

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

Poster Presentation Session 1: Friday, March 15 (10:00am – 12:00pm)
 Poster Presentation Session 2: Friday, March 15 (4:00pm – 6:30pm)
 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

Session #	Board Location	Author Name	Abstract Title	Institution	Abstract ID #
1	1	Marielle Cooper	Analysis of APC variants in Trisomy 21	Oakwood University	14
1	2	Celine Ortiz	MSN linked NANPS as a tool for the silencing of anti-apoptotic genes in TNBC	University of North Carolina at Charlotte	258
1	3	Vanella Tadjuidje	Suppressor of Cytokine Signaling (SOCS) 1 Regulates IFN- γ Signaling in Chlamydia muridarum-Stimulated Mouse Macrophages	Alabama State University	46
1	4	Daela Gray	Cannabidiol Oil Affects Motor Behaviors of Third-Instar Larvae of Drosophila Melanogaster with a Pharmacological Dosage Profile Conserved with that of Mammalian Systems.	Harris Stowe State University	255
1	5	Aniyah Wilson	Comparing p53 hypomorphic cell growth rates and Binimetnib treatment response to wild type p53.	Delaware State University	55
1	7	David Bradford	Pyruvate-Enriched Hypothermic Perfusion of Porcine Kidneys	Livingstone College	60
1	8	Freddiemae La'faith Thompson	Mitochondrial Morphology regulates proximal tubule cell differentiation status	University of Arkansas at Pine Bluff	259
1	9	Caspar Carson	Periplasmic expression of anti-RoxP antibody fragments in Escherichia coli.	Binghamton University	62

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1	11	Jiwon Choi	Dose-dependent Inhibition of NIH 3T3 and COS-1 cell proliferation by Sodium nitrite, sodium benzoate and benzoic acid	Savannah State University	63
1	13	Cai Davis	The transcriptomic response of two spotted spider mites against different hemp cultivars	Jackson State University	65
1	15	Katelyn Green	Effect of Complex I-dependent Respiration on Mammalian Mitochondrial Proteins	Savannah State University	69
1	17	Chelyn Love-Johnson	Testing Production of Tagged Netrin1 in the Developing Chicken Embryo	Clark Atlanta University	75
1	19	Jaisha Shumpert	SARM1 Role in Injury Induced Activation and Recruitment of Macrophages	Ball State University	79
1	20	T'kai Adekunle	Mosquitofish Prey Preference in a Predator-Prey/Host-Parasite System	Savannah state university	263
1	21	Janecia Smith	Effect of Protease Inhibitors on Viability of Cultured Liver Cells	Lawson State Community College	80
1	23	Rida Mirza	Evidence for accelerated immune aging and cardiac events within sclerostin-deficient mice	University of California, Merced	34
1	25	Alexa Shea Cooney	The Effects of Agrochemicals on Mosquito Life Histories and Immune Function	University of Central Florida	13
1	27	Adrion David Celey	Nutritional Availability of Blending Legumes as a Protein Source for Weaning Foods in Kenya	University of the District of Columbia	11
1	29	Mitdalia Alonso	Age and growth characteristics of Smallmouth Bass exhibit multiple responses to a thermal gradient	Columbus State University	6

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

1	31	LeVar Akerson	The Effect of Temperature on Metabolic Rates in Juvenile Pond Turtles	Virginia State University	3
1	33	Wilgeyshka S. Acevedo Acevedo	Prevalence of E. coli in milk samples from cows with mastitis in the southwest of Puerto Rico.	University of Puerto Rico Aguadilla	1
1	35	Jayden Vanterpool	Nanoparticles prevents Staphylococcus aureus-induced apoptosis in human endothelial cells.	Oakwood University	82
1	37	Mayah Seal	The role of vanillin in regulating Streptolysin O function	Oakwood University	78
1	39	Taryn LaGrone	Isolating and Characterizing Gordonia Bacteriophages	University of Arkansas at Pine Bluff	74
1	41	Sydney Harris	Regulation of Hemolytic Properties of Pathogenic Bacteria by Thymus vulgaris and Allium sativum extracts	Oakwood University	71
1	43	Nicholas Haas	In Vitro Interaction between Barium Chloride and Pyrimethamine against Toxoplasma gondii growth	Department of Biological Sciences, College of Engineering and Natural Sciences, University of Tennessee at Martin, Martin, TN	70
1	45	Stephanie M. González-Avilés	Prevalence of Streptococcus agalactiae in milk samples from cows suspected of sub-clinical mastitis.	University of Puerto Rico-Aguadilla	68
1	47	Javier O. Galarza-Avilés	Prevalence of S. aureus in milk samples from cows with sub-clinical mastitis.	University of Puerto Rico-Aguadilla	67

