

In-Person Poster Assignments

#	Presenter(s)	Title	Category
1	Mahiya Alexander	Uncovering the Specific Microbiota that Aid in Growth Promotion and Stress Tolerance in Plants Using Soybean Root Samples	Biological Sciences
2	Baraa Alijawawdeh	Bioremediation of Heavy Metal-Contaminated Superfund Sites Using Manzanita Plants and Microbes	Biological Sciences
3	Juliana Boyett	Phosphorylation States of HP1a in <i>Drosophila melanogaster</i> Development	Biological Sciences
4	Zaid Budhwani	Rapid 3D Bioprinted Organoid Tumor (BOT) Assay Demonstrates Differential Efficacy and Phenotypic Response to Proteasome and Survivin Inhibitors in Colorectal Cancers.	Biological Sciences
5	Kyleigh Castillo	Role of Endophytic Plant Microbes in Heavy Metal Remediation	Biological Sciences
6	Anna Caton	Relationship Between Gut and Brain Amyloid- β in Aged Female TgF344-AD Rats	Biological Sciences
7	Nadia Cockrell	Determining the Beneficial Plant Microbes for Providing	Biological Sciences

		Abiotic Stress Tolerance to Plants	
8	Katie Cowart	The Effects of Synthetic Microbial Communities on Landoltia punctata under Heat and Oxidative Stress	Biological Sciences
9	Saher Damani	Adolescent Substance Use and Neural Reactivity to Stress	Biological Sciences
10	Roshni Datta	Determining Circadian Contributions to Nighttime Blood Pressure Variation in Black Adults Through Salivary Melatonin Analysis	Biological Sciences
11	Austin Elliott	Upregulation of UNG1 in Prostate Cancer Increases Chemoresistance	Biological Sciences
12	Grace Fagan	Identification of Beneficial Microbes in Superfund Sites	Biological Sciences
13	Suma Gadde	Implementation and validation of a semi- automated workflow for body composition measurement in a clinical image viewing platform	Biological Sciences
14	Emma Goodson	Identifying TNRC18 as a Novel Regulator of HOXA9 Leukemia	Biological Sciences
15	Sydney Hewitt	Profiling the Plant Microbiome of Different Rhizosphere Samples	Biological Sciences

16	Dylan Higginbotham	Addressing Food Security Issues through Agrobacterium-mediated Transformation of	Biological Sciences
17	Zainab Ibrahim	GBM Derived Exosomes Promote Macrophage Migration	Biological Sciences
18	Madeline Johnson	Neural Mechanisms of Sustained Attention	Biological Sciences
19	Shravya Kanchanapally	Endothelin Receptor B Blockade in a Model of Salt-Sensitive Hypertension	Biological Sciences
20	Cristen Knapp	Reversion of chromatin structure to promote alleviation of hypertrophic phenotype.	Biological Sciences
21	Richard Laube	Heavy metal pollution in plants creates a complex, two-way interaction between endophytic plant microbial communities and heavy metal contamination	Biological Sciences
22	Nathan Lehman	SRSF1 Unfolds ARPC2 RNA GQ in a RS Tail Mediated Manner	Biological Sciences
23	Amber Mayse	Undergraduate research assistant	Biological Sciences
24	Charlotte Menko	Identification of Bacteria in Rhizosphere Microbiome from Different Varieties of Soybean Plants	Biological Sciences

26	Krishna Patel	Contribution of desmoplakin isoforms to desmosome architecture.	Biological Sciences
27	Prina Patel	Age Associated Differential Collagen Deposition in Mice Ovarian Tumor	Biological Sciences
28	Aman Gupta Pokal	Identifying live solid tumor specimen preanalytical factors to reduce lab test variability.	Biological Sciences
29	Aerielle Reese	Exploring the Effects of Physical Activity on Functional Cognition of Patients with TBI or other brain diseases using the Senaptec Sensory Station and Paper/Pencil Tests	Biological Sciences
30	Dexten Retchlo	Proteomic Dynamics of Succinylation During Myogenic Differentiation	Biological Sciences
31	Ashlyn Rivers	Isolation, Identification, and Characterization of the Soybean Rhizosphere Microbiomes	Biological Sciences
32	Hesham Shiekhtholth	Role of Plant Microbiome in Alleviating Heavy Metal Contamination in Superfund Sites	Biological Sciences
33	Neha Srinivas		Biological Sciences
34	Caroline Webb	Family Connectedness and Adolescent Neural	Biological Sciences

