# 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	WELCOME AND PLENARY 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	Room 17					
7:00 am – 5:00 pm	7:00 am - 8:00 amASB Past President's Breakfast Meeting7:00 am - 5:00 pmPowerPoint Preview Check - Lightning Talks					
8:00 am – 9:30 am	ASB POSTER PRESENTATION MORNING SESSION 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	TALK SESSION 1GENETICS AND CELL & MOLECULAR BIOLOGYPLANT SYSTEMATICSCONSERVATION GENETICSECOLOGY: ECOSYSTEMS AND LANDSCAPESECOLOGY: PHYSIOLOGICALECOLOGY: 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 ApplicationsHosted 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	TALK SESSION 2         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	ASB POSTER PRESENTATION AFTERNOON SESSION 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	Transportation to the Social revolving in front of the Marriott hotel 11th Street.	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	ASB POSTER PRESENTATION MORNING SESSION 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

	TALK SESSION 3	
	GENETICS AND CELL & MOLECULAR BIOLOGY B	Room 6
	PLANT COLLECTIONS AND HERBARIA	Room 5
	ANIMALS: ENTOMOLOGY B	Room 4
10:15 am – 11:45 am	ANIMALS: BEHAVIOR A	Room 12
	ECOLOGY: CONSERVATION B	Room 13
	ECOLOGY: COMMUNITIES	Room 14
	ECOLOGY: AQUATIC B	Room 15
	WORKSHOP: Social Field Safety : Being more inclusive and	Room 3
10:00 am – 12:00 pm	understanding risks for marginalized and historically excluded	
	individuals who professionally work outdoors	
12.00	SHC SE Chapter Lunch and Business Meeting	Room 17
12:00 pm - 1:30 pm	ESA Lunch and Business Meeting	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
	TALK SESSION 4	
	GENETICS AND CELL & MOLECULAR BIOLOGY B	Room 6
	ANIMALS: ENTOMOLOGY C	Room 5
1:30 pm – 2:45 pm	ANIMALS: BEHAVIOR B	Room 12
	ECOLOGY: CONSERVATION C	Room 13
	ECOLOGY: POPULATIONS	Room 14
	SCHOLARSHIP OF TEACHING AND LEARNING	Room 15
1:30 pm - 3:00 pm	SYMPOSIUM: Memoirs in Aquatic Biology: A Tribute to Dr. Mark	Room 2
1.50 pm 5.00 pm	Schorr—Teacher, Mentor, and Scientist	
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	ASB POSTER PRESENTATION AFTERNOON SESSION 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	ASB AWARDS BANQUET - Ticketed Event	Room EFG

## Saturday, March 23

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

L	EXHIBIT HALL		MEETING ROOM 6	MEETING ROOM 5	MEETING ROOM 4	MEETING ROOM 12	MEETING ROOM 13	MEETING ROOM 14	MEETING ROOM 15		MEETING ROOM 11	MEETING ROOM 2	MEETING ROOM 3
	MORNING POSTER SESSION (Odd #s)	8:00 - 9:30								8:00-8:15 8:15-8:30 8:30-8:45 8:45-9:30 9:00-9:15 9:15-9:30			
										9:00 - 9:15 9:15 - 9:30			
	Lightning Talks (8385,8478,9351,8806,8848)	9:30 - 10:00								9:30 - 9:45 9:45 - 10:00			
		10:00 - 10:15	BREAK	BREAK	SYMPOSIUM: Southeast Chapter of the Ecological Society of America – Climate Change Ecology in Southeastern Systems	BREAK	BREAK	BREAK	BREAK	10:00 - 10:15		SYMPOSIUM: Fire History and Fire Effects in Southeastern U.S. Ecosystems—Implications for Management	
			GENETICS AND CELL & MOLECULAR BIOLOGY A An Alternative to Western Bioting: Using In-Gel foresterious to State the Astronomy Enthropy and	PLANT SYSTEMATICS	10-10:10 Introduction	CONSERVATION GENETICS Analyzing Cional and Population Structure in the Federally Endangened Sagithule Accidants Using a High-throughput	ECOLOGY: ECOSYSTEMS & LANDSCAPES	ECOLOGY: PHYSIOLOGICAL	ECOLOGY: AQUATIC A Relationships between microhabitatecale land cover maximuments and the abundance of words debits with			10-10:15: Pine Woodland Fire Dynamics Since Industrialization (cs. 1570s) at the New River Gorge, West Virginia 10-15-10:30: Should the forests of the future look like the	
	-	10:15 - 10:30	Kerstin Biomaterials in Human Embryonic Kötney 293 Cells Using Force Sensitive Domains to Produce Synthetic Receptors in Drosophila	Systematics of the Viole painuts (Violeceae) Species Complex Using Norphological and Genetic Data Untangling Interspecific Relationships Between Aquatic Taxa in the Moss Genus Fitzielens	Southeastern Endemic	Endangered Sagittaria fazciculata Using a High-throughput Sequencing Dataset Conservation Genomics in the Endangered Whorled Sumbower Melactura verdicilitata (Asteraceae)	Meta-analyses of the Ecological Effects of Urban Form: Sprawl Versus Compact Residential Development Shrub Expansion Enriches Soil and Groundwater on an	Effects of Lithium and Cobalt on Algal Symbiont Density in Excliptuale disphana anemones Dune Grass Physiology in a Warming Climate	measurements and the abundance of woody debris with fish abundance and diversity in streams in the South Carolina Piedmont Comparison of microplantic abundance in environmental	10:15 - 10:30 10:30 - 10:45		10:15-10:30: Should the forests of the future look like the forests of the past in the Sauratown Mountains of N.C. 10:30-10:45: Let er Rig: High Severity Fire and the Tree Ring Record in Southeastern Forests	WORKSHOP: The Only Constant is Change: Programmatic Workflows to Access, Prepare, and
	-	10:50 - 10:45	Receptors in Drosophila Design and Application of pDA Treatment Method for Polylacide Fibers to Enhance Cell Separation of MCF-7	Aquatic Taxa in the Moss Genus Fissidens A Review of the Rhododendron viscosum Group:	Endangered Species: A Study with the Red-cockaded 10:50-11:10 Effect of Climate Change on the Winter	Sunfower Helianthux verficiliatus (Asteraceae) Development of Molecular Resources for Genetic Diversity Studies in Sanguinaria canadensis	Uninhabiled Barrier Island Greening the Edge: Investigating Riparian Buffer Restorations in a Pastoral Setting and their Effects on Soil Carbon and Microbial Community Composition.	Effects of Warming on Four Moss Species from the Southern Acceleration Mounthing	Eamples depending on Eample collection and preparation to bridgess Latitude and community robustness primarily predict invasion probability of three widespread, invasive plants in Ministeppi takes.	10:30 - 10:45	Honey I Blew Up the Molecules: 3D Printing as a Multi-faceted and Multi- disciplinary Pedagogical Practice WORKSHOP	Record in Southeastern Forests 10:45-11:00: Breeding Bird Response to Fire and Other Distantinguese is Endean Mandatand Exercise	Work with NEON Data (Crescent rounds)
	ORAL PRESENTATION SESSIONS / SYMPOSIA / WORKSHOPS	11:00 - 11:15	Cells Exploring Caspolargin Linnasking in Candida suris to Enhance Macrophage-Mediated Antikingal Immunity	Taxonomic Challenges. Whole Chioroplast Genome Sequencing Improves Support in the Osccoloba (Polygonaceae) Phylogery and Provides Taxonomic and Biogeographic Insights	Activity of Bats in the Cumberland Gap Region 11:10-11:30 Spatial Modeling of Ecological and	Studies in Sanguinavia canadensis Population Genetics Study of Rhododendron minus var. chapmanii	Soil Carbon and Microbial Community Composition. Factors Impacting Greenhouse Gas (GHG) Fluxes in Conservation Reserve Program (CRP) Hardwood Forests	Southern Appalachian Mountains Patterns and Potential Mechanisms of Phenotypic Changes in Urban Small Mammals	Mississipi taken Mississipi take. Endemism, Ecology and Evolutionary History of the Flarida pondweed (Potamogatan Broidanus)	11:00 - 11:15	WORKSHOP	Disturbances in Eastern Hardwood Forests 11:00-11:15: Can't See the Savanna for the Trees: Describing the Lost Oak Savannas of the Black Belt Ecoregion	
	-			Support in the Coccessia (Polygonaceae) Phylogeny and Provides Taxonomic and Biogeographic Insights Who Authored the First Flora of North America?	Southeastern United States								
	-	11:15 - 11:30	Cell Proliferation Response to miRNA 342-3- expression in Triple Negative Breast Cancer		11:10-11:20 BREAK	Conservation Genomics in the Eastern Hemiock: Genomes, Metabolomes, and Infrastructure-building for Reforestation.	Native Vegetation Community Development and Invasive Species Management in Small-scale Coastal Living Shorelines Within a 10-year Chronosequence.	Do Sexually Dimorphic Traits Explain Light-sexoclated Spatial Segregation of the Sexues in the Plant, Marchaotia Inflexa?	<sup>d</sup> Effects of tree shelters on tree seeding microclimate and seeding chlorophyll production: two-year results	11:15 - 11:30		11:15-11:30: The Effects of Fire Frequency on Mixed-oak Forest Plant Communities of Southeastern Ohio	