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

1	49	Aouss Azzouz	Exploring the Antibacterial Properties of Cannabidiol and Garcinol	Earlham College	59
1	51	Hector G. Torres-De Jesus	Metabolite Analysis in Wetland Habitat of <i>Eleutherodactylus juanariveroi</i>	University of Puerto Rico at Humacao, Humacao P.R.	48
1	53	Trena Harris	The Darkside of Light: Geospatial Analysis of Maternal Depression as Affected by light pollution and proximity to Maternal Health Resources	Harris-Stowe State University	20
1	55	Juliana Valentine	3D Bioink Preparation Using Biocompatible Polymers for Skin Tissue Regeneration Application	University of Central Florida	50
1	57	Re'Nyah Vincent	Label Free Tracking of Cellular Metabolism in Glioblastoma Using Optical Metabolic Imaging in Response to Combined Chemo-Radiotherapy	University of Arkansas at Pine Bluff	51
1	59	Charrel Williams	Acute Toxicological Effects of Copper on <i>Palaemonetes</i> spp.	Southern University at New Orleans	54
1	61	Kayla Hartley	Efficacy of Spirulina Polypeptides in inhibiting the growth of Human Lung Tumor (H460) Cells	Norfolk State University	72
1	63	Jacqueline Price	Elimination of Salmonella, Campylobacter, and spoilage bacteria in ground chicken patties through the application of Electron Beam (eBeam) Technology	University of Arkansas at Pine Bluff	77
1	65	Diego Castaneda	Using NMR Spectroscopy to Study the Physical Properties of Micelles formed by Eco-Friendly Surfactants	Carthage College	83

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

1	67	Drilon Etemi	Multidimensional gas chromatography and liquid-extraction applications for vegetative foliage and medicinal chemical research.	University of Wisconsin-Madison	87
1	69	Anna Huszar	Development of Poly(arylene ether sulfone) based MXene Composite Material With Enhanced Mechanical Properties	Florida State University	88
1	71	Simeon Newman	Crosslinking Phenolphthalin based Poly(arylene ether sulfone) and Its Effect on Nitrate Remediation	Florida Agricultural and Mechanical University	90
1	73	Mina Perez	Novel One-pot Synthesis of Selenochromone and Thiochromones	Winston-Salem State University	92
1	75	Paulina Ramirez	How many guests are there? Binding of Cucurbi[n]turils (hosts) and Pyronin Y (guests)	University of West Georgia	93
1	77	Robert Rauscher	NMR Analysis of Micelle Formation by Bio-Based Surfactants	Carthage College	94
1	79	Ethan White	Catalytic CO ₂ Reduction Using a Cu-Coordinated Carbon Nitride and Effects from a Modified Framework	University of Arkansas at Pine Bluff	98
1	81	Mikayla Smith	Tuning Properties of Xylitol Polyesters Using Varied Diacids For Nanoparticle Drug Delivery	Florida A&M University	180
1	83	Cynthia Rodriguez-Cruz	Neuromorphic Computing Enabled by Multiferroic Tunnel Junctions for Medical Applications	University of Puerto Rico, Cayey	179
1	85	Zina S. Medina-Barreto	Determining the Topology of poly (DCPD) and its Impact on Mechanical Properties	University Of Puerto Rico Mayaguez	178