		Reactivity to Stress	
35	Pheven Yohannes	Investigating Plants Microbiomes for Heavy Metal Resistance in Industrial Sites	Biological Sciences
36	Breanna Yound	Hydroxyproline feeding increases oxidative stress and inflammation in mouse bone-marrow derived macrophages and kidneys	Biological Sciences
37	Margaret Nyawira	SYSTEMATIC REVIEW OF FACTORS INFLUENCING THE USE OF MOBILE PAYMENT	Business
38	Emma Secor	Chief Executive Officers and Company Performance	Business
39	Jimena Villamor-Thompkins	The Impact of Outsourcing on Operating Expenses	Business
40	Riley Gray	Anthropometric Characteristics Associated with Firefighter Competition Performance	Education
41	Jaret Kehl	Changes in Heart Rate Dynamics During a Firefighting Competition	Education
42	Aviya Khan	TELEHEALTH HIGH-INTENSITY INTERVAL EXERCISE AND CARDIOMETABOLIC HEALTH IN SPINAL CORD INJURY	Education
43	Shawkat Kochi	Uab's Annual Science	Education

		Olympiad Regional Tournament and Future Planning	
44	Sneha Jayashankar	3D Printed Dentures in Dental Engineering	Engineering
45	Dhriti Rajput	Micro-strains in the Extracellular Matrix Induce Angiogenesis	Engineering
46	Varsha Vinoy	Application of Low Temperature Plasma Treatment on Polydopamine Coated 3D Printed Polymer Scaffolds	Engineering
47	Lalitha Appana	Obesity diminishes response to PD-1 based immunotherapies in renal cancer	Health Sciences
48	Gabrielle Harris	R.E.P.A.I.R. ANGELS Christmas Initiative: Rebuilding Elderly Pride to Achieve Independence & Restoration	Health Sciences
49	Kayla Peacock	The Effects of Park Visits on the Mental Health of Residents in Low-Income Senior Living Communities	Health Sciences
50	Catherine Smith	Patient-Perceived Benefits to Participating in a Remote Symptom Monitoring Program in Alabama	Health Sciences
51	Jaya Vadapalli	Correlation Between Composition and Mechanical Properties	Health Sciences

		of Dental Filling	
52	Al Mundhir AL Brashdi	Utilizing Recyclable Materials as Sustainable 3D Printing Filament	Physical and Applied Sciences
53	Nayab Ali	The Interaction of Radiation with Body Tissues for Dosimetry and Cancer Treatment	Physical and Applied Sciences
54	Kristen Buettner	Competition Between Complementary Strands And Salt Incubation Changes The Folding Landscapes of G-Quadruplexes	Physical and Applied Sciences
55	Margaret Dowling	Fish Gelatin/Nanocrystalline Hydroxyapatite Nanofiber Synthesis for Ethical Hard Tissue Engineering Solutions	Physical and Applied Sciences
56	Ashley Evans	PGC-1 Provides a Transcriptional Framework for Synchronous Neurotransmitter Release from Parvalbumin-Positive Interneurons	Physical and Applied Sciences
57	Riley Nick	Thermal processing of B2O3-Al2O3-SiO2 system of nanofibrous porous ceramic material produced by alternating field electrospinning	Physical and Applied Sciences
58	Makayla Baker	Pollution Knows No Bounds	Service-Learning
59	Katie Boyd	Does Hard Work Ever Pay O ?	Service-Learning