		11:30 - 11:45		The Seymerian Chronicles	Plant Genetic Diversity and Belowground Microbial Associations to Enhance Plant Stress Tolerance	Defining Populations and Predicting Future Suitable Niche Space in the Federally Endangered Leafy Prairie-clover (Dales foliose; Fabaceae)				11:30 - 11:45		11: 30-11:35: BREAK	
THURSDAY					12:00-12:20 Crop Rotational Diversity as a Climate Adaptation Strategy 12:20-12:40 Identifying and Protecting Climatic Refugia					11:45-12:00		11:35-12:00: Discussion	
	LUNCH	11:45-1:30			in Florida at Multiple Spatial Scales 12:40-1:00 A Right of Passage: Refugial Corridors and								
					weate crossings in the Appalements					12:15 - 12:30 12:30 - 12:45 12:45 - 1:00 1:00 - 1:15 1:15:1:30			
		1:30 - 1:45	MICROBIOLOGY Heat Evolution of the Bacterial Microbiome Found in Neat Evolved Cladocopium Cfacro	PLANT FLORISTICS	ANIMALS: ENTOMOLOGY A		ECOLOGY: CONSERVATION A Investigating the prevalence and effects of	ECOLOGY: COMMUNITIES A Examining How Exotic Species Alter Flower Availability in Invaded Plant Communities	SCHOLARSHIP OF TEACHING &LEARNING A Diving into the Applicant Pool: A Finst-year Professor's Anecdotal Insight for Novigating the Faculty Application Process				
		1:30 - 1:45	Heat Evolved Cladocopium Cfacro Polyumaturated Fatty Acros (PDFAs) Classe Charges in Growth, Membrane Permeability, Biofilm Formation, Modility, and Phospholipid Structures in the Human	Assigning c-values to Tennessev's Flora. Morphometric Analysis of the Packers dubla (Spreng.) Species Complex	Buzzing Havens: Plant-Insect Interactions in Pollinator Gardens and Bee Hotels How Prescribed Burns Affect Soil Arthropods: Duration and	Interaction study of the developmental effects of sodium flooride and sodium selecate on Xenopus Javid embryos Measuring spatial and temporal variation in species composition of ephenerari pond amphibian assemblages	Shift in Freshwater Biodiversity and its Impact on	Availability in Invaded Plant Communities Environmental DNA Metabarcoding as a New Tool to Datest Material Policyborchise Interactions	Arecdotal insight for Navigating the Faculty Application Process Inquiry-Based Formative Assessments Improve Preprotessional Learning of the Musculoskeletal System	1:30 - 1:45			
	ORAL PRESENTATION SESSIONS /	2:00 - 2:15	Pathoese Astronouse hotoobile Antibiotic Properties of Cedarwood Oil	(spreng.) species Compex Nodeling Subnational Conservation Status Ranks for Tennessee Vascular Plants	Bugs by the Bayl: Diversity Patterns of Coastal Alabama's Stream Insocts	using metabarcoding The preliminary developmental effects of Cannabidiol (CBD) on embryos of Xenopus Jaevis	Envelopmental Mitgation Cost for Hydropower Plants in Changing Climate Ex situ Conservation of Imperiled Plant Species in the Southeastern United States	Unter Hastonical Polanator-plant Interactions. Weekly Floral Survey of Colline Gulf in Savage Gulf State Park during Spring 2022: A Learning Process	Denystitying the Black Box of Sequencing: Incorporating Minion Sequencing of Chicroplast Genomes in the	2:00 - 2:15			WORKSHOP: Stories from the Field: Best practices for Field Experiences (Crescent Rounds
	SYMPOSIA / WORKSHOPS	2:15 - 2:30	Daily Probiotic Consumption of Sweet Polatoes Shifts Abundances of Key Gut Microbiots Connected to Gut Health	Windthrow and Salvage Logging Alters Herbaceous Species Composition but not Shannon Diversity in Short-term Study of Georgia Longiest Pine Woodlands	The Body Size, Body Composition, and Cellular Immune Response of Macquitose are Shaped by the Individual and Interactive Effects of Warmer Temperatures and Aging	Dynamics of Skin-based Gene Expression in Red-elded Garter Snakes (Tharmophic sistalic parietalic): Sex and Seasonal influences	Southeastern Plants Regional Species of Greatest Conservation Need	Habitat Use and Morphology of Wintering Spamows in the North Carolina Piedmont.		2:15 - 2:30		WORKSHOP: Hitting the Ground Running with Your Graduate School ApplicationsHosted by ASB's	
		2:30 - 2:45	Creating Synthetic Microbiomes to Understand Ecological Interactions Involved in the Snake Fungal Disease System	A Floristic Inventory of the Walls of Jericho Forever W6d Tract, Jackson County, Alabama	Impact of Chondrosema passail on the Cold Tolerance of Homed Passalus Beetles	Members of the Board: An Update on Long-term Study of Coverboards at Georgia Gwinnett College	I Spy SAV: Exploring the Role of Remote Sensing in SAV Concervation in Currituck Sound, NC	Soil Bacterial Elvereity increases with Spring Spheneral Divertity in Soil Bacterial Communities Souctured by Slope Type and Sasano ou White Oak Mountain in Tennessee Characterization of Food Waste in Gruiny Enling Hall at Georgia Genimat College: A Chitical Step Toward	Parceptone or Context Balance Mesigion and a volume and Higher Amount Abhait Undergradust Biology Students than Christian Biology Students Use of Tasan Based Lawring and Alternative Grading Systems in Biology Courses to Parante Learning Engagement, Engloyment Skills, and Increased Epily in Ba Classroom.	2:30 - 2:45		Human Diversity Committee (Crescent roundsCan get loudconsider placement)	
		2:45 - 3:00	Presence and Identification of Native Entemopathogenic Fungi and their Pathogenicity against Millipede Species in Coastal Georais Emodepaide on L4 C. elegans	Preliminary Analysis of a Vascular Flora of Booker T. Washington State Park in Hamilton County, <u>Terceasee</u> . Herbivore-induced Defenses Impact Floral Colonization and Pullinator Behavior	Impact of Different Insect Diets on Costa Rican Zebra Knee Tarambda (Aphonopelma zeemanei) Growth	Marbled Salamander Population Dynamics in Catawba College's Ecological Preserve		Characterization of Food Waste in Grizzly Dining Hall at Georgia Gwinnett College: A Critical Step Toward Sustainable Food Waste Management		2:45 - 3:00 3:00 - 3:15			
	Lightning Talks (8398,8554,8951,9287,8692)	3:00 - 3:30	Endorgenor on Cr. C. Brigani	Colonization and Pollinator Behavior						\$15,330			WORKSHOP: Our redesigned and revamped Eastern Biologist journal-eBio (Crescent rounds)
	AFTERNOON POSTER SESSION (Even #s/TriBeta)	3:30 -5:00								3:30-3:45 3:45-4:00 4:00-4:15 4:15-4:30 4:30-4:45			
										4:45 - 5:00			
	MORNING POSTER SESSION (Odd #s/TriBeta)	8:00 - 9:30								8:00 - 8:15 8:15 - 8:30 8:30 - 8:45 8:45 - 9:00 9:00 - 9:15			
	#s/InBeta)									9:15 - 9:50		SYMDOSILIM- Consecution of Southern	
	Lightning Talks (9107,9157,9200,8759,8562)	9:30 - 10:00								9:30 - 9:45 9:45 - 10:00		Appalachian Salamanders 9:30-9:40 Introduction	
		10:00 - 10:15	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	10:00 - 10:15		\$:40-10:00 Recovering Tennessee Helbenders	
			GENETICS AND CELL & MOLECULAR BIOLOGY B	PLANT COLLECTIONS AND HERBARIA	ANIMALS: ENTOMOLOGY B	ANIMALS: BEHAVIOR A	ECOLOGY: CONSERVATION B	ECOLOGY: COMMUNITIES B	ECOLOGY: AQUATIC B		TRIBETA SESSION 1	10:00-10:20 Sexual Dimorphic Effects of a Keystone Predator on Prey Communities	
		10:15 - 10:30	Evidence for Phosphate-dependent Control of Symbions Cell Division in the Model Asemone Exalcate is dischare	The State of Harbaria in Termessee	Cryptosporidium Infection in Cattle based on Water Source, Age,		Spatio-temporal sampling of environmental DNA with methodorogica can improve biodiversity assessments	Land Use Impacts on Benthic Macroinvertebrate Diversity in Lawson's Fock Greek (Scartanburg, SC)	Lineage Directed Microsukaryole Metabarcoding of Eustigmatophytes and Cryptemonas	10:15 - 10:30	Prevalence of Antibiotic Resistant Bacteria in the Holston Watershed: A Seasonal Analysis of Variability	18:20-10:40 Known Knowns, Known Unknowns, and Unknown Unknowns: Macroparasites and their Possible Threat to	
	-	10:30 - 10:45	Cell Develon in the Model Alexandre Exception aduptate Determining the Relative Consistency of 2P Proteins in the IPVL of Ov(posited Chicken Eggs	Quantifying the National Park Herbarium Specimens at the University of Tennessee at Chattanooga Herbarium (UCHT)	and Gender Parasite Hideouts: Choosing Careful Nest Materials in Dee Hotels for Preserving Native Dess	Benavior Context-dependent Costs and Benefits to Cowbird Parasitism in Prothonotary Warbiers	of fabes in hydropower-impacted systems Texting a Split-root Propagation Method to Clone American Ginaerg (Paner quirquefoliur L.)	Long-term Survivorship and Species Invasion Post- Restoration on Rocky Branch	Aliopatric Speciation Affecting the Former Crayfish Subgenus Jugicambarus Color Morphs	10:30 - 10:45	Variability Distance and Speed of Movement of Raccoons (Procycon Iotor) Relative to Sex and Age in Soctimation Ternasce	Appalachian Salamandera 10:40-10:50 BREAK	WORKSHOP: Social Field Safety : Being more inclusive and understanding risks for
	ORAL PRESENTATION SESSIONS /	10:45 - 11:00	Exploring Differential Expression of Zona Pellucida Proteins in the Germinal Disc Region of Flamingo Eggs: Does a Conservation of Relative Protein Abundance of 2P Proteins around the GG Exist is Avian Seccior?	A Vascular Flora of Bark Camp Barrens WMA in Coffee County, Tennessee	The Fitness Consequences of Woldachia Infection in the Parasitoid Wasp Trichogramma kaykal.	Cheaper by the Dozen? Effects of Brood Size on Provisioning Dynamics and Parenbothspring Conflict in a Wild Sceptifi	Freshwater Mussels Prefer a Diet of Stramenopiles and Fungi over Bacteria	Edge Effects and Species Spillover Vary Across Different Agricultural Contexts	The Effects of Abandoned Mine Drainage on Breakdown Rates and Benthic Microbial Composition in an Appalachian Stream	10:45 - 11:00	A Comparison of Antibiotic Resistance Levels in Feral, Semi-Feral, and Domesticated Horses	10:50-11:10 Lassons From Ten Years of Research on Mountaintop Removal Mining and Stream Salamanders	inclusive and understanding risks for marginalized and historically excluded individuals who professionally work outdoors. (Crescent rounds)
	SYMPOSIA / WORKSHOPS	11:00 - 11:15	2P Proteins around the GD Exist is Avian Species? Production of a Novel Mouse Model with Dystanctional NF-xB Signaling in Bone Marrow-derived Macrophages	Preliminary Vascular Plant Flora of Cloudland Canyon	Wid Ramp Vielitars: Assessing the Arthropod Community of an Emblematic Appalachian Species Using eDNA	Bringing the Effects of Artificial Illumination on Mammal Diel Activity Patterns to Light	How state Regulations can Limit the Sale and Spread of Invasive Plant Species: An Example from Florida	Community Assembly Dynamics of BioBins from an Intermittent Stream in West Tennessee	Apparaces a stream investigating the influence of Spatial-Temporal Scale on Thelescie testudinum Communities Throughout the Caribbean Basin.	11:00 - 11:15	Real-life Zombies: Cordyceps in our Backyard	11:10-11:30 What Determines the Downstream Range Limits of Stream Salamanders?	
		11:15 - 11:30	Synthesis of Carbon Dot Nanoparticles with Gencitabine and its Affect on Triple-Negative Breast Cancer Cells	What's in Our Herbarium? Bionomia and Wikidata Facilitate a Case Study on the Bothnical Caneer of Richard W. Simmers, Jr.	The Effects of Urbanization on Disease Prevalence in Managed Honey Bee Hives in Hamilton County, Tennessee	The Evolution of Arthropod Reaction to the Presence of Smake	Fire Mediated Forest Structure Influences the Dispersal Dynamics of a Bunchgrass	Comparison of Gut Microbial Communities from American Pikas and Yellow-bellied Marmots in the La Sal Nountains, Utah	Canobian Basin.	11:15 - 11:30	Interdependence of the Components of the Nociceptive Withdrawal Response in Intact Rate	11:30-11:50 Green Salamanders (Aneides aeneus ) Alter Rock Crevice Use in the Face of Anthropogenic Disturbance	
		11:30 - 11:45		Common Ground of Fellow Botanists: Lena Artz (1891- 1976) and Francis W. Hunnewell, II (1880-1964) in the Shenandoah Valley.						11:30 - 11:45		11:50-12:10 Developing a Predicitve Geospatial Habitat Model for a Rare Species of Salamandar in Tennessee: A Case Study for the Green Salamandar (Areides Aeneus)	
										11:45-12:00 12:00 - 12:15 12:15 - 12:30 12:30 - 12:45 12:45 - 1:00		12:10-12:20 DISCUSSION	
FRIDAY	LUNCH	11:45-1:30			SYMPOSIUM: Women in Biology Inspired by Women in Biology	1				1:00 - 1:15			
					1-1:10 Introduction by Dr. Jennifer Boyd		1	L		1:15-1:30			
			GENETICS AND CELL & MOLECULAR BIOLOGY C The Conserved Infrank Element NCE Functions as a Developmental Infrank Element NCE Functions	ANIMALS: ENTOMOLOGY C	1:10-1:30 Exploring Eco-evolutionary Causes and Consequences of Plant Species Rarity	ANIMALS: BEHAVIOR B	ECOLOGY: CONSERVATION C	ECOLOGY: POPULATIONS	SCHOLARSHIP OF TEACHING & LEARNING B		TRIBETA SESSION 2		
		1:30 - 1:45	The Conserved Intenic Element NCE Functions as a Developmental stage Specific Enhancer that Upregulates CDI Expression at the Intermediate Stage of Thymocyte Development and Ensures Errorfree Commitment to the Helper Lineage	Allometry and Sexual Dimorphism of Sensory Structures in Cambanus carinirostris	1:30-1:50 Rotifers Show Us that Males are Not Necessary, Except When They Are	Comparative Studies on Mammalian Social Organization Must Rely on High Quality Data and Account for Intraspecific Variation	Beneficial Rouse of Coal Ash rather than Disposal as Waste	Introductions of Chukars (Alectoric chukar) in the United States	Collaboration Between Secondary and College Educators to Meet State Education Standards	1:30 - 1:45	Exploring Cooperangin Unitaciong in Canada suris to Enhance Macrophage-Mediated Anditungal Immunity	SYMPOSIUM: Memoirs in Aquatic Biology: A Tribute to Dr. Mark Schorr—Teacher, Mentor, and Scientist	WORKSHOP: Fulbright Opportunities for Biologists
	-	1:45 - 2:00	Thrombin's Impact on Motoneurons Through the Rho- kinase Pathway		1:50-2:10 Breadth First Search Algorithm to Identify Connected Reserve Systems	New Can Acoustics and Soundscapes Inform Our Understanding of Biology and Conservation	Comparison of Orb-weaving Spider Diversity, Geographic Distribution, and Phenology in Eastern TN and Northweat GA	Spatial and Abiotic Effects of Urbanization on Small Mammal Communities	Reflection and Synthesis: A Senior Capatone Seminar for Biology and Related Majors		Patential Role of Adenovirus E4 11k Protein loward the Inhibition of Interferon-beta Expression During an Infection	1:30-1:40 Introduction	Denita Hadziabdic-Guerry Fulbright Scholar to Ghana, Fulbright U.S. Scholar Alumni
	ORAL PRESENTATION SESSIONS / SYMPOSIA / WORKSHOPS	2:00 - 2:15	Regulation of G12/13 Signaling by Distinct Post- translational Mechanisms	Low Temperature Tolerance of Kudzu Bug, Megacopta cribraria	2:10-2:20 BREAK	Social Patterns of Polar Bear Family Groups in Late Summer on the Beaufort Sea	Mortality of Eastern Bluebirds Following a Severe Writer Starm Long-term Soil Fungal Responses to Proactive Forest	Above and Below Ground Community Structures in a Longieal Pine Restoration Site: Dominant Herbaceous Species and Their Soil Bacterial Microbiomes	Development of a Shared Definition of Inclusive Teaching in STEM: A First Step Towards Implementation and Evaluation of Inclusive and Effective Teaching. A Culturally Responsive Framework to Engage Atrican	2:00 - 2:15	indole-3-carbinol Can Rescue Lipopolysaccharide- induced Cytotaxicity in Small Intestinal Epithelial Cells: Implications for Necrotxing Enterocolitis	1:40-2:00 A GIS for the Urban Stream Projects of Chattanooga, TN 2:00-2:20 A Literature and Survey Assessment of Lision Wildle	Ambasa ador Aasociate Professor of Entomology and Plant Pathology, University of Tennasae-Knosville Mac H. Alford
		2:15 - 2:30	Species Delimitation in the Loggerhead Kingbird (Tyrannus caudifacciatus) Species Complex	Host Sharing of Ecloparasilic Lice in Flamingos at the Memphis Zoo Syrphidae of the Southern Appalachiane: Diversity,	2:29-2:40 Actualistic Taphonomy Experiments as Analogs for Microbial Ecosystems of Early Earth 2:40-3:00 Women Shaping Urban Ecology Through	Antennae Size Evolution in Crayfish Assessing Depression, Anxiety, and Stress Levels in	Longtern Soll Fungal Responses to Proactive Forest Management for Spongy Moth Prevention in Daniel Boore National Forest	Host Selection in Harper's Dodder, a Rare Parasitic Plant	A Culturally Responsive Framework to Engage African American Undergraduate Students in Sustainability and Environmental Sciences Give a Hoot An Oad Case Study in the Power of Clitzen Follows Aufor Date An United United Study Concerning	2:15 - 2:30	The Effects of the Pesticide Aceptate on PG19 Mouse Amelanotic Melanoma Cells	Detector Dogs in Turtle Conservation 2:20-2:40 Unveiling the Hidden World: Freshwater Mainforms	Mac H. Alford Fulbright Scholar to Sarbia and Zambia Professor and Curateo of the Herbariam, University of Southern Mississippi
		2:30 - 2:45	YOU Can Help Cure Blood Cancers & Diseases	Syrphidae of the Southern Appalachians: Diversity, Distribution, and Foraging Behaviors	Research and Mentorship 3:00-3:20 Understanding Regulatory Mechanisms of	Assessing Depression, Anxiety, and Stress Levels in Biology, Other STEM, and Business Majors at GGC Exercises Intelligations of Caudel Variabral Eurice in			Give a Hoot: An Owl Case Study in the Power of Clitzen Science Audio Data for Natural History Research and Teaching	2:30 - 2:45		Biodiversity in the Southeastern United States	Lytton J. Musselman Fulbright Scholar to Sudan, Jordan, and the West Bank Professor and Eminent Scholar, Old Dominion University
		2:45 - 3:00			Eukaryotic Gene Expression by Ubiquitin-Protessome System (UPS) 3-20-3-40 Usion Mathematical Modelins to Understand	Functional Implications of Caudal Vertabral Fusion in Mossesure (Pythonomorpha: Mossesuroidea)				2:45 - 3:00		Stories	Jay F. Bolin Student Fulbricht U.S. Student Program to Namibia
	Lightning Talks (8890,8568,8821,8594,9197)	3:00 - 3:30			3:22-3:40 Using samematical wooking to Understand Biodiversity in Animal Behavior 3:40-3:55 DISCUSSION					3:00 - 3:30		3:00-3:10 Discussion	Associate Professor of Biology, Dean of Natural Sciences, Catawba College
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	AFTERNOON POSTER SESSION (Even #s)	3:30 -5:00								3:30-5:00			
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### Thursday Session 8:00 - 9:30 AM

	Thursday Session 8:00 - 9:30 AM	
POSTER #		Торіс
	The Effect of Music Therapy on the Concentration of College Students The Effect of the Visual Sensory Response on Memory and Retention	Anatomy and Physiology Anatomy and Physiology
	The Effect of the visual sensory response on Memory and Retention The Effect of Physical Sensory Response on Memory and Retention	Anatomy and Physiology Anatomy and Physiology
	A gene encoding a nicotinic activitcholine receptor subunit, act-6, is required for ethanol and nicotine state dependent learning in Caenorhabditis elegans	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 mississippiensis	Animal: Behavior
	Impact of Parasitic Blowflies and Habitat Quality on Nestling Songbird Growth	Animal: Behavior
	Prevalence of antibodies to Trypanosoma cruzi in black bears from California	Animals: Entomology/Invertebrates/Parasitology
	Soil Moisture Alters Belowground Nematode Interactions	Animals: Entomology/Invertebrates/Parasitology
	Life Underground: Exploring Behavior of Curculio sayi Larva in Soil Shelter Preference of Cambarus robustus, a Surrogate for The Federally Threatened Cambarus callainus	Animals: Entomology/Invertebrates/Parasitology
	Sincer reference of cambards tobustus, a surfaget for the redenary measured cambards cambard	Animals: Entomology/Invertebrates/Parasitology Animals: Entomology/Invertebrates/Parasitology
	Tom lawn to oasis: sub-urban pollinator conservation through native landscape design	Animals: Entomology/Invertebrates/Parasitology
	Seasonal Variation in Infection Intensity of Desmognathus amphileucus larvae by the trematode Metagonimoides oregonensis	Animals: Herpetology
29	Monitoring Restoration Efforts for Eastern Hellbender (Cryptobranchus alleganiensis) Habitats	Animals: Herpetology
		Animals: Herpetology
	Effects of temporal variation in habitat moisture on the success of anuran behavioral strategies	Animals: Herpetology
	Influence of Incubation Techniques and Parentage on Boldness in Hydrodynastes gigas Increasing the Accuracy of Tree-Ring Data Processing to Improve Models for Predicting Future Climate	Animals: Herpetology
	Increasing the Accuracy of Tree-king Data Processing to Improve Models for Predicting Future Climate Analysis of the accuracy of Student-collected CURE data in an outdoor setting	Ecology: Climate Ecology: Climate
	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
	Tree mortality and replacement during secondary succession in a North Carolina Piedmont forest	Ecology: Communities
49	A genetic diversity assessment of Allium tricoccum populations in Great Smoky Mountains National Park using Next Generation SNP discovery	Conservation Genetics
	Development of Microsatellite Markers for the Yellow Lady Slipper Orchid (Cypripedium Parviflorum).	Conservation Genetics
	Genetic diversity of the Timber Rattlesnake (Crotalus horridus) in Western North Carolina Anthropogenic Disturbances and their effect on Ghost Crab (Ocypode quadrata) Burrow Architecture	Conservation Genetics Ecology: Conservation
	Antimopogene Dischartes and their effect on other care (corpore quarkar) purities and the corpore quarkar) purities and the effect of the corpore quarkar) purities and the corpore quarkar purities a	Ecology: Conservation
	survey of Disjunct Red Spruce (Picea rubens) Stands in the Rich Mountain and Alarka Laurel Basins, North Carolina	Ecology: Conservation
	Thriving on the Threshold: Royal Catchfly (Silene regia) 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
	Evaluating the success of a dune restoration on Tybee Island, Georgia: monitoring sand movement and plant community dynamics	Ecology: Conservation
	Differences in soil communities at longleaf pine restoration sites	Ecology: Conservation
	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 Heavy Metal Analysis on Freshwater Turtle Species: Examining the Effects of Industry in Dalton, Georgia.	Ecology: Ecosystems and Landscapes Ecology: Ecosystems and Landscapes
	The and the state of the state	Ecology: Ecosystems and Landscapes
		Ecology: Ecosystems and Landscapes
	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
		Ecology: Freshwater
	Benthic macroinvertebrate survey of the Conasauga River	Ecology: Freshwater
85		Ecology: Freshwater
	Assessing Fish Condition in Lawson's Fork Creek Watershed: Does Urbanization Impact the Condition of Three Fishes? Interbasin transfer of Etheostoma longimanum into the Roanoke River drainage	Ecology: Freshwater
	merusam dansre or chreastana nogimanum moʻne Nanoke Kver damage Epiphytic diatom production on the seagrass (Thalasia testudinum) in onrthem Gulf of Mexico	Ecology: Freshwater Ecology: Marine
	Comparing Sea Turtle Presence and Bycatch Events across Pre-Nesting and Nesting Seasons in Panama City, Florida	Ecology: Marine
		Ecology: Marine
	Enhancing Antimicrobial Efficacy and Biofilm Inhibition Using MXene Nanomaterial-Based Coatings on Medical Devices	Cell and Molecular Biology
	Predicting ovarian cancer using comorbidities and demographics as risk factors	Cell and Molecular Biology
	Elucidating determinants at the Gα13 N-terminus for binding to the βγ dimer.	Cell and Molecular Biology
	Invertebrate substitutions of a conserved region in Gα13 reveal determinants of SRF signaling and RhoGEF binding Introducing Immunofluorescence Microscopy of Tetrahymena in Cell Biology Lab	Cell and Molecular Biology
	moduling immunonosenee microscopy or retransmena in cen protogy tab RNAseq reveals evidence for phosphate-dependent control of symbiotic cell division in the model anemone Exaiptasia diaphana	Cell and Molecular Biology Cell and Molecular Biology
	Understanding the Overexpression of TAF2 and TAF13 in Eukaryotic cells	Cell and Molecular Biology
111	Assessing proteins interactions of a potential chloroplast spliceosome	Cell and Molecular Biology
	Comparative effects of all-trans and 4-hydroxy retinoic acid on early Danio rerio development	Developmental Biology
	Unraveling the Microbial Diversity of Ecosystems under theinfluence of Environmental Pollution	Genetics
	Genetic Diversity of Passerines in Metro Atlanta Secrets of the Swamp: Uncovering the genetic diversity of a federally threatened plant species, swamp pink (Helonias bullata)	Genetics
	Secrets of the swamp: Uncovering the genetic oversity of a rederaily threatened plant species, swamp pink (reionias builata) PVr Modulation and its Relation to DMI. Muscle Wasting in Drosophila PVr Modulation and its Relation to DMI.	Genetics Genetics
	The indicated and its Relation to the indicate wasting in Disophila Development of microsatellite markers for Huperzia lucidual the Shiny Firmoss.	Genetics
		Genetics
127	Role of Dinucleotide Signaling Molecule in Staphyloccocus aureus Pathogenesis	Microbiology
	Effects of D- and L-amino acid derivatives on biofilm inhibition	Microbiology
		Microbiology
	Microbiota associated with meiofaunal nemerteans reveals evidence of phylosymbiosis builbibliot of Stanklangerup enidemailie floifing Liene Bacterial Superstants and Hachel Extract.	Microbiology
	Inhibition of Staphylococcus epidermidis Biofilm Using Bacterial Supernatants and Herbal Extracts Identification of Antimicrobial Producing Bacteria from Soil Collected in Hampstead, NC	Microbiology Microbiology
		Microbiology
	The root of the problem: examination of nursery bed fungal communities provides insight into white oak seedling health and reforestation	Mycology and Lichenology
143		Mycology and Lichenology
		Mycology and Lichenology
147 149	The Bishop Museum and University of Hawaii Expedition to Kauai (1930-1931) Cataloguing and Digitizing Specimens of the Violet S. Phillips Herbarium	Plant Collections and Herbaria
149	Cataloguing and Digitizing Specimens of the Violet S. Phillips Herbarium The 14 Day Excursion of the Bishop Museum and University of Hawaii to the Big Island of Hawaii	Plant Collections and Herbaria Plant Collections and Herbaria
	The up by Excusion of the bishop with semination university of nawari to the big Island in makari 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
	Vola species found in Pine Mountain State Resort Park, Kentucky	Plant Floristics
157	The Vascular Flora of Thompson Creek, Chesterfield County, SC	Plant Floristics
	The Effect of a High Glucose Diet and Artificial Food Coloring on Dopaminergic Neurons in Nematodes	Genetics
	The Role of puf-8 in Reproductive Organ Tumor Formation in Caenorhabditis elegans	Genetics
163	The Role of SIR-2.2 in Lifespan and Longevity in Caenorhabditis elegans Characterization of Avone Revalvane and Rongevith is Characterization of Avone Revalvane and Rongevith of Avone Revalva	Genetics Genetics
	Characterization of Axon Breakage and Regrowth in Caenorhabditis elegans β-Spectrin Mutants The Role of Paraquat on α-Synuclein Aggregate Formation in a Nematode Parkinson's Disease Model	Genetics Genetics
167	The Role of Paraquation asymptotic and a second and a se	Genetics
	The Lifect of Carlenie of Cearing and Weinby in Ceeronabulus ergans 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 Caenorhabditis elegans Brood Size	Developmental Biology
		Plant Systematics
	Implementation of a Multi-Year Pre-Collegiate Biomedical, Engineering, Environmental, and Sustainability Science Research Program Implementation of a nDMD Program to Monitor the Endengend Laured Date (Chronemus cauled)	Scholarship of Teaching and Learning
	Implementation of an eDNA Program to Monitor the Endangered Laurel Dace (Chrosomus saylori) Molecular identification and microplastic accumulation in Asian clams (Corbicula fluminea) along the Tennessee River	Ecology: Conservation Ecology: Freshwater
		Ecology: Propulations
189		Ecology: Freshwater
		Animals: Herpetology

#### Thursday Session 3:30 - 5:00 PM

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		Thursday Session 3:30 - 5:00 PM	
	TER #	Title	Торіс
2		Does Social Organization, Litter Size, Sexual Dimorphism, and Phylogeny Influence Multiple Paternity in Mammals? Sex Differences in Head Scanning Behavior in Long-Evans Rats in the Cue-Mismatch Task	Animal: Behavior Animal: Behavior
6		Sex Service and the second sec	Animal: Behavior
8		The Effect of Human Constructed Pathways on Carabid Beetle Movements	Animal: Behavior
1		Lycosidae Abundance and Diversity along an Anthropogenic Gradient	Animals: Entomology/Invertebrates/Parasitology
1		Alpha Gal Risk Factor Assessment of Ticks in Southwest Virginia Prevalence of wom parasites in Ind tack millipledes	Animals: Entomology/Invertebrates/Parasitology Animals: Entomology/Invertebrates/Parasitology
1		Comparison of Infection Prevalence and Intensity by the Trematode Metagonimoides oregonensis Between Two Species of Plethodontid Salamander	Animals: Herpetology
1		Stream Salamander (genus Desmognathus) Distributions Along Southern Appalachian Headwater Streams	Animals: Herpetology
2		Effects of elevation on morphological traits in a vulnerable salamander: Plethodon welleri (Weller's salamander) Invasion of the Squirrel Treefrogs and Other Grand Speculations	Animals: Herpetology Animals: Herpetology
2		What, if anything, is the amplifian microbiome?	Animals: Herpetology
2		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
2		Estimating the Carbon Sequestration of Cane Creek Mountains Natural Area Using GIS Co2 Emissions of Differing Faming Practices	Ecology: Climate Ecology: Climate
3		Correlations between Climate and Growth in Pine Species from the Blackwater Ecological Preserve, Isle of Wight Virginia	Ecology: Climate
3		It's a sticky situation: abundance and identity of arthropods trapped on tarflower (Bejaria racemosa) inflorescences	Ecology: Communities
3		Shrub species differ in their ability to create fertility islands in Florida rosemary scrub Using stable isotopes to examine dietary niche space of three coexisting Plethodon salamanders in North Carolina	Ecology: Ecosystems and Landscapes Ecology: Communities
4	0	ong state souces to examine usery increased on the cooksing revision and and the control of anomal white another anomal white anomal whi	Ecology: Communities
4		Unraveling the impact of salinity and burial on Morella cerifera growth in a changing barrier island landscape	Ecology: Communities
4		The use of a modified small stem assay for the evaluation of blight resistance in chestruit seedings Conservation Stars In Our Own Backyard	Conservation Genetics Conservation Genetics
4		Conservation States in Con Own Deckyand Monitoring the Endangered Cape Fear Shiner (Notropis Mekistocholas) presence in the Cape Fear River Basin using environmental DNA	Conservation Genetics
5		American Kestrels in Agricultural Landscapes of the Lower Mississippi Alluvial Valley: Nest Box Occupancy, Reproductive Success, and Pest Control Services	Ecology: Conservation
5		Low-tech seed enhancement technology could improve germination and establishment of longleaf pine understory perennial forbs. Analysis of Native Venus Flytrap's Fungal Associations	Ecology: Conservation Ecology: Conservation
5		Analyzing Reproductive Potential in Natural Marshes for Spartina alternifiora in Coastal Georgia Salt Marshes	Ecology: Conservation
5	8	Understanding how Apis mellifera influence pollinator-microbe interactions	Ecology: Conservation
6		Using Science Sprints to teach research skills: How is biodiversity affected by urban development? Constraints and Mechanisms of Virginia Barrier Island Migration in Response to Sea Level Rise	Ecology: Ecosystems and Landscapes Ecology: Ecosystems and Landscapes
6		Considence and reconstructions of regime source source response to care before the Branching Out: An Evaluation of Short-term Coarse Woody Debris Decomposition in the Southern Appalachians	Ecology: Ecosystems and Landscapes
6	i6	Quantifying plant functional diversity and composition between coastal dune communities	Ecology: Ecosystems and Landscapes
6		Documenting the Fire History of Pilot Mountain State Park Clinch Biver Erechnater Muscal Dilatav Preferences	Ecology: Ecosystems and Landscapes
7		Clinch River Freshwater Mussel Dietary Preferences To eradicate or to manage exotic watercress in our campus stream: a benthic macroinvertebrate study addresses this dilemma	Ecology: Freshwater Ecology: Freshwater
7	4	Sweep-net vs. kick-net: comparing the effectiveness of two sampling methods in assessing benthic macroinvertebrates	Ecology: Freshwater
7		A Survey of Aerial and Aquatic Arthropod Diversity Between Reference and Degraded Fluvial Wetlands in the Little Tennessee River Floodplain Concerned The Memoheria Hunderland Ledenational Concerned The Concerned	Ecology: Freshwater
7		Assessing Atmospheric, Hydrological, and Biological Connections of Microplastics in Southern Appalachian Headwater Streams Evaluation of DNA extraction methods to examine freshwater mussel microbiomer from four species of freshwater mussel	Ecology: Freshwater Ecology: Freshwater
8	2	Antioxidant properties and biofuel potential of colonial green algae.	Ecology: Freshwater
8		Investigations with NEON: Variability of macroinvertebrates versus Urban and Rural Temperature dynamics in Streams (INVURTS) Investigations in the Steam of Unwane Dynamics on Eachern Of Unabledre	Ecology: Freshwater
8		Investigating the Effect of Human Disturbance on Eastern Bluebirds Deer Herbivory and Woody Vegetation Effects on Smooth Cone/lower (Echnacea laevigata) Growth, Size, and Population	Ecology: Populations Ecology: Populations
9	10	Horseshoe Crab Spawning on Cumberland Island National Seashore, Georgia	Ecology: Populations
9		Host regulation controls the colonization efficiency of Trichoderma harzianum that induces iron deficiency tolerance in garden pea (Pisum sativum ssp. hortense)	Cell and Molecular Biology
9		Analysis of Eastern Diamondback Rattlesnake (Crotalus adamanteus) venom for anti-cancer activity in human breast cancer cell lines Identification of Anti-Metastatic Compounds in Triple-Negative Breast Cancer	Cell and Molecular Biology Cell and Molecular Biology
9	18	Developing Carbon Dot Nanoparticles Combined with Gemcitabine for Impacting Triple-Negative Breast Cancer Cells	Cell and Molecular Biology
		Analysis of Fluorescent Microscopy Images to Better Understand Keratin's Effect on Protein Recycling Pathways in Human Embryonic Kidney Cells	Cell and Molecular Biology
10		Characterizing Neprilysin's Regulation of the PI3K Pathway in Triple Negative Breast Cancer Discovering Gelatin's Effect on Cellular Growth and Autophagy in Human Embryonic Kidney Cells	Cell and Molecular Biology Cell and Molecular Biology
10	06	Descriptive Analysis of Anthozoan Nervous System Using Fluorescence Microscopy	Cell and Molecular Biology
10		PAR-1 Activation Interferes with Normal Axon Development in C. elegans Through the Rho-kinase and PLC Pathways	Developmental Biology
11		The Cryptic Creatures: Unraveling Pine Snake Secrets using eDNA Subcloning and Pusion of a Crystallization Protein Gene from a gBNLAa Vector to a Green Fluorescent gene Within a pEVOL Vector in E. coli DH5x	Genetics Genetics
11	14	America's "Lost" Tea: Using genetics to unravel the evolutionary history and metabolic diversity of yaupon holly	Genetics
11		Characterizing Biodiversity of Foliar Endophytic Fungi in Sweet Birch (Betula lenta) in Western NC.	Genetics
	20	Changes in Mortality, Heart Rate, and Gene Response in Daphnia magna Exposed to Concentrated and Homeopathic Kalmia latifolia Distillates Time Course for Adult Onset Myotonic Dystrophy in Drosophila Melanogaster	Genetics Genetics
12			
12	22	Combinatorial effects of PUFAs and piscidins on the membrane permeability and antimicrobial activity in Vibrio parahaemolyticus and Vibrio vulnificus	Microbiology
12 12	22 24	Polyunsaturated fatty acids (PUFAs) amplify the killing effect of peptide antibiotics in Aeromonas hydrophila	Microbiology Microbiology
12 12 12 12	22 24 26 28	Polyunsaturated fatty acids (PUFAs) amplify the killing effect of peptide antibiotics in Aeromonas hydrophila Annual Temperature Variation Effects on Vibrio spp. Population in Oysters (Crassostrea virginica) from Georgia's Coast Reducing Bacteria Load on Spinach via Physical and Chemical Methods	Microbiology Microbiology Microbiology Microbiology
12 12 12 12 12	22 24 26 28 30	Polyunsaturated fatty acids (PUFAs) amplify the killing effect of peptide antibiotics in Aeromonas hydrophila Annual Temperature Variation Effects on Vibrio spp. Population in Oysters (Crassostrea virginica) from Georgia's Coast Reducing Bacterial Load on Spinach via Physical and Chemical Methods CareSuperb COVID-19 antigen self-test kit demonstrates superior sensitivity against both SARS-CoV-2 wild type and Omicron variants	Microbiology Microbiology Microbiology Microbiology Microbiology
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12 12 12 13 13 13 13 13 13	22 24 26 28 30 32 34 36 38	Polyunsaturated fatty acids (PUFAs) amplify the killing effect of peptide antibiotics in Aeromonas hydrophila Annual Temperature Variation Effects on Vibrio spp. Population in Oysters (Crassostrea virginica) from Georgia's Coast Reducing Bacteria Load on Spinach via Physical and Chemical Methods CareSuperb COVID-19 antigen self-test kit demonstrates superior sensitivity against both SARS-COV-2 wild type and Omicron variants Blue coloration in fingl: Biochemistry, evolution, and possible functions Leaf Spots Affecting Native Plants of the Appalachians Identifying A Novel Fungus Using ITS DNA Sequencing A tale of two species: Investigating structure of Acekera cymbalaria and Packera heterophylla (Asteraceae) using morphology data	Microbiology Microbiology Microbiology Microbiology Microbiology Mycobogy and Lichenology Mycobogy and Lichenology Mycobogy and Lichenology Mycobogy and Hichenology Mycobogy and Hichenology
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#### Friday Session 8:00 - 9:30 AM

DOCTED #	Friday Session 8:00 - 9:30 AM	
POSTER # 193	Title Oral Healthcare Barriers Among Dalton State College Students	Topic Anatomy and Physiology
	or an instruction of the Brindled Madrom, Noturus miurus, from Western Tennessee: Do they explain their madness?	Animals: Entomology/Invertebrates/Parasitology
	Does stream restoration influence the diet composition of Brindled Madtoms (Noturus miurus)?	Ecology: Freshwater
199 201	Meiofauna Biodiversity in Ponds With Varying Levels of Exposure to Animal Waste Two Invading Species Affect Biodiversity in Longleaf Pine Ecosystems	Animals: Entomology/Invertebrates/Parasitology Animals: Entomology/Invertebrates/Parasitology
201	Two mwaning species and choose share to down share the mean species and the species of the speci	Animals: Entomology/Invertebrates/Parasitology Animals: Entomology/Invertebrates/Parasitology
205	Effectiveness of External DNA Decontamination to Evaluate Plant Diets of Aphid	Animals: Entomology/Invertebrates/Parasitology
207 209	Effects of Albendazole on C. elegans Eggs	Animals: Entomology/Invertebrates/Parasitology Animal: Behavior
209	Analysis of bioluminescent blinking activity in a captive population of Split Fin Flashlight Fish (Anomalops katoptron) Behavioral Plasticity in Sheet-Web Spiders	Animal: Behavior Animal: Behavior
213	Comparative effects of linalool and linalyl acetate on Betta splendens agonistic behaviors.	Animal: Behavior
215	Improving the Captive Diet of the Lesser Madagascar Hedgehog Tenrec (Echinops telfairi) through Gut Loading	Animal: Behavior
217 219	Variation in Social Organization Influences Fitness in Two Populations of Octodon degu Life History and Social Factors Influencing Social Network Structure in Octodon degus	Animal: Behavior Animal: Behavior
221	Exploring the Effects of Canabidiol (ED) Supplements on Activity Behavior in Shelter Canines (Canis lupis familiaris)	Animal: Behavior
223	License to chill: Behavioral responses of mammals to extreme temperatures	Animal: Behavior
225 227	The Dawn Chorus in the Georgia Piedmont in Relation to Environmental Variables Feeder Visitation by a Wintering Selasphorus Hummingbird in Relation to Temperature and Day Length in Georgia	Animal: Behavior Animal: Behavior
229	recer visitation's avineting setaspinots naminingen in neuron o rempetative and by rengin neuropa	Animals: Herpetology
231	Naturalistic Enclosure Design impact on Crested Gecko (Correlophus ciliatus) Behavior	Animals: Herpetology
233 235	The Impact of Habitat on Terrestrial Niche Partitioning Between Amphibians Dispersion patterns and mortality rates associated with wildlife-vehicle collisions involving Eastern Newts (Notophthalmus viridescens) in Virginiaâ€ <sup>ms</sup> Cumberland Mountains	Animals: Herpetology Animals: Herpetology
	Dispersion patterns and industanty rates associated with whome vertice consoling informations involving Lastern revers (industrianty industering in regimerate is compensated with whome vertice consoling informations in consoling in the second seco	Animals: Herpetology
239	Behavioral Comparisons Between Hydrodynastes gigas Supplied With Different Heating Sources	Animals: Herpetology
241	Abiotic factors influencing Morella cerifera seedling establishment in barrier island grassland swales	Ecology: Climate Ecology: Climate
243 245	Floral Phenology and Species Distributions in the Southern Appalachians The DRIVES Project, a network of long-term agricultural experiments to determine how Diverse Rotations Improve Valuable Ecosystem Services	Ecology: Climate 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
251 253	Tornado effects on abiotic conditions and tree diversity in a Kentucky mesic hardwood forest Variations in the Microbiome of Drinking Water at Concord University	Ecology: Communities 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
259 261	Interspecific interactions between Ammophila breviligulata and Spartina patens along a stress gradient The Bird Community Using Large Trees Differs in Urban Versus Rural Forests	Ecology: Communities Ecology: Communities
261	The bird Community Using Large Trees Uniters in Urban Version kural Forests Life History and Spatial Distribution of an Invasive Earthworm (Amynthias) Within West Liberty Universityâ€"s Campus Woods	Ecology: Communities
265	A bird's eye view on human disturbance	Ecology: Communities
267 269	Environmental Drivers of Seeding Distribution in a Northwoods Forest Landscape Haudu and Sacanal Datures of Visitation and Sacality is Castaron Bluebietick at an Artificial Mater Source	Ecology: Communities Ecology: Communities
269 271	Hourly and Seasonal Patterns of Visitation and Sociality of Eastern Bluebirds at an Artificial Water Source Long-term Survivorship of Planted Species and Invasion Post-Restoration on Rocky Branch	Ecology: Communities Ecology: Communities
273	The Impact of Mercury Contamination on Avian Malaria Prevalence	Ecology: Conservation
275 277	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. Rare grassland plant surveys and seed collection in the Georgia Blue Ridge and Ridge and Valley Regions	Ecology: Conservation Ecology: Conservation
281	The effect of Arbuscular mycorrhizal fungi on growth of Argnoglssom floridanum at varying soil nutrient concentrations	Ecology: Conservation
283	Correlation Between Habitat Preferences and Mass (g) of Nerodia sipedon and Regina septemvittata	Ecology: Conservation
285 287	Prey niche overlap of JorÅ spiders (Trichonephila clavata) and Spotted Orb Weavers (Neoscona crucifer). The Impact of Different Types of Green Space on Emotional State	Ecology: Conservation 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
293 295	Germination and plant growth of green bean seeds in the presence of Bisphenol B. Traditional Econolical Kownidong of Wingins Parairs (Ended	Ecology: Ecosystems and Landscapes
295	Traditional Ecological Knowledge of Virginia Barrier Islands Mollusk and drill predator relationships in the Waccamaw Formation	Ecology: Ecosystems and Landscapes 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
	2023 Sound Data Analytics at Hob Caw Barony (Georgetown, South Carolina)	Ecology: Ecosystems and Landscapes
303	Spatial Mapping and Analysis of Cambarus aff. dubius in West Virginia with emphasis on collections in 2022-2023	
305		Ecology: Freshwater Ecology: Freshwater
305 307	Effects of Hurricane Creek Water Quality on the Etowah River in Northeast Georgia Impact of Wastewater Contamination on the Overall Health of Crayfish in Rural Appalachian Streams	Ecology: Freshwater Ecology: Freshwater Ecology: Freshwater
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307           309           301           311           313           315           317           313           321           323           321           323           327           333           333           333           3341           343           343           343           343           343           343           343           345           347           343           351           353           361           363           365	Effects of Hurricane Creek Water Quality on the Etowah River in Northeast Georgia Impact of Watswater Contamination on the Overall Health of Caryfish in Neural Appalacionis Streams Does Geolgical Location Influence Stream Water Quality? Do habitat changes downstream of annali dams base consistent effects on the performance of Nocomis micropogon (River Chub) and Nothonotus rufilineatus (Redine Darter)? Do habitat changes downstream of annali dams base consistent effects on the performance of Nocomis micropogon (River Chub) and Nothonotus rufilineatus (Redine Darter)? The Characterization of Water Chemistry in Two Mid-Order Creeks in the Allegheny Plateus and Upper Olho River Valley: Assessment 50 or varial stream bandling in the System Anna System Characterizing the effect of strandre water on seeding production in Sparina alterniflora Statial analysis of under too spin georging in - Japoshtee Tabury in post tranualit. Efforsis Varnicata on the Expression of TGF-All and TGF1 in Murine Sukuctaneous Florolasts Understate on the Expression of TGF-All and TGF1 in Murine Sukuctaneous Florolasts Warnicat on the Expression of TGF-All and TGF1 in Murine Sukuctaneous Florolasts Understate the Analysis State ADS Reporters for MS State Plateon Plateon State Membrane by Floroscence Microscopy Testing SSAAADS Reporters for MS State Plateon State Membrane by Floroscence Microscopy Testing SSAAADS Reporters for MS State Morphology Pherotypes in Caenorhabditis elegans Diponting a Problematic Polypholid Mapping Cogongrass Floridy Through the high-tuffiel-conceptis invita Assessing Bioling Florolastic Plateotis Mapping Cogongrass Floridy Through the Bioling Floronasion How Collagen Matan Genotypes Links to May Mindorgy Pherotypes in Caenorhabditis elegans Distatering the Need of the Scotence State Mapping Cogongrass Floridy Through Mapping Cogongrass Floridy Through Testing State ADS analysis to Effect of Testing Marker Adversis State State ADS and State ADS analysis to ADS analysis to ADS analysis to ADS analysis to ADS analysis	Ecology: Freshwater Ecology: Populations Ecology: Populations Cell and Nelcular Biology Cell and Melcular Biology Microbiology Microbiology Microbiology Timeta Tim

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

	Friday Session 3:30 - 5:00 PM [109]	
POSTER #	Title	Торіс
192 194	Evaluating tree frog habitat use in a montane wetland environment using tree tube shelters. Comparative Behavioral Analysis of Bombus impatiens and Apis mellifera	Animal: Behavior Animal: Behavior
194	Comparative denarrow a Anarysis of domada imparents and Apis internetia Effects of Postnatal Hypothyroidism on Maternal Computativity 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 Cyprinella venusta to Acoustic Signals: Implications for the Functional Significance of Acoustic Signaling in the Genus Cyprinella	Animal: Behavior
202	Investigating the Role of Grasses in the Formation and Expulsion of Domestic Cat (Felis catus L.) Hairballs	Animal: Behavior
204	The Influence of Weather Conditions on Incubation in Prothonotary Warblers (Protonotaria citrea)	Animal: Behavior
206	Testing DNA Recovery in Sticky Trap Insects Treated with Histo-Clear	Animals: Entomology/Invertebrates/Parasitology Animals: Entomology/Invertebrates/Parasitology
208 210	Impact of the Invasive Plant Species Microstegium vimineum on Burrowing Crayfish Cambarus monongalensis Impact of American-Chinese Chestnut Hybridization on Soil Arthropod Abundance and Diversity and Entomopathogenic Nematode Presence	Animals: Entomology/Invertebrates/Parasitology Animals: Entomology/Invertebrates/Parasitology
212	Assessing the Immediate and Long-Term Effects of Neonicotionol 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 Cambarus veteranus (Guyandotte River Crayfish)	Animals: Entomology/Invertebrates/Parasitology
218	Ecological Impact of American Chestnut Hybridization on Insect Communities	Animals: Entomology/Invertebrates/Parasitology
220 222	The Creation of a Body Condition Index (BCI) and its Benefits for Heterodon nasicus Determination of Theorem (Determination of Theorem (Determinatio)))))))))))))	Animals: Herpetology Animals: Herpetology
224	Determination of Thermal Husbandry Efficacy for Hydrodynastes gigas: Growth Rates Determining dietary niche overlap of two woodland salamanders using stable isotopes in Great Smoky Mountains National Park	Animals: Herpetology Animals: Herpetology
226	Environmental covariates associated with Plains Hognose Snake (Heterodon nasicus) surface activity in a prairies habitat	Animals: Herpetology
228	Effects of hydrologic variability on the development of Lithobates sphenocephalus	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
234 236	Patterns of diazotroph diversity in nodulating plants of the Southeastern USA A Comparison of Plant Communities on Adjacent Northwest- and Southeast-Facing Slopes on Grandfather Mountain in Western North Carolina	Ecology: Communities Ecology: Communities
238	A comparison or name communities or Agacene Northwest- and Sourcest-rating Soles on Granulatine Modification in Western North Carolina Weekly Floral Survey of Callins Gulf in Savage Gulf State Park (pring 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 (Pueraria montana var. lobata)	Ecology: Communities
246	An Assessment of an Aquatic Turtle Community in Urban Wetlands	Ecology: Communities
248 250	Using stable isotope analysis to determine the basal carbon and trophic position of organisms in the St. Johns River, Florida Biodiversity from Freshwater Lentic Ecosystems Revealed with eDNA	Ecology: Communities Ecology: Communities
250	Biodiversity from Freshwater Lentic Ecosystems Revealed with eDNA Investigating the Influence of Grass-Root Interactions on Shrub Encroactiment in a Coastal Grassland	Ecology: Communities Ecology: Communities
254	Interseguing the immense of orasis-noo interactions on since chrotechine in a costantio	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
262 264	Tree seedling success at stream restoration planting sites in Rockingham County, Virginia 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 Ecology: Conservation
264	Participating in a special ropics eUNA biology Course: Reporting on the Detection of Kare Mussels from the Little Tennessee River of North Carolina Micro and Macro Plastics in Carolina Chickadee Nests	Ecology: Conservation Ecology: Conservation
268	Micro and macro reasons in caronina Cincade (1985) 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
276 278	Higher percentages of tree canopy cover correlate with more bird diversity in urban parks in Nashville, Tennessee Nashville Public High School Green Spaces: A Case of Equality and Equity	Ecology: Conservation Ecology: Conservation
2/8	nasimile runt ngi stioo steeri space. A case of equally and equity Fire Mediated Forest Structure Influences the Dispersal Dynamics of a Wind Dispersed Bunchgrass	Ecology: Conservation
282	- Spy SAV: Exploring the Role of Remote Sensing in SAV Conservation in Currituck Sound, NC	Ecology: Conservation
284	Who'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 Ecology: Conservation
292 294	Does human foot traffic changes the soundscape in an urban nature preserve Monitoring the Endangered Atlantic Pigtoe Mussel (Fusconaia Masoni) using eDNA and PCR	Conservation Genetics
296	Womong the characterize Adamic Figle Mussel (Fisconar wason) using EDIA and Fick	Conservation Genetics
298	Development of an eDNA Assay for Surveillance of the Endangered Carolina Redhorse (Moxostoma sp. Carolina) 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
304 306	Assessment of Landscape Changes and Stream Habitat Alteration at the Hurricane Creek Research Site in Northeast Georgia	Ecology: Ecosystems and Landscapes Ecology: Ecosystems and Landscapes
308	Soil temperature differences and their relation to revegetation of ASGM sites in the Western Amazon Rainforest 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
318 320	Global Scale Effects of Pollution on Parasites and Freshwater Fish Health The Intersection Between Citizen Science and Academia in Water Conservation Efforts	Ecology: Freshwater Ecology: Freshwater
322	The mersection between client stence and Academia in where contraction in the second stence is the second stence in the second stence is the second stence i	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 zooxanthellate 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
332 334	Establishment of a non-invasive method for the measurement of water-borne corticosterone in conservation efforts of imperiled species of newts Carry-Over Effects of Climate on Prothonotary Warbler (Protonotaria citrea) Feather Quality	Ecology: Physiological Ecology: Physiological
334	Can yover criects or climate or involution data warment (included a climate climate) can be a climate or involution of a climate can solid properties on evolution of a climate can solid	Ecology: Physiological 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
342 344	Variation in the scale of spatial dispersion in Asarum arifolium in Autauga county Alabama: Preliminary investigations and future goals Spatial and Population Dynamics of Invasive Pheretimoid Earthworms in West Liberty University候s Campus Woods	Ecology: Populations
344 346	Spatial and Population Dynamics of Invasive Pheretimoid Earthworms in West Liberty University24 at "s Campus Woods An Introduction to Population Studies of Bats in West Virginia State Parks, Forests, and National Parks	Ecology: Populations Ecology: Populations
348	An introduction of ropolation states of bats in west virginal state rans, rolests, and various rans. The impact of locomotion on shape of the Atlas Vertebra in Rodents	Ecology: Populations
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 Authorities (Infent) Lision cancer be blicker but on the other the context of the statement of	Cell and Molecular Biology
356 358	Antibacterial effects Liriodendron tulipifera leaf and bark extracts Assessing the Roles of EGR1 in Endoderm Differentiation	Cell and Molecular Biology Cell and Molecular Biology
360	Assessing ure notes to reach in choosenin University and ATPase activity of GST-Dbp5	Cell and Molecular Biology 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 Carvarol on Pseudomonas aeruginosa PA01 Biofilm Formation What bid of Abstration Characterization and the second	Microbiology
368 370	Mouthful of Mysteries: Characterizing the Oral Microbiome through Oxford Nanopore Next Generation Sequencing. The Role of the Second Messenger Ap4A in the Fitness of Staphylococcus aureus During Respiratory Stress	Microbiology Microbiology
370	The role of the second wessenger Appa in the Fitness of Staphylococcus alreus During Respiratory Stress Detection of Last-Resort Antibiotic-Resistant Bacteria in Sewage Influent 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	Bordetella pertussis Cloning and Conjugation	Microbiology
380	Comparison of the Different Types of Microorganisms Found in Commercial Yogurt Unpatienting of candidate hisparater from load concerned biofilms, compatibility of the file hismars, and load accepted pages	Microbiology
382 384	Identification of candidate biomarkers from lead-exposed biofilms, quantification of biofilm biomass and lead-associated genes. Evaluating Gastrointestinal Tract (GIT) Microbiomes Sensitivity and Muscle Metabolism in the Presence of Various Concentrations of Oxalic Acid	Microbiology Microbiology
384	Evaluating Gastrointestonal Tract (GLT) Microbiomes Sensitivity and Muscle Metabolism in the Presence of Various Concentrations of Uxalic Acid Using CRISPR Interference for the Knockdown of Essential Genes in Staphylococcus aureus	Microbiology Microbiology
388	Dang chara in memerine for the monotom of Estenari center in stappy occurs and the interview of the monotom of Estenari center in stappy occurs and the interview of the monotom of the interview of the monotom of the interview o	Microbiology
390	Genetic and Physical Characterization of an Unknown Bacteriophage from a Commercially-Available Sample of Bacillus thuringiensis	Microbiology
392	Analysis of Escherichia coli presence in Rocky River and Cox Creek of Anderson, SC	Microbiology
394	Phylogenetic analyses of Perezia using chloroplast genetic markers to identify a potential new species Transmostificand partners (dif take net in the Denorshift) and partnershift	Genetics
396 398	Transgenerational maternal effects on cold adaptation in the Drosophila melanogaster Tree Biodiversity in Urban and Nonurban Forests	Genetics Plant Physiology
398 400	Tree Brodiversity in Urban and Nonurban Forests Heavy Metal Impacts on Alligator Weed	Plant Physiology Plant Physiology
402	The Ecology and Genetic Diversity of Buckleya distichophylla (Santalaceae)	Plant Physiology Plant Physiology
404	Slope Dynamics on Bryophyte Biodiversity	Plant Physiology
406	Morphological Differences in the Schweinitz's Sunflower (Helianthus schweinitzii) in North and South Carolina	Plant Systematics
408	A tale of two åfcæspeciesåt : Investigating evolutionary relationships of two arctic/alpine Packera (Asteraceae) taxa using phylogenomics.	Plant Systematics
410	Genetic and phenotypic diversity within and among isolated populations of the Erigeron strigosus (Asteraceae) species complex in North Carolina and Arkansas	Plant Systematics