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1	87	Aisha Mansoor	Transferrin-Conjugated Ionizable Lipid Nanoparticles for the Delivery of mRNA across the Blood-Brain Barrier	Rutgers University	177
1	89	Hayley Kendall	Optimization and Fabrication of Electrochromic Devices for Reduced Energy Consumption Using Poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)	Norfolk State University	176
1	91	Paola S. García Polanco	Gas Sensor Applications Utilizing Zinc Oxide Thin Film Decorated with Silver Nanoparticles	University of Puerto Rico at Cayey	175
1	93	Stephanie Garcia	An Exploratory Study on the Development of Sargassum Algae-Based Biodegradable Polymer Composites Via Selective Laser Sintering	Polytechnic University of Puerto Rico	174
1	95	Naomy K Fontanez Rosa	Analysis and Comparison of β -Ga ₂ O ₃ :Cr Microcavities by Photoluminescence and FDTD Simulations	Interamerican University of Puerto Rico	173
1	97	Natalia S. Flores Carrasquillo	Emerging materials for Brain-inspired computing	University of Puerto Rico at Mayagüez	172
1	99	Alondra Cruz	Exploring Solutions to Fast Fashion: Fabrication & Characterization of Composite Textiles Grown from Live Organisms and Algae Derivatives	Polytechnic University of Puerto Rico	171
1	101	DaiZeiona Finley	Stabilizing Promethium, Creating a Long-Lasting Life	Jackson State University	106
1	103	Endia Douglas	Unlocking the Potential: Sulforaphane vs. TNBC	University of Arkansas at Pine Bluff	105

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

1	105	Brenda Davila	Drug Discovery and Design: Kappa-Opioid Receptors Antagonists Inhibitors Affinity	Miami Dade College	103
1	109	Patricia Soto	An Analysis of Green Synthesis of Gold Nanoparticles Utilizing Orchid Plant Extracts as a Beneficial Candidate for Cancer Research	Jarvis Christian University	181
1	111	Stefan Tabacaru	Observing an Ideal Balance: Cathode Thickness Effects on Electrochemical Performance	Lee College	182
1	113	D'Angelo Wilson	Optimizing Energy Usage through Fabrication and Enhancement of Electrochromic Devices	Norfolk State University	183
1	115	Joshua Beatty	Examination of the Thermal Properties of Polymeric Materials with Lignin and Char Residues of Lignin	Johnson C. Smith University	184
1	117	Saeed Dupree	Kinetic Studies on the Formation of Char Residues from Cellulose Nanofibrils	Johnson C. Smith University	185
1	119	Daniel M. Harrington	Polymer Passivation of 2D TMDs for Photodetector Applications	Tufts University	186
1	121	Curtis Jordan	Enlightening Insights: Illuminating the Refractive Index of 3D Printing Resins	Norfolk State University	187
1	123	Chevel Samuels	Optimization of the Fabrication of Pyrite Cathode Through The Sulfurization of Steel Spacers	Norfolk State University	188
1	129	Enyce Fairbanks	The Role of Gut Microbial Metabolites in Intestinal Iron Storage Pathways	Arizona State University	253
1	131	Javier O. Galarza-Avilés	Prevalence of S. aureus in milk samples from cows with sub-clinical mastitis.	University of Puerto Rico-Aguadilla	265

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1	133	Taylor Bias	Analysis of the Enzymatic Capacity of MitoNEET	Ball State University	250
1	135	Robert Chase	Isolating salt-tolerant mutants of Kalanchoe using in vitro protocols	Elizabeth City State University	262
1	157	D'Angelo Wilson	Optimizing Energy Usage through Fabrication and Enhancement of Electrochromic Devices	Norfolk State University	260
1	159	Jasira Jzar	Endophytes Diversity in Chia Seed (<i>Salvia hispanica</i>) in Kenya	Howard University	256
2	6	Fahim Ahmed	Development of inhibitors for activated Cdc42-associated kinase (ACK) to induce apoptosis in v-Ras-transformed cells.	Medgar Evers College, City University of New York(CUNY)	2
2	10	Jordan Newton	Properties of Convective Outflow during the TRACER Campaign - Abstract	Texas Southern University	163
2	12	Nayellie Perez-Torres	Microalgae and other microorganisms detected and identified in Yabucoa Bay, Puerto Rico	Inter American University of Puerto Rico, Fajardo	164
2	14	Julie Dada	Binding Interaction Analysis to the Putative SARS-CoV-2 Inhibitor Ouabain to Na ⁺ /K ⁺ -ATPase	Valencia College	16
2	16	Paola Marie Santini Dosal	Effects of Daily, Monthly and Annual Rainfall Fluctuations in Central Florida From 1950-2022	Valencia College	166
2	18	Destiny Jones	Analysis of SARS Coronavirus Subvariants on a College Campus	Grambling State University	22
2	24	Esther Olawunmi	EFFICACY OF ULTRAVIOLET RADIATION DISINFECTION TECHNIQUE IN ELIMINATING	Bowie State University	257