60	Elizabeth Brooks	The Unheard Voices Behind the Alabama Correctional System	Service-Learning
61	Saad Khan	Executing UAB's 8th Annual Middle School Math Tournament	Service-Learning
62	Neha Mawani	Improving Blazer Kitchen's Access to Spices for Multicultural Students	Service-Learning
63	Chrissy Morgan	Fighting Against The Odds of a Nearly Impossible Feat	Service-Learning
65	Lauren Smith	Shepherding the Formally Incarnated	Service-Learning
66	Janelle Guillermo	Inhibition, Surgency, and Exposure to Firearms: An Investigation of Potential Predictors of Adolescent Risky Firearm Behaviors	Social and Behavioral Sciences
67	Sunil Suresh	Low-Carbohydrate Diet Reduces Depression and Chronic Pain in Amputees	Social and Behavioral Sciences
68	Keegan Williford	Reducing distracted pedestrian behavior using Bluetooth beacon technology: A crossover trial	Social and Behavioral Sciences
69	Naga Srija Adabala	Empowering Mobility: The Adaptive Video Game (AVG) Gameplay System for Individuals with Mobility Challenges	Works in Progress

70	Victoria	Student /Researcher	Works in
71	Boatright Lauren Briggs	Calm Down: How to Improve Undergraduate Student Performance	Progress Works in Progress
72	Karen Colin	Insights from the use of age appropriate educational videos in a pediatric weight management clinic	Works in Progress
73	Sydney Currier	Investigating the Phenomenology and Perceived Mental Health Impact of Classic Psychedelic Experiences in People with a History of Psychosis	Works in Progress
75	Colby Ennis	A Review of Recent Research on Linear No Threshold Model, Hormesis, and Low Dose Radiation	Works in Progress
76	Audrey Gilbert	Distribution of NHEs & RISK1 in the Schizophrenia DLPFC	Works in Progress
77	Praneel Kamaiah	The Noah Project	Works in Progress
78	Alena Karim	How Preserving Cultural Cuisine Impacts the Health of Different Demographics in the Birmingham Community	Works in Progress
79	Peyton Kehl	Examining the Relationship Between Generalized Anxiety, Reading Anxiety, and Academic Achievement in Adolescents with	Works in Progress

		Learning Disabilities: A Proposal	
80	Malaika Maqbool	Project Rebranding Sti ness: Investigating the Influence of Muscle/Tendon Sti ness on Dynamic Balance and Physical Activity in Middle-Aged Adults with Diabetes	Works in Progress
81	Joseph McClellan	Community Health Involvement Association	Works in Progress
82	Olivia Merriam	The Identification of a Safer Green Alternative to BPA	Works in Progress
83	McKenzie Minor	Compost Aided Soil Increases Kale Embryonic and Early Growth as Measured by Plant Height	Works in Progress
84	Katelynn Murry	Combining a Sphingosine Kinase Inhibitor with Immune Checkpoint Therapy in Ex Vivo Patient Derived Lung Tumor Models	Works in Progress
85	Catherine Nguyen	The Impact of Service-Learning Projects on Local Communities	Works in Progress
86	Danielle-Louise Odom	THRIVE: A new direction in suicide recovery	Works in Progress
87	Henna Parekh	Profiling the Populations of Immune Cells in the Skin of Wild Type and DNMT3a Mice	Works in Progress
88	Isabella Parkhurst	Studying the	Works in Progress

		Dissemination of Antibiotic Resistance Genes within the	
89	Pratheek Reddy	The Alumni Project	Works in Progress
90	Ace Smith	The Impact Education Needs Have on Technical Business Requirements	Works in Progress
91	Serah Vickers	Generating Drosophila melanogaster stocks with mutations in the HP1a hinge region	Works in Progress
108	Ammar Rana	Examining the effects of HO-1 in arsenical-mediated AKI	Biological Sciences
158	Shelby Sliman	Alzheimer's Research project	Health Sciences
25	Tuan Anh Nguyen	Understanding the impact of Mucus, CO ₂ , and preceding pyocyanin exposure on Aspergillus fumigatus Germination in CF airway models.	Biological Sciences
74	Saidharshana Dhantu	Dancing Our Way Through Stress: a study illuminating Bharatanatyam's potential as a therapeutic outlet.	Works in Progress
92	Catherine Grace Sears	Repatriation	Arts and Humanities
93	Ala'a Al-Najjar	Low-dose inhalation exposure to trichloroethylene induces dopaminergic neurodegeneration in rodents	Biological Sciences

