Cue-Mismatch Task	Animal: Behavior
6	Assessing the Rearing Component of Chick Development in Relation to the Personality of Breeding Tree Swallows ( <i>Tachycineta bicolor</i> )	Animal: Behavior
8	The Effect of Human Constructed Pathways on Carabid Beetle Movements	Animal: Behavior
10	Lycosid Abundance and Diversity along an Anthropogenic Gradient	Animals: Entomology/Invertebrates/Parasitology
12	Alpha Gal Risk Factor Assessment of Ticks in Southwest Virginia	Animals: Entomology/Invertebrates/Parasitology
14	Prevalence of worm parasites in flat back millipedes	Animals: Entomology/Invertebrates/Parasitology
16	Comparison of Infection Prevalence and Intensity by the Trematode <i>Metagonimoides oregonensis</i> Between Two Species of Plethodontid Salamander	Animals: Herpetology
18	Stream Salamander (genus <i>Desmognathus</i> ) Distributions Along Southern Appalachian Headwater Streams	Animals: Herpetology
20	Effects of elevation on morphological traits in a vulnerable salamander: <i>Plethodon welleri</i> (Weller's salamander)	Animals: Herpetology
22	Invasion of the Squirrel Treefrogs and Other Grand Speculations	Animals: Herpetology
24	What, if anything, is the amphibian microbiome?	Animals: Herpetology
26	Monitoring amphibian diversity at a floodplain wetland creates training opportunities for undergraduates and highlights the importance of long term data for informing conservation	Animals: Herpetology
28	Estimating the Carbon Sequestration of Cane Creek Mountains Natural Area Using GIS	Ecology: Climate
30	Co2 Emissions of Differing Farming Practices	Ecology: Climate
32	Correlations between Climate and Growth in Pine Species from the Blackwater Ecological Preserve, Isle of Wight Virginia	Ecology: Climate
34	It's a sticky situation: abundance and identity of arthropods trapped on tarflower ( <i>Bejaria racemosa</i> ) inflorescences	Ecology: Communities
36	Shrub species differ in their ability to create fertility islands in Florida rosemary scrub	Ecology: Ecosystems and Landscapes
38	Using stable isotopes to examine dietary niche space of three coexisting Plethodon salamanders in North Carolina	Ecology: Communities
40	White-Tailed Deer ( <i>Odocoileus virginianus</i> ) Overpopulation & Impact on Floral Diversity and Abundance in Collegedale Tennessee	Ecology: Communities
42	Unraveling the impact of salinity and burial on <i>Morella cerifera</i> growth in a changing barrier island landscape	Ecology: Communities
44	The use of a modified small stem assay for the evaluation of blight resistance in chestnut seedlings	Conservation Genetics
46	Conservation Starts In Our Own Backyard	Conservation Genetics
48	Monitoring the Endangered Cape Fear Shiner ( <i>Notropis Mekistocholas</i> ) presence in the Cape Fear River Basin using environmental DNA	Conservation Genetics
50	American Kestrels in Agricultural Landscapes of the Lower Mississippi Alluvial Valley: Nest Box Occupancy, Reproductive Success, and Pest Control Services	Ecology: Conservation
52	Low-tech seed enhancement technology could improve germination and establishment of longleaf pine understorey perennial forbs.	Ecology: Conservation
54	Analysis of Native Venus Flytrap's Fungal Associations	Ecology: Conservation
56	Analyzing Reproductive Potential in Natural Marshes for <i>Spartina alterniflora</i> in Coastal Georgia Salt Marshes	Ecology: Conservation
58	Understanding how <i>Apis mellifera</i> influence pollinator-microbe interactions	Ecology: Conservation
60	Using Science Sprints to teach research skills: How is biodiversity affected by urban development?	Ecology: Ecosystems and Landscapes
62	Constraints and Mechanisms of Virginia Barrier Island Migration in Response to Sea Level Rise	Ecology: Ecosystems and Landscapes
64	Branching Out: Evaluating the Short-term Course of Woody Debris Decomposition in the Southern Appalachians	Ecology: Ecosystems and Landscapes
66	Quantifying plant functional diversity and composition between coastal dune communities	Ecology: Ecosystems and Landscapes
68	Documenting the Fire History of Pilot Mountain State Park	Ecology: Ecosystems and Landscapes
70	Clinch River Freshwater Mussel Dietary Preferences	Ecology: Freshwater
72	To eradicate or to manage exotic watercress in our campus stream: a benthic macroinvertebrate study addresses this dilemma	Ecology: Freshwater
74	Sweep-net vs. kick-net: comparing the effectiveness of two sampling methods in assessing benthic macroinvertebrates	Ecology: Freshwater
76	A Survey of Aerial and Aquatic Arthropod Diversity Between Reference and Degraded Fluvial Wetlands in the Little Tennessee River Floodplain	Ecology: Freshwater
78	Assessing Atmospheric, Hydrological, and Biological Connections of Microplastics in Southern Appalachian Headwater Streams	Ecology: Freshwater
80	Evaluation of DNA extraction methods to examine freshwater mussel microbiome from four species of freshwater mussel	Ecology: Freshwater
82	Antioxidant properties and biofuel potential of colonial green algae.	Ecology: Freshwater
84	Investigations with NEON: Variability of macroinvertebrates versus Urban and Rural Temperature dynamics in Streams (INVURTS)	Ecology: Freshwater