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			PATHOGENIC MICRO-ORGANISM FROM AQUAPONIC SYSTEMS.		
2	28	Cristy M. Rosado Bonilla	Phase change material to 6G technology	University of Puerto Rico	214
2	30	Teagan Muraoka	Computer Simulation and Optimization of Interplanetary Space Travel to Mars	University of Hawaii at Manoa	213
2	32	Jasmine Freeman	Evaluating Stellar Composition Through Analysis of Continuous and Absorption Spectra	Valdosta State University	212
2	34	Janelle Darden	Reducing Biomedical Hazards of Electromagnetic Interference	Morgan State University	211
2	36	Nalu Brede Jr.	Slingin' to the Moon	Kaua'i Community College	210
2	38	Adrian Rua	Synthesis, characterization and ultrafast dynamics of Iron-based superconducting thin films	University of Puerto Rico- Mayaguez	209
2	40	Ryan Emanuel Querrard	(LOONS) Development for Charged and Neutral Particles	University of the Virgin Islands	208
2	42	Joe Popp	Artificial Neural Networks Search for Gravitational Waves	Saint Joseph's University	207
2	44	Parker Johnson	Accuracy and Efficiency of Integration Methods for Modeling Reactions	University of North Dakota	206
2	46	Nicky Ishaak	Calculating the trajectory of a gram-scale interstellar spacecraft moving at relativistic speeds	University of Texas, Dallas	205

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

2	48	Ja'Heim Goodwin	Optical spectroscopic investigation of Sm 3+ nanoparticles embedded amorphous medium.	Alabama Agricultural and Mechanical University	204
2	50	Rachel Gilbert	Characterization of Protein Foldon Physical Energy Landscapes	Texas Southern University	203
2	52	Jameal Lee	Tandem Perovskites materials with solar cells	Livingstone University	107
2	54	Laurenz Millin	SCALABLE, DECEPTIVE PATH PLANNING WITH GRAPH NEURAL NETWORKS AND REINFORCEMENT LEARNING	University of Maryland, Baltimore County	129
2	56	William Otoo-Mensah	Enhancing Speech Intervention Strategies for Children with Speech Difficulties Using Reinforcement Learning	University At Buffalo	130
2	58	Crystal Costa	Detection of per-fluoroalkyl and poly-fluoroalkyl compounds in the soils of Vieques.	University of Puerto Rico Rio Piedras Campus	84
2	60	Arianna Malon Davis	Click Chemistry: Determining the Effect Chitosan Plays on the Physicochemical Properties of Poly(arylene ether)- based Glycopolymer for Reverse Osmosis	Florida Agricultural and Mechanical University	85
2	62	Iman Deanparvar	Molecular Dynamics Simulation Study of Drug Binding to the V122I Transthyretin Protein Variant	Carthage College	86
2	64	Kristine Maxwell	Effects of alkalinity on hydrolysis of herbicide Isoxaflutole in natural water	Truman State University	89