94	Sohail Baig	The heterochronic LIN-14 protein is a BEN domain transcription factor	Biological Sciences
95	Emily Buck	Progranulin Gene Therapy Improves Lysosomal Dysfunction and Microglial Pathology Associated with Frontotemporal Dementia and Neuronal Ceroid Lipofuscinosis	Biological Sciences
96	Jalen Bynum	No Sex-related Differences in Longevity of Captive <i>Tupaia glis belangeri</i> .	Biological Sciences
97	Harshita Challa	Impact of α -Synuclein Pathology on Corticostriatal Synapses in Parkinson's Disease	Biological Sciences
98	Worathon Dechanuwong	Identifying microbe responsible for increasing survivability of plant in high metal toxicity area through DNA sequencing.	Biological Sciences
99	Hannah Enskat	Ribosomal read-through of nonsense mutations of the CFTR gene as a potential treatment for cystic fibrosis	Biological Sciences
100	Alexis Grice	Understanding The Effect of Rhizosphere Bacteria of Soybean for Plant Growth and Stress Response	Biological Sciences
101	Olivia Jackson	Evaluating the role of GNAS in Pigmentation	Biological Sciences

102	Wendy Lin	The Relationship Between Resting-State Functional Connectivity and Inhibitory Attention May Vary with Fitness and Seizure Frequency in Idiopathic Generalized Epilepsy	Biological Sciences
103	Kamari Marzette	Soybean Growth Promotion and Plant Stress	Biological Sciences
104	Adrianna McCleese	The Adaptation and Survival in the Presence of Toxic Metals	Biological Sciences
105	Will Melson	Soybean Rhizosphere Microbiome Isolation to Identify Plantsâ€™ Beneficial Microbes	Biological Sciences
106	Krupa Patel	ST6Gal1-Mediated α 2,6 Sialylation Enhances Glycolytic Metabolism and Promotes BTIC Survival	Biological Sciences
107	Shriv Patel	Adult-born neurons modify excitatory synaptic transmission to existing neurons	Biological Sciences
109	Daegan Rhodes	NF1 Mutant Sprague-Dawley Rat Model Characterization for Breast Cancer	Biological Sciences
110	Kayleigh Riordan	Impairment of Active Social Behaviors in Rett Syndrome Mice	Biological Sciences
111	Caleb Sanders	White matter microstructure in posttraumatic stress disorder	Biological Sciences

112	Macy Sanders	Beneficial bacteria in a Soybean Rhizosphere in plant growth promotion and stress tolerance	Biological Sciences
113	Amrit Selva	E ffects of Specific Bacteria on the Plant Microbiome	Biological Sciences
114	Alfonso Smith	Plant Microbiome Resistance to Superfund Sites in Alabama	Biological Sciences
115	Mary Elisa Wagner	The Role of Commensal Flagellin Specific IgG Antibodies in Host-Microbiota Relationship	Biological Sciences
116	Liz Wang	High-resolution yeast quiescence profiling in human-like media reveals complex influences of auxotrophy and nutrient availability	Biological Sciences
117	Jeremiah Wood	E ffects on Plant Microbiome around Superfund Sites	Biological Sciences
118	Je rey Yuan	Characterization and Identification of Beneficial Rhizosphere Microbes in Soybean Plants	Biological Sciences
119	Kyndall Nelms	Funding of Foster Care and The Socioeconomic Impact on Former Foster Youths	Business
120	Regan Rebarchik	He’s from Los Estados Unidos!”:	Education

		Translanguaging in	
121	Divyanshi Agarwal	Power Wheelchair Trainer	Engineering
122	Daniel Dekle	Reading Assistance Device for Vision Impairment	Engineering
123	Vidhi Patel	Mechanical Regulation of Cadherin Expression in Human Cardiac, Dermal and Lung Fibroblasts	Engineering
124	Monica Rayburn	Survey of Bartonella Seroprevalence Within People Experiencing Homelessness	Health Sciences
125	Sarah Rodriguez	The Homeless Epidemic: Risk of Cellular Aging and Metabolic Syndromes	Health Sciences
126	Pratham Shah	JOINT-SPECIFICITY DICTATES CONTRIBUTION OF ECCENTRIC MOMENT AND AMORTIZATION TIME TOWARD COUNTER MOVEMENT JUMP PERFORMANCE IN CHILDREN	Health Sciences
127	Emerson Cutcliffe	Voltage Sensitive Phosphatase degrades PIP ₃ , which Inhibits NBCe1-B/C Activity in a Frog Oocyte Model	Physical and Applied Sciences
128	David Russell	Multivariate Modeling to Determine Concentrations of Elements found in Used Nuclear Fuel Recrystallization via	Physical and Applied Sciences