86	Investigating the Effect of Human Disturbance on Eastern Bluebirds	Ecology: Populations
88	Deer Herbivory and Woody Vegetation Effects on Smooth Coneflower ( <i>Echinacea laevigata</i> ) Growth, Size, and Population	Ecology: Populations
90	Horseshoe Crab Spawning on Cumberland Island and National Seashore, Georgia	Ecology: Populations
92	Host regulation controls the colonization efficiency of <i>Trichoderma harzianum</i> that induces iron deficiency tolerance in garden pea ( <i>Pisum sativum</i> ssp. <i>hortense</i> )	Cell and Molecular Biology
94	Analysis of Eastern Diamondback Rattlesnake ( <i>Crotalus adamanteus</i> ) venom for anti-cancer activity in human breast cancer cell lines	Cell and Molecular Biology
96	Identification of Anti-Metastatic Compounds in Triple-Negative Breast Cancer	Cell and Molecular Biology
98	Developing Carbon Dot Nanoparticles Combined with Gemcitabine for Impacting Triple-Negative Breast Cancer Cells	Cell and Molecular Biology
100	Analysis of Fluorescent Microscopy Images to Better Understand Keratin's Effect on Protein Recycling Pathways in Human Embryonic Kidney Cells	Cell and Molecular Biology
102	Characterizing Nephrylin's Regulation of the PI3K Pathway in Triple Negative Breast Cancer	Cell and Molecular Biology
104	Discovering Gelatin's Effect on Cellular Growth and Autophagy in Human Embryonic Kidney Cells	Cell and Molecular Biology
106	Descriptive Analysis of Anthozoan Nervous System Using Fluorescence Microscopy	Cell and Molecular Biology
108	PAR-1 Activation Interferes with Normal Axon Development in <i>C. elegans</i> Through the Rho-kinase and PLC Pathways	Developmental Biology
110	The Cryptic Creatures: Unraveling Pine Snake Secrets using eDNA	Genetics
112	Subcloning and Fusion of a Crystallization Protein Gene from a pBN1Aa Vector to a Green Fluorescent gene Within a pEVO1 Vector in <i>E. coli</i> DH5α	Genetics
114	America's "Lost" Tea: Using genetics to unravel the evolutionary history and metabolic diversity of yaupon holly	Genetics
116	Characterizing Biodiversity of Foliar Endophytic Fungi in Sweet Birch ( <i>Betula lenta</i> ) in Western NC.	Genetics
118	Changes in Mortality, Heritability, and Genetic Diversity of <i>Daphnia magna</i> Exposed to Concentrated and Homeopathic <i>Kalmia latifolia</i> Distillates	Genetics
120	Time Course for Adult Onset Myotonic Dystrophy in <i>Drosophila melanogaster</i>	Genetics
122	Combinatorial effects of PUFAs and piscidins on the membrane permeability and antimicrobial activity in <i>Vibrio parahaemolyticus</i> and <i>Vibrio vulnificus</i>	Microbiology
124	Polyunsaturated fatty acids (PUFAs) amplify the killing effect of peptide antibiotics in <i>Aeromonas hydrophila</i>	Microbiology
126	Annual Temperature Variation Effects on <i>Vibrio</i> spp. Population in Oysters ( <i>Crassostrea virginica</i> ) from Georgia's Coast	Microbiology
128	Reducing Bacterial Load on Spinach via Physical and Chemical Methods	Microbiology
130	CareSuperb COVID-19 antigen self-test kit demonstrates superior sensitivity against both SARS-CoV-2 wild type and Omicron variants	Microbiology
132	Blue coloration in fungi: biochemistry, evolution, and possible functions	Mycology and Lichenology
134	Leaf Spots Affecting Native Plants of the Appalachians	Mycology and Lichenology
136	Identifying A Novel Fungus Using ITS DNA Sequencing	Mycology and Lichenology
138	A tale of two species: Investigating structure of <i>Packeria cymbalaria</i> and <i>Packeria heterophylla</i> (Asteraceae) using morphology data	Plant Collections and Herbaria
140	Digitizing the Fungi Collection at the Marshall University Herbarium	Plant Collections and Herbaria
142	The University of North Carolina at Pembroke Herbarium Digitization	Plant Collections and Herbaria
144	Floristic Survey of Lamar County, Mississippi	Plant Floristics
146	Analyzing Pollen Production, Reproductive Output, and Pitcher Morphology Variation to Monitor <i>Sarracenia purpurea</i> var. <i>montana</i> Populations in Southern Appalachia	Plant Floristics
148	Physiological Comparison of Pure American and Hybrid American-Chinese Chestnut Hybrids	Plant Physiology
150	Differences in sporophyte conducting cell anatomy between two moss species.	Plant Physiology
152	Long-term effects of repeated prescribed fire on longleaf pine growth and structure	Plant Physiology
154	Phylogeny and Evolution of Diapensiaceae Pollen Morphology	Plant Physiology
156	Using molecular data to establish the phylogenetic relationship of an unknown species of <i>Perezia</i> .	Plant Systematics
158	Genetic Analysis of Inherited Mid-Atlantic populations of <i>Astragalus distortus</i> (Fabaceae)	Plant Systematics
160	Exploring the impact of a science communication lesson on undergraduate biology students' ability to communicate about culturally controversial science topics	Scholarship of Teaching and Learning
162	Undergraduate research is associated with higher student MFT scores and graduation rates	Scholarship of Teaching and Learning
164	Incorporating the Four-Dimensional Ecology Education (4DEE) Framework into biology curriculum to address 21st century problems	Scholarship of Teaching and Learning
166	Inclusion of career-related topics into Department of Biology seminar courses benefits students	Scholarship of Teaching and Learning
168	The impact of primary literature-based, critical thinking activities on student attitudes in a graduate-level cell biology course	Scholarship of Teaching and Learning
170	Perception of and participation in programs to support the success of nontraditional transfer students in a STEM major	Scholarship of Teaching and Learning
172	Living Shorelines are the CURE: Inquiry Based Lab Exploring Shoreline Solutions for Sea Level Rise	Scholarship of Teaching and Learning
174	Using Three-Dimensional Technology to Enhance Learning	Scholarship of Teaching and Learning
176	How Bird-Friendly is Your Campus? A Conservation Course Project to Develop a Checklist to Assess How Well Campuses Support Birds	Scholarship of Teaching and Learning
178	Increasing Retention in Online Natural Science Courses by Implementing Self-Selected Flex Groups	Scholarship of Teaching and Learning
BB81	Enhancing Antimicrobial Efficacy and Biofilm Inhibition Using Nanomaterial-Based Coatings on Medical Devices	TriBeta
BB82	Translation and Transcription Start Site Enrichment Analysis: Investigation of the <i>Abi</i> protein Defective Genome	TriBeta
BB83	The Role of Adenovirus Protein E4 11k in P Body Protein Relocalization	TriBeta
BB84	Investigation of the ability of aryl hydrocarbon receptor activation to rescue LPS-induced cytotoxicity in small intestinal epithelial cells	TriBeta
BB85	Immunogenicity of Codon-Optimized Vaccines for Hepatitis C	TriBeta
BB86	Developing Small Molecule Inhibitors for Controlling <i>Candida albicans</i> Infections	TriBeta
BB87	Novel DNA-based Vaccines for Flaviviruses	TriBeta
BB88	Modification of Aliphatic Amino Acids with 2-Fluoro-5-nitrobenzoic acid and its Effect on Gram-positive Biofilm Inhibition	TriBeta
BB89	Characterization of Mutants and Mechanistic Insight into Biofilm Biosynthesis in <i>Streptococcus mutans</i>	TriBeta
BB90	Comparison of insulin pathway gene Pdk1 between <i>Drosophila melanogaster</i> and <i>Drosophila arizonae</i>	TriBeta
BB91	The HTLV-1 basic leucine zipper factor alters host cell metabolism	TriBeta
BB92	Extraction of Transcriptional Regulators for the Polyhydroxyalkanoate Depolymerase Gene from <i>Streptomyces nymphaeiformis</i>	TriBeta
BB93	The Effect of In ovo Nicotine Administration on Tbr2 Expression during Gray Matter Development in the Chicken Embryo	TriBeta
BB94	Effects of UV Radiation on MCF-7 Breast Cancer Cells	TriBeta
BB95	Effects of <i>Streptococcus salivarius</i> M18 probiotic supplement on the human oral microbiome	TriBeta
BB96	Examining the role of BRK1 in the embryonic development of Zebrafish ( <i>Danio rerio</i> )	TriBeta
BB97	Confirming the gene model of insulin-like peptide 1 (Iip1) in <i>D. rhopaloea</i> by comparing it to its homolog in <i>D. melanogaster</i>	TriBeta
BB98	The Effect of Long-term Intermittent Fasting on Spatial Memory in Rats	TriBeta
BB99	Momordica charantia: Testing for Antibiotic Properties	TriBeta
BB20	Combating Antibiotic Resistance: Antibiotic Properties of Lavender and Thyme	TriBeta
BB21	Utilizing Reverse Genetics to Explore SMAX1-Dependent Seed Germination in <i>Arabidopsis</i>	TriBeta
BB22	Antibiotic Properties of Cedarwood Oil	TriBeta
BB23	Biofilm Inhibition & Eradication with Novel Biofilm-Inhibiting Small Organic Molecules and Bacteriophage Combinations.	TriBeta
BB24	Mediterranean diet and the Gut-Brain Axis: Diet-induced links between gut microbial abundances and heart rate variability in Captive Female Cynomolgus Macaques ( <i>Macaca fascicularis</i> ).	TriBeta
BB25	Investigating how a mutation in <i>Fus1</i> alters protein interactions during cell fusion	TriBeta
BB26	Involvement of the NF-κappaB and CXCL10/CXCR3 Signaling Pathways in Triple Negative Breast Cancer Invasion	TriBeta
BB27	Isolating and Sequencing soil bacteria displaying zones of inhibition.	TriBeta
BB28	The Molecular Mysteries of <i>C. elegans</i> : Total Protein Isolation Techniques	TriBeta
BB29	Effect of Allidin on Proliferation and Viability of Human T-Cell Lymphocytes	TriBeta
BB30	Identification of Soil Microbiota Strains with Poly-3-hydroxybutyrate (PHB)-Degrading Capabilities	TriBeta



Friday Session 8:00 - 9:30 AM

POSTER #	Title	Topic
193	Oral Healthcare Barriers Among Dalton State College Students	Anatomy and Physiology
195	Parasites of the Brindled Madtom, <i>Noturus miurus</i> , from Western Tennessee: Do they explain their madness?	Animals: Entomology/Invertebrates/Parasitology
197	Does stream restoration influence the diet composition of Brindled Madtoms ( <i>Noturus miurus</i> )?	Ecology: Freshwater
199	Meiofauna Biodiversity in Ponds With Varying Levels of Exposure to Animal Waste	Animals: Entomology/Invertebrates/Parasitology
201	Two Invading Species Affect Biodiversity in Longleaf Pine Ecosystems	Animals: Entomology/Invertebrates/Parasitology
203	Comparing Arthropod Activity on Hanging Versus Ground-Level Chicken Carcasses in a Forest Environment	Animals: Entomology/Invertebrates/Parasitology
205	Effectiveness of External DNA Decontamination to Evaluate Plant Diets of Aphid	Animals: Entomology/Invertebrates/Parasitology
207	Effects of Albendazole on <i>C. elegans</i> Eggs	Animals: Entomology/Invertebrates/Parasitology
209	Analysis of bioluminescent blinking activity in a captive population of Split Fin Flashlight Fish ( <i>Anomalops katoptron</i> )	Animal: Behavior
211	Behavioral Plasticity in Sheet-Web Spiders	Animal: Behavior
213	Comparative effects of linalool and linalyl acetate on <i>Betta splendens</i> agonistic behaviors.	Animal: Behavior
215	Improving the Captive Diet of the Lesser Madagascar Hedgehog Tenrec ( <i>Echinops telfairi</i> ) through Gut Loading	Animal: Behavior
217	Variation in Social Organization Influences Fitness in Two Populations of <i>Octodon degu</i>	Animal: Behavior
219	Life History and Social Factors Influencing Social Network Structure in <i>Octodon degu</i>	Animal: Behavior
221	Exploring the Effects of Cannabidiol (CBD) Supplements on Activity Behavior in Shelter Canines ( <i>Canis lupus familiaris</i> )	Animal: Behavior
223	License to chill: Behavioral responses of mammals to extreme temperatures	Animal: Behavior
225	The Dawn Chorus in the Georgia Piedmont in Relation to Environmental Variables	Animal: Behavior
227	Feeder Visitation by a Wintering <i>Selasphorus</i> Hummingbird in Relation to Temperature and Day Length in Georgia	Animal: Behavior
229	Snakes are where you... don't find them	Animals: Herpetology
231	Naturalistic Enclosure Design Impact on Crested Gecko ( <i>Correlophus ciliatus</i> ) Behavior	Animals: Herpetology
233	The Impact of Habitat on Terrestrial Niche Partitioning Between Amphibians	Animals: Herpetology
235	Dispersion patterns and mortality rates associated with wildlife-vehicle collisions involving Eastern Newts ( <i>Notophthalmus viridescens</i> ) in Virginia's Cumberland Mountains	Animals: Herpetology
237	The Effects of Female Prebreeding Feeding Frequency on Egg and Hatching Morphometrics in <i>Lampropeltis</i> (Kingsnake) species.	Animals: Herpetology
239	Behavioral Comparisons Between <i>Hydrodynastes gigas</i> Supplied With Different Heating Sources	Animals: Herpetology
241	Abiotic factors influencing <i>Morella cerifera</i> seedling establishment in barrier island grassland swales	Ecology: Climate
243	Floral Phenology and Species Distributions in the Southern Appalachians	Ecology: Climate
245	The DRIVES Project, a network of long-term agricultural experiments to determine how Diverse Rotations Improve Valuable Ecosystem Services	Ecology: Climate
247	Exploring Ecological Symphonies: Unraveling Shifts in Phenophases of Trees vis-à-vis Changing Temperatures	Ecology: Climate
249	Evaluation of fish assemblages in Black Warrior and Cahaba river headwaters in Birmingham Alabama.	Ecology: Communities
251	Tornado effects on abiotic conditions and tree diversity in a Kentucky mesic hardwood forest	Ecology: Communities
253	Variations in the Microbiome of Drinking Water at Concord University	Ecology: Communities
255	Top-down and Bottom-up Forces in a Puma, Mule Deer, and Elk System	Ecology: Communities
257	Ashes to ashes: documenting the annual decline of a green ash dominated swamp in the NC piedmont since 2019	Ecology: Communities
259	Interspecific interactions between <i>Ammophila breviligulata</i> and <i>Spartina patens</i> along a stress gradient	Ecology: Communities
261	The Bird Community Using Large Trees Differs in Urban Versus Rural Forests	Ecology: Communities
263	Life History and Spatial Distribution of an Invasive Earthworm ( <i>Amyntas</i> ) Within West Liberty University's Campus Woods	Ecology: Communities
265	A bird's eye view on human disturbance	Ecology: Communities
267	Environmental Drivers of Seedling Distribution in a Northwoods Forest Landscape	Ecology: Communities
269	Hourly and Seasonal Patterns of Visitation and Sociality of Eastern Bluebirds at an Artificial Water Source	Ecology: Communities
271	Long-term Survivorship of Planted Species and Invasion Post-Restoration on Rocky Branch	Ecology: Communities
273	The Impact of Mercury Contamination on Avian Malaria Prevalence	Ecology: Conservation
275	Nesting Rock Preferences for Eastern Hellbender Conservation	Ecology: Conservation
277	Partners for Agricultural Innovation and Sustainability: Collaboration in West Alabama and East Mississippi in Support of Conservation and Agriculture.	Ecology: Conservation
279	Rare grassland plant surveys and seed collection in the Georgia Blue Ridge and Ridge and Valley Regions	Ecology: Conservation
281	The effect of Arbuscular mycorrhizal fungi on growth of <i>Arnoglossum floridanum</i> at varying soil nutrient concentrations	Ecology: Conservation
283	Correlation Between Habitat Preferences and Mass (g) of <i>Nerodia sipedon sipedon</i> and <i>Regina septemvittata</i>	Ecology: Conservation
285	Prey niche overlap of <i>JorÅ spiders</i> ( <i>Trichonephila clavata</i> ) and Spotted Orb Weavers ( <i>Neoscona crucifer</i> ).	Ecology: Conservation
287	The Impact of Different Types of Green Space on Emotional State	Ecology: Conservation
289	Dominant Seed Dispersal Modes of Invasive Plants in a Restored Urban Stream	Ecology: Conservation
291	Slope Dynamics on Bryophyte Frequency	Ecology: Ecosystems and Landscapes
293	Germination and plant growth of green bean seeds in the presence of Bisphenol B.	Ecology: Ecosystems and Landscapes
295	Traditional Ecological Knowledge of Virginia Barrier Islands	Ecology: Ecosystems and Landscapes
297	Mollusk and drill predator relationships in the Waccamaw Formation	Ecology: Ecosystems and Landscapes
299	Detecting Historic Tar Kilns using Aerial LIDAR Derived Digital Elevation Models at Blackwater Ecological Preserve, Zuni Virginia.	Ecology: Ecosystems and Landscapes
301	2023 Sound Data Analytics at Hob Caw Barony (Georgetown, South Carolina)	Ecology: Ecosystems and Landscapes
303	Spatial Mapping and Analysis of <i>Cambarus aff. dubius</i> in West Virginia with emphasis on collections in 2022-2023	Ecology: Freshwater
305	Effects of Hurricane Creek Water Quality on the Etowah River in Northeast Georgia	Ecology: Freshwater
307	Impact of Wastewater Contamination on the Overall Health of Crayfish in Rural Appalachian Streams	Ecology: Freshwater
309	Does Geological Location Influence Stream Water Quality?	Ecology: Freshwater
311	Do habitat changes downstream of small dams have consistent effects on the performance of <i>Nocomis micropogon</i> (River Chub) and <i>Notonotus rufileatus</i> (Redline Darter)?	Ecology: Freshwater
313	The Characterization of Water Chemistry in Two Mid-Order Creeks in the Allegheny Plateau and Upper Ohio River Valley: Assessments Using a Multi-Year Monitoring Effort	Ecology: Freshwater
315	An assessment of overall stream health (chemical and biological) and a comparison of macroinvertebrate communities between riffle and pool habitats in an urbanized and impaired mid-	Ecology: Freshwater
317	Determining the effect of estuarine water on seedling production in <i>Spartina alterniflora</i>	Ecology: Marine
319	Spatial analysis of <i>Lumbricus</i> spp. distribution in West Liberty University's campus woods	Ecology: Populations
321	Impact of Invasive Asian Jumping Worms on Southern Appalachian Forest Soils	Ecology: Populations
323	Characterizing the role of the Sphingosine 1-phosphate pathway in post-traumatic fibrosis	Cell and Molecular Biology
325	Vornostat on the Expression of TGF-ÅY and TGFs in Murine Subcutaneous Fibroblasts	Cell and Molecular Biology
327	Detecting LINC Complex and Nuclear Pore Complex Ndj1 Protein Interactions on Yeast Nuclear Membrane by Fluorescence Microscopy	Cell and Molecular Biology
329	Testing SSA4:ADE3 Reporters for MCS Screening	Cell and Molecular Biology
331	IBA metabolism in <i>Arabidopsis thaliana</i> mutants: the potential peroxisomal function of a ubiquitin-conjugating enzyme	Cell and Molecular Biology
333	Analysis of the glutathione reductase gene of a Tubificid worm living in the high-sulfide-concentration waters of Blount Springs, Blount County, AL	Cell and Molecular Biology
335	Antioxidants as a Therapeutic for San Filippo Syndrome	Cell and Molecular Biology
337	Pinpointing a Problematic Polyploid: Mapping Cogongrass Ploidy Throughout the Invaded Range	Genetics
339	How Collagen Mutant Genotypes Links to Body Morphology Phenotypes in <i>Caenorhabditis elegans</i>	Genetics
341	Disentangling the Role of the Second Messenger c-di-AMP in the Stress Response of <i>Staphylococcus aureus</i>	Microbiology
343	Isolating Antibiotics: Assessing the antibiotic potential of the External Microbiome of <i>Solenopsis invicta</i>	Microbiology
345	Assessing Biofilm Formation of <i>S. sanguinis</i> and Examining the Role of pH on Biofilm Formation	Microbiology
347	Identification of the antimicrobial activity of anthocyanins toward the plant pathogen <i>Xanthomonas campestris</i>	Microbiology
349	eDNA Analysis to Detect <i>Ophiomyces ophioidicola</i> in Waterways and Soil	Microbiology
351	Isolation and characterization of novel yeast strains from entomological and botanical samples from Weakley County: TN: USA.	Microbiology
353	The Impact of Caffeine on the Gut Microbiome ( <i>Bifidobacterium</i> and <i>Lactobacillus</i> )	Microbiology
355	Measuring the Effect of Temperature on Bacterial Abundance Across Stages of Decomposition	Microbiology
357	Determining the spatial distribution of vascular plants in Knox County, Tennessee using digitized herbarium specimens	Plant Collections and Herbaria
359	Safeguarding the Atlanta Botanical Garden's Conservation Collections	Plant Collections and Herbaria
361	Salvaging the LFCC herbarium: lessons learned and horizons expanded for the Extended Specimen concept.	Plant Collections and Herbaria
363	Measured and Modeled Light Interception in Winter for <i>Yucca</i> Plants with Implications for their Ecophysiological Functioning	Plant Physiology
365	Tissue Culture Applied to the Eastern Hemlock Tree ( <i>Tsuga canadensis</i> )	Plant Physiology
367	Discovering Diversity: A Morphological Investigation of the <i>Packera aurea</i> Species Complex	Plant Physiology
BBB31	An Analysis of Antibiotic Resistance Levels of Enterobacteriaceae Found in Manure of Cattle Populations Along the Holston Watershed	TriBeta
BBB32	Effect of the Insecticide, Fipronil, on Oviposition Choice for Female <i>Culex</i> Mosquitoes	TriBeta
BBB33	Monarch Butterfly Feeding Preferences on Kentucky Wildflowers	TriBeta
BBB34	Evaluating the Effectiveness of Oviposition Traps for Mosquito Control in Temperate Ecosystems	TriBeta
BBB35	Seasonal Tick Species Distribution within the Northern Kentucky Region	TriBeta
BBB36	Does repeated sampling by students harm the macroinvertebrate community of a headwater stream?	TriBeta
BBB37	A Survey of the <i>Cantharellus</i> Species in Western Virginia	TriBeta
BBB38	Assessment of Small Mammal Community Structure Based on Analysis of Owl Pellets: A Comparison of Pacific Northwestern and Southeastern U.S. Barn Owls ( <i>Tyto alba</i> )	TriBeta
BBB39	Species richness of moths in public parks surrounded by urban, suburban, and rural environments in the vicinity of Nashville, Tennessee	TriBeta
BBB40	Contrasting effects of early restoration practices and season on soil enzyme activity and nitrogen dynamics	TriBeta
BBB41	An Investigation on Zn tolerance in a Phyllite Population of a Rare Plant Species, <i>Pedemelum piedmontanum</i> (Fabaceae)	TriBeta
BBB42	Measuring potential effects of heterotrophs on diel cell cycling of toxic Microcystis	TriBeta
BBB43	Weevil Infestation of Oak Acorns Varies Among Sites during Drought	TriBeta
BBB44	Human infrastructure decreases predator activity, releasing herbivores from a landscape of fear	TriBeta
BBB45	Identification of <i>Pseudomonas aeruginosa</i> from Public Drinking Sources in Kentucky	TriBeta
BBB46	The Impact of <i>Pseudomonas aeruginosa</i> Contamination in the Food Industry	TriBeta
BBB47	The impact of feral hogs on the forest understorey in the North Carolina piedmont	TriBeta
BBB48	Drone-based Thermal Imaging Techniques and Tools for Feral Swine Population Management in the NC Piedmont	TriBeta
BBB49	Detection of Bacterial Pathogens in Tarballs Collected from the Alabama Gulf Coast	TriBeta

Friday Session 3:30 - 5:00 PM [109]

POSTER #	Title	Topic
192	Evaluating tree frog habitat use in a montane wetland environment using tree tube shelters.	Animal: Behavior
194	Comparative Behavioral Analysis of <i>Bombus impatiens</i> and <i>Apis mellifera</i>	Animal: Behavior
196	Effects of Postnatal Hypothyroidism on Maternal Compulsivity and Anxiety	Animal: Behavior
198	Time in Breeding Season Affects the Reproduction and Nestling Size of Eastern Bluebirds	Animal: Behavior
200	Behavioral and Physiological Responses of <i>Cyprinella venusta</i> to Acoustic Signals: Implications for the Functional Significance of Acoustic Signaling in the Genus <i>Cyprinella</i>	Animal: Behavior
202	Investigating the Role of Grasses in the Formation and Expulsion of Domestic Cat ( <i>Felis catus</i> L.) Hairballs	Animal: Behavior
204	The Influence of Weather Conditions on Incubation in Prothonotary Warblers ( <i>Protonotaria citrea</i> )	Animal: Behavior
206	Testing DNA Recovery in Sticky Trap Insects Treated with Histo-Clear	Animals: Entomology/Invertebrates/Parasitology
208	Impact of the Invasive Plant Species <i>Microstegium vimineum</i> on Burrowing Crayfish <i>Cambarus monongalensis</i>	Animals: Entomology/Invertebrates/Parasitology
210	Impact of American-Chinese Chestnut Hybridization on Soil Arthropod Abundance and Diversity and Entomopathogenic Nematode Presence	Animals: Entomology/Invertebrates/Parasitology
212	Assessing the Immediate and Long-Term Effects of Neonicotinoid Pesticide Treatments on Hemlock Soil Arthropod Communities	Animals: Entomology/Invertebrates/Parasitology
214	Inhibiting future forest insect invasions using I-Tree Pest Predictor	Animals: Entomology/Invertebrates/Parasitology
216	First dedicated survey of the Upper Guyandotte River for <i>Cambarus veteranus</i> (Guyandotte River Crayfish)	Animals: Entomology/Invertebrates/Parasitology
218	Ecological Impact of American Chestnut Hybridization on Insect Communities	Animals: Entomology/Invertebrates/Parasitology
220	The Creation of a Body Condition Index (BCI) and its Benefits for <i>Heterodon nasicus</i>	Animals: Herpetology
222	Determination of Thermal Husbandry Efficacy for <i>Hydrodynastes gigas</i> : Growth Rates	Animals: Herpetology
224	Determining dietary niche overlap of two woodland salamanders using stable isotopes in Great Smoky Mountains National Park	Animals: Herpetology
226	Environmental covariates associated with Plains Hognose Snake ( <i>Heterodon nasicus</i> ) surface activity in a prairie habitat	Animals: Herpetology
228	Effects of hydrologic variability on the development of <i>Lithobates sphenoccephalus</i>	Animals: Herpetology
230	How does a global climate cycle affect the reproductive output of a neotropical migratory bird?	Ecology: Climate
232	Characterizing water fluxes in a bottomland hardwood forest and discerning the primary drivers influencing these fluxes	Ecology: Climate
234	Patterns of diazotroph diversity in nodulating plants of the Southeastern USA	Ecology: Communities
236	A Comparison of Plant Communities on Adjacent Northwest- and Southeast-Facing Slopes on Grandfather Mountain in Western North Carolina	Ecology: Communities
238	"Weekly Floral Survey of Collins Gulf in Savage Gulf State Park (Spring 2023): A Learning Process	Ecology: Communities
240	Novel Technique for Determining Burrow Dwelling Spiders Community Structure	Ecology: Communities
242	Promoting Microbial-Based Methods in Invasive Plant Management	Ecology: Communities
244	Interactions Between Fungal Endophytes and Pathogens Isolated from the Invasive Plant Kudzu ( <i>Pueraria montana</i> var. <i>lobata</i> )	Ecology: Communities
246	An Assessment of an Aquatic Turtle Community in Urban Wetlands	Ecology: Communities
248	Using stable isotope analysis to determine the basal carbon and trophic position of organisms in the St. Johns River, Florida	Ecology: Communities
250	Biodiversity from Freshwater Lentic Ecosystems Revealed with eDNA	Ecology: Communities
252	Investigating the Influence of Grass-Root Interactions on Shrub Encroachment in a Coastal Grassland	Ecology: Communities
254	Does human activity impact provisioning and nesting success of Osprey at Reelfoot Lake?	Ecology: Conservation
256	Investigating Environmental Influences on Bird-window Strikes for Resident and Migratory Bird Species on an Urban-integrated University Campus	Ecology: Conservation
258	Does adding a plastic film to windows reduce the likelihood of fatal impacts by birds?	Ecology: Conservation
260	Climate change and threat assessments for rare, threatened, and endangered plant species of Chesapeake & Ohio Canal National Historical Park	Ecology: Conservation
262	Tree seedling success at stream restoration planting sites in Rockingham County, Virginia	Ecology: Conservation
264	Participating in a Special Topics eDNA Biology Course: Reporting on the Detection of Rare Mussels from the Little Tennessee River of North Carolina	Ecology: Conservation
266	Micro and Macro Plastics in Carolina Chickadee Nests	Ecology: Conservation
268	Ghosts in Glass: Ghost Crabs as Judges of Glass Sand for Coastal Restoration	Ecology: Conservation
270	Does Shelter Type Affect Riparian Tree Growth and Survival?	Ecology: Conservation
272	Paving the Way for Effective Plant Conservation	Ecology: Conservation
274	A test of the efficacy of protective devices for use in direct seeding of longleaf pine	Ecology: Conservation
276	Higher percentages of tree canopy cover correlate with more bird diversity in urban parks in Nashville, Tennessee	Ecology: Conservation
278	Nashville Public High School Green Spaces: A Case of Equality and Equity	Ecology: Conservation
280	Fire Mediated Forest Structure Influences the Dispersal Dynamics of a Wind Dispersed Bunchgrass	Ecology: Conservation
282	1-Spy SAV: Exploring the Role of Remote Sensing in SAV Conservation in Currituck Sound, NC	Ecology: Conservation
284	WhoaC™s: who: Which birds are more likely to be admitted to an avian rehabilitation center in north-central Alabama?	Ecology: Conservation
286	Increasing Accessibility to Biological Collections Through Digitization	Ecology: Conservation
288	Conducting Bat and Small Mammal Surveys at the Cahaba Biodiversity Center in Central Alabama	Ecology: Conservation
290	Multi-Categorical Analysis of Immature Bird Rehabilitation in the Florida Keys to Assess Ideal Care.	Ecology: Conservation
292	Does human foot traffic changes the soundscape in an urban nature preserve	Ecology: Conservation
294	Monitoring the Endangered Atlantic Pigtoe Mussel ( <i>Fusconia Masoni</i> ) using eDNA and PCR	Conservation Genetics
296	Patterns of Gene Flow and Genetic Structure in Spider Beetles	Conservation Genetics
298	Development of an eDNA Assay for Surveillance of the Endangered Carolina Redhorse ( <i>Moxostoma</i> sp. <i>Carolina</i> ) Fish.	Conservation Genetics
300	Preferred Habitat for Coastal Shrub Establishment on a Virginia Barrier Island	Ecology: Ecosystems and Landscapes
302	Throughfall nitrate as an indicator of dry deposition.	Ecology: Ecosystems and Landscapes
304	Assessment of Landscape Changes and Stream Habitat Alteration at the Hurricane Creek Research Site in Northeast Georgia	Ecology: Ecosystems and Landscapes
306	Soil temperature differences and their relation to revegetation of ASGM sites in the Western Amazon Rainforest	Ecology: Ecosystems and Landscapes
308	Ecological restoration of Pike Pond and Terry Top, New River Gorge National Park and Preserve, West Virginia	Ecology: Ecosystems and Landscapes
310	An on campus, collaborative restoration of landfill and degraded suburban ecosystems	Ecology: Ecosystems and Landscapes
312	Allochthonous leaf litter from invasive exotic plants and its effects macroinvertebrate communities in an impaired mid-order Appalachian creek	Ecology: Freshwater
314	Reflections on Water Monitoring Strategies in the Irwin Creek Watershed of West Charlotte	Ecology: Freshwater
316	Using Machine Learning for Quantifying the Spread and Identification of Aquatic Species in a Waterbody in Northeast Louisiana	Ecology: Freshwater
318	Global Scale Effects of Pollution on Parasites and Freshwater Fish Health	Ecology: Freshwater
320	The Intersection Between Citizen Science and Academia in Water Conservation Efforts	Ecology: Freshwater
322	Exploring Acetylcholinesterase Expression and Activity in <i>Crasostrea virginica</i> along the Georgia Coast	Ecology: Marine
324	Identification of sea turtle species utilizing tissues recovered from predated nest at a novel nesting location	Ecology: Marine
326	Combining molecular analyses with morphology to identify zoantharians located at Toco, Trinidad, southernmost region of the Caribbean Sea	Ecology: Marine
328	Using DNA barcoding techniques to identify shallow-water zoanthellate zoantharians (Cnidaria: Hexacorallia) along the north-eastern coast of Toco, Trinidad	Ecology: Marine
330	Genetic analysis of a pantropical sea urchin at the southeastern edge of a Caribbean population	Ecology: Marine
332	Establishment of a non-invasive method for the measurement of water-borne corticosterone in conservation efforts of imperiled species of newts	Ecology: Physiological
334	Carry-Over Effects of Climate on Prothonotary Warbler ( <i>Protonotaria citrea</i> ) Feather Quality	Ecology: Physiological
336	Influence of phylogeny, climate, and soil properties on evolution of autumn leaf color in North American oaks	Ecology: Physiological
338	The "red island" effect: Why do some plants synthesize anthocyanins around foliar pathogens?	Ecology: Physiological
340	Exploring Salamander Community Diversity in GA Streams Through DNA barcoding	Ecology: Populations
342	Variation in the scale of spatial dispersion in <i>Asarum arifolium</i> in Autauga county Alabama: Preliminary investigations and future goals	Ecology: Populations
344	Spatial and Population Dynamics of Invasive Pheretimid Earthworms in West Liberty University's Campus Woods	Ecology: Populations
346	An Introduction to Population studies of Bats in West Virginia State Parks, Forests, and National Parks	Ecology: Populations
348	The impact of locomotion on shape of the Atlas Vertebra in Rodents	Evolution
350	Mechanisms of extreme survival: Uncovering how tardigrades can tolerate extreme radiation	Cell and Molecular Biology
352	Assessing the Roles of MYC in Endoderm Differentiation	Cell and Molecular Biology
354	The Impact of Noncanonical MYC Target Gene, EGR1, on Proliferation of Colorectal Cancer Cells with CTNNB1 Mutation	Cell and Molecular Biology
356	Antibacterial effects <i>Liriodendron tulipifera</i> leaf and bark extracts	Cell and Molecular Biology
358	Assessing the Roles of EGR1 in Endoderm Differentiation	Cell and Molecular Biology
360	Establishing a Biochemical System for the Purification and ATPase activity of GST-Dbp5	Cell and Molecular Biology
362	Analyzing Mex67 Interaction with the SSA4 Transcript for Selective Export	Cell and Molecular Biology
364	Testing SSA4:ADE3 Reporters and MCS Screening	Cell and Molecular Biology
366	The Effects of Curcumin and Carvacrol on <i>Pseudomonas aeruginosa</i> PA01 Biofilm Formation	Microbiology
368	Mouthful of Mysteries: Characterizing the Oral Microbiome through Oxford Nanopore Next Generation Sequencing.	Microbiology
370	The Role of the Second Messenger Ap4A in the Fitness of <i>Staphylococcus aureus</i> During Respiratory Stress	Microbiology
372	Detection of Last-Resort Antibiotic-Resistant Bacteria in Sewage Influent	Microbiology
374	Diagnostic performance of CareSuperb COVID-19 antigen self-test kit using nasopharyngeal samples from patients	Microbiology
476	Bacterial contamination of environmental surfaces in the intensive care unit of a veterinary clinic	Microbiology
378	<i>Bordetella pertussis</i> Cloning and Conjugation	Microbiology
380	Comparison of the Different Types of Microorganisms Found in Commercial Yogurt	Microbiology
382	Identification of candidate biomarkers from lead-exposed biofilms, quantification of biofilm biomass and lead-associated genes.	Microbiology
384	Evaluating Gastrointestinal Tract (GIT) Microbiomes Sensitivity and Muscle Metabolism in the Presence of Various Concentrations of Oxalic Acid	Microbiology
386	Using CRISPR interference for the Knockdown of Essential Genes in <i>Staphylococcus aureus</i>	Microbiology
388	Investigating Alternatives: Microbial Solutions for Pest Management in Organic Farming Practices	Microbiology
390	Genetic and Physical Characterization of an Unknown Bacteriophage from a Commercially-Available Sample of <i>Bacillus thuringiensis</i>	Microbiology
392	Analysis of <i>Escherichia coli</i> presence in Rocky River and Cox Creek of Anderson, SC	Microbiology
394	Phylogenetic analyses of <i>Perezia</i> using chloroplast genetic markers to identify a potential new species	Genetics
396	Transgenerational maternal effects on cold adaptation in the <i>Drosophila melanogaster</i>	Genetics
398	Tree Biodiversity in Urban and Nonurban Forests	Plant Physiology
400	Heavy Metal Impacts on Alligator Weed	Plant Physiology
402	The Ecology and Genetic Diversity of <i>Buckleya distichophylla</i> (Santalaceae)	Plant Physiology
404	Slope Dynamics on Bryophyte Biodiversity	Plant Physiology
406	Morphological Differences in the Schweinitzâ€™s Sunflower ( <i>Helianthus schweinitzii</i> ) in North and South Carolina	Plant Systematics
408	A tale of two â€œspeciesâ€: Investigating evolutionary relationships of two arctic/alpine <i>Packera</i> (Asteraceae) taxa using phylogenomics.	Plant Systematics
410	Genetic and phenotypic diversity within and among isolated populations of the <i>Erigeron strigosus</i> (Asteraceae) species complex in North Carolina and Arkansas	Plant Systematics