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

2	66	Zahria Patrick	Green Synthesis of Glutethimide Intermediate via NASH Reaction	University of Missouri - St.Louis	91
2	68	Kiarah Richards	Synthesis and Characterization of THPE-TMC Polymers for Remediation of Nitrates	Florida Agricultural and Mechanical University	95
2	70	Jeremy Rivera Sánchez	Sargassum-Derived Biocarbon's: Thermogravimetric Analysis Insights into New Sustainable Production.	University of Puerto Rico, Rio Piedras Campus	96
2	72	Kyla Mei Antonio Tuazon	Drought effects on finger millet growth and legumes impact on biofortifying baby food	University of Guam	97
2	74	James Wilson	2D 1H-NMR Studies of a Single Modified Locked Nucleic Acid in a Sequence of an Otherwise Unmodified DNA Sequence.	Missouri State University	99
2	76	Kendall Wood	Novel reactivity of D-Arginine Dehydrogenase with Oxygen upon mutating loop residue E246	Morehouse College	100
2	78	Dajaneen Alejandro-ortiz	Controlled Liquid Deposition of Perovskite Crystals with Varied Sizes onto a Single Substrate	Livingstone College	101
2	80	Saa'Naudia Deloatch	Exploring the Potential of a new polymer as a hole transporting material for Perovskite Solar Cells	Livingstone College	104
2	82	Sophia Khan	Shallow Convolutional Neural Network (CNN) for Cotton Weed Species Identification in Precision Weed Management	Fort Valley State University	128
2	84	Tykerria Jenkins	Developing a hybrid model for advancing medical diagnosis of respiratory diseases: Integrating expert systems and machine learning algorithms	Fort Valley State University	127

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

2	86	Benjamin Barrera-Altuna	City-Focused Air Quality Inference Learning	University of South Florida	123
2	88	Vivian White	Randomized Scattering Convolutional Networks	Western Washington University	122
2	90	FARHAN MUNTASIR	Network Traffic Analysis and Intrusion Detection in the Era of Emerging Technologies	Texas Southern University	120
2	92	Jacob C. Locklear Stewart	From field work to app development: making water quality data accessible in the Lumber River, NC watershed	University of North Carolina at Pembroke	119
2	94	Abok Kawaj	Utilizing SocioCyber App for Simulated Research on Employees Efficiently and Performance Predictability	Norfolk State University	118
2	96	Vincent D. Ingram	Prodigy Assistant: A Smart Solution for Student Task Management and Academic Success	Morgan State University	116
2	98	Eddy Figueroa Picon	Data Rate Optimization for Power-Efficient Animal Behavior Classification	University of Puerto Rico - Arecibo	115
2	100	Sabrina Diaz-Erazo	Conveying the Relative Energy Consumption of Computations	San Francisco State University	114
2	102	Camille Catolos	Hyperparameter Optimization of Plant Root Segmentation	Skyline College	113
2	104	Renee Catanach	Empowering Young Women in Computing: The Impact of Early Exposure and Mentorship	New Mexico State University	112

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

2	106	Hannah Benjamin	ASL Consent in the Digital Informed Consent Process	New Jersey Institute of Technology	110
2	108	Hannah Alexandre	Identifying Political Content On Twitter With A Keyword-Based Classifier On A Machine Learning Model	University at Buffalo	109
2	110	Emiliano Gonzalez	Mapping and Interpreting the Formation of Martian Depositional Rivers	California State Polytechnic University, Pomona.	143
2	112	Shamari Long	A tale of two neighborhoods: Health disparities in urban communities with food deserts.	Harris-Stowe State University	144
2	114	Alexander Y. Lúyando Canales	“Zanjones”: What are they and how do they differ from regular sinkholes.	Univerisdad de Puerto Rico, Arecibo	146
2	116	Nayomi McPeters	Daily Metabolic Rates in Pond Turtles (<i>Trachemys scripta</i>) at Vary Temperatures	Virginia State University	148
2	118	Amarachi Nwawueze	Food or Fungus: An Examination of House Fly Response to Different Concentrations of a Fungal Biopesticide	Northern Illinois University	149
2	120	Ethan Peters	A New Dimension in Urban Climate Modeling: LiDAR and Generative AI Quantifying Greenspace	New York City College of Technology	151
2	122	Yeishmary M. Soto Muñiz	Analyzing plant-pollinator interactions through a temporal scale across an elevation gradient	University of Puerto Rico, Rio Piedras campus	155

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2	124	Paola Canales Cuebas	Ecological Characterization of Aquatic Environments Associated to Underground Drainage Systems in Northern Puerto Rico	Universidad del Sagrado Corazón	158
2	125	Payton Brown	Crystal Growth of BaTiO ₃ using the Optical Floating Zone Technique	Norfolk State University	248
2	126	Valentina S. Méndez De León	Detection and identification of bacteria in Yabucoa's Bay, Puerto Rico	Inter-American University of Puerto Rico, Fajardo campus	162
2	127	Pablo Bautista-Cortezano,	Experimental Setup Design For Cryogenic Transduction	North Carolina Central University	264
2	128	Naima Akter	Optimizing the Visual Barcode System NucBow to study drug resistance in KRASG12C pancreatic cancer	Hamilton College	4
2	130	Stephanie Cruz	Marathon RT purification from recombinant E. coli via affinity chromatography	University of California, Santa Cruz	15
2	132	Ria Salway	Analyzing the expression of heat shock proteins and color morphs in populations of Nucella lamellosa	Louisiana State University	165
2	134	Ternya Gibson	Evaluating Ucp1 Gene Expression in the White Adipose Tissue of Rats with a Knockout of Adcy3	Fort Valley State University	18
2	136	Marisha Towner	Arbuscular Mycorrhizal Fungi Production, Conventional versus Organic	Fort Valley State University	167
2	138	Asiah Giuntoni	Constraining the capacity of sediments to carry organic carbon in Arctic rivers	UC Berkeley	142

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 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

2	140	Joshua Farley	Magmatic Plumbing System Development with Synemplacement Shear, Southern Willowa Mountains, Oregon	Texas Southern University	138
2	142	Gabrielle Cruz	An evaluation of the impact of invasive red-eared sliders on a turtle community	Saint Joseph's University	134
2	144	Henessae Shavers	Optimization of Flow Cytometric Analysis for Regulatory and Inflammatory Eosinophils	University of Arkansas at Pine Bluff	44
2	146	Hilary Roberts	Fitness Cost associated with Phage defense systems in <i>Vibrio cholerae</i>	University of the Virgin Islands	40
2	148	Yavier Nazario	Isolation and characterization of <i>Mycoplasma bovis</i> in milk samples from cows with clinical mastitis.	University of Puerto Rico, Aguadilla	37
2	150	Amayia Murphy	Benzalkonium Chloride Enhances Cell Death Induced by Etoposide in a p53-independent Manner.	Savannah State University	36
2	152	Noel Madapatu	Investigating Melittin and Garcinol as antimicrobials in 2D and 3D cultures	University of Alabama at Birmingham	30
2	154	Jamiya Lewis	Aminoglycoside Effects on <i>Chlamydia Trachomatis</i> Bacteria	Dillard University	29
2	156	Maya Leon	An Analysis of the Biodiversity of Aquatic Ecosystems Using Metagenomics	Lane College	28
2	158	Kaya Black	Antiparasitic Activity of Methanoic Blueberry Extract and Its Chemical Fingerprinting	Dillard University	9

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

Poster Presentation Session 1: Friday, March 15 (10:00am – 12:00pm)
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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

2	160	Kellyann Román-Cruz	α 7-nAChR Upregulation as a Therapeutic Target, Mitigating SARS-CoV-2 Entry into Human Cardiomyocytes	University of Puerto Rico at Humacao	41
2	161	Kaya Peyton	Development of a compact wind for mosquito exposure to formulated products	North Carolina Central University	261
2	162	Angelina Morgan	Investigating Pnrc2 and its role in regulating segmentation clock oscillatory gene expression	Grambling State University	35
2	164	Yumie Lee	A genome-wide knockdown screen for host factors that participate in CRISPR adaptation reveals novel factors required for spacer acquisition	University of California, Merced	26
3	1	Michael Bello	The Association between Non-Alcoholic Fatty Liver Disease (NAFLD) and Pancreatic Cancer (PC): A Possible Metabolic Role of Hepatic Lipogenesis through AKT/GSK3b	University of Illinois at Chicago College of Medicine	8
3	3	Alondra M. Colón Vega	Evaluating LIGHT expression in head and neck cancer immune cells in mouse models with different responses to immune-checkpoint blockade	University of Puerto Rico - Ponce	12
3	5	Karliane Delgado-Soto	Interrogating crosstalk between the MOZ and HBO1 complexes in leukemogenic transcriptional control	University of Puerto Rico at Humacao	17
3	7	Moreen Kabuho	Photodynamic priming to overcome chemoresistance in Pancreatic Cancer	Jarvis Christian University	23
3	9	Nivedita Kinatukara	Alginate Nanoparticles as an Active Target Carrier of a-Mangostin for Breast Cancer Cells	The College of New Jersey	24

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 2: Friday, March 15 (4:00pm – 6:30pm)
 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	11	Annika Mechelke	Elucidating the role of Ruminococcus spp. in preclinical melanoma	University of Wisconsin-Madison	32
3	13	Joaquin Parrilla-Garcia	Toward next-generation allogeneic CAR-T cells by adenine base editor-mediated epitope editing and protein disruption to avoid fratricide and GvHD in pan-hematopoietic cancer patients	University of Puerto Rico - Mayaguez	38
3	15	Rheissom Prophete	Replacement of DOPE by DOPE-PEG in aptamer-functionalized lipid nanoparticles to enhance targeted drug delivery to the cancer cells	Xavier University of Louisiana	39
3	17	Varsha Subramanyam	Analyzing the Role of PCSK9 in Cholesterol Uptake in Pancreatic Ductal Adenocarcinoma	University of California, Los Angeles	45
3	19	Mya Thompkins	Targeted Delivery of Doxorubicin Liposomes to Her-2+ Breast Cancer Cells	Xavier University of Louisiana	47
3	21	Zacchaeus Wallace	Using Patient-Derived Samples to Analyze the Correlation Between Peritoneal Stiffness and Ovarian Cancer Metastasis	University of Southern Mississippi	52
3	23	Maraé M. Woodson	Investigating potential molecular targets for diet induced obesity in early stages of pancreatic carcinogenesis in mice	Savannah State University	56
3	25	Edmarie Rivera Sánchez	Unearthing the biodiversity of the Mucoromycota fungi within the Caesarea Mediterranean Scrub and the Be'er Sheva Negev Desert in Israel	University of Puerto Rico, Arecibo Campus	153
3	27	Raymond Rhodes	Health Risk Assessment of Trace Metals in Houston's Soils	Texas Southern University	152

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	29	Jordan Oliver	Integrating Sugar and Reduced Lignin in Fodder Sorghum (<i>Sorghum bicolor</i>) Improves its Digestibility and Increase Metabolizable Energy	Bowie State University	150
3	31	Aisha Malik	Assessment of Inland Lake Water Color and Dissolved Organic Content via Satellite-Based Machine Learning	CUNY Hunter College	147
3	33	Gustavo Lozada Rivas	Assessment of microalgae population in Mosquito Bioluminescent Bay in Vieques in Puerto Rico archipelago.	Interamerican University of Puerto Rico, Fajardo Campus.	145
3	35	Victor Garcia	Sediment Input into the Nueces and Corpus Christi Bays from surrounding watersheds: Field Data Collection and Analysis	Texas A&M University Kingsville	141
3	37	Juliette E. Fontanet Gómez	Heavy Metal determination in Sargassum from Coastal Regions of Puerto Rico	University of Puerto Rico-Rio Piedras Campus	140
3	39	Leira Figueroa Medina	Assessment and Quantification of <i>Vibrio</i> spp. on Water and Sand Samples in Recreational Waters of Puerto Rico: A Public Health Approach	Universidad Ana G. Mendez	139
3	41	Raven Edwards	Application of Clove Bud Essentials Oil in Reducing <i>Escherichia coli</i> on Pecan Halves	Fort Valley State University	137
3	43	Deborah Duong	Analysis