129	Rachel Weng	Evolution of magnetism, valence, and crystal lattice in EuCd ₂ As ₂ under pressure	Physical and Applied Sciences
130	Alex Gabala	Re-Building Purpose: One Conversation as a Time	Service Learning
131	Navya Gullapalli	Increasing HerScience Awareness Through "Are You Smarter Than a Fifth Grader?"	Service Learning
132	Marvin Ha	Growing Blazer Gardens	Service Learning
133	Rakshith Ramdas	Educational Reform to Correct Racial Disparities	Service Learning
134	Shea Reiersen	Life Is Like Legos	Service Learning
135	Christian Brown	The EPA's Promotion of Bioterrorism: Exploring the EPA's Neglect of Environmental Harm	Social and Behavioral Sciences
136	Emma Eason	Examining Low Birth Weight as a Mechanism Linking Prenatal Smoking Exposure with Cigarette Smoking in Adolescence	Social and Behavioral Sciences
137	McKenzie Heard	Stigma and Stereotype Threat Interventions In Individuals with Specific Learning Disabilities: A Systematic Review	Social and Behavioral Sciences
138	Kevin Kirwan	A New Heart and Spirit	Social and Behavioral Sciences
139	Mary Grace Roe	Dietary Intervention in	Social and Behavioral

		ADHD Management	Sciences
140	Cassidy Stoddart	The Impact of Life Course Community Belonging on Later-Life Cognitive Health Across Racial-Ethnic Groups	Social and Behavioral Sciences
141	Ayesha Abuzer	Bone Metastasis of Breast Cancer: p-Lentivirus knockdown of RANK and RANK-Ligand	Works in Progress
142	Dawson Culver	Mechanical Transradial Prosthetic	Works in Progress
143	Rachel Ferris	E ect of increased heterochromatin on lifespan and activity in Drosophila melanogaster	Works in Progress
144	Jacqueline Hernandez-Burgos	"Symbiotic Insights: Agrobacterium-Chlamydomonas Interaction Unveiled for Biotechnological Advancements"	Works in Progress
145	Ariana Howell	Investigating the relationship between stress levels and gut microbiome in undergraduate students	Works in Progress
146	Rebecca Iglesias	Establishing Daphnia pulex as an Alternative Model for Aging Biology	Works in Progress
147	Raquel Lammi	AMPLIFI: Improving Cancer Survivor Health through Exercise and Diet	Works in Progress
148	Natalie Moon	Exploring di erences	Works in Progress

		in health behaviors between black and white patients with MS in the Deep South	
149	Abby Nolan	Responses across high gamma, alpha, and theta frequency bands during acute psychosocial stress in humans	Works in Progress
150	Goodness Olabode	Elevating Communities through Service-Learning Projects	Works in Progress
151	Mackenzi Parks	Pericardiocentesis Simulator	Works in Progress
152	Satvi Penala	Using AI-Predicted Therapeutics in Precision Medicine: A Path Forward for GNB1-Related Disorders	Works in Progress
153	Kylie Pinkney	Timing of Energy Intake and Associations with Adiposity among Postpartum Women: A Pilot Study	Works in Progress
154	Osadebamwen Ugbo	Large Format Computerized Assessment of Cognitive Processing Speed	Works in Progress
155	James Walts	Altering Phosphorylation of HP1a Induces Sterility and Excites Early Cell Death in Drosophila melanogaster	Works in Progress
156	Jaylon Williams	THE INFLUENCE GRIT HAS ON THE VARIOUS OUTCOMES OF	Works in Progress

		ELEMENTARY AND MIDDLE SCHOOL	
157	Kelli Woods	Molecular Detection and Viability of Hepatitis A Virus in Frozen Strawberry Matrix	Biological Sciences
159	Reese Williams	Increased aerobic glycolysis in urogenital epithelial cells upon Mycoplasma genitalium infection	Biological sciences
160	Yihe Wang	The Influence of Work Model on Productivity in Accounting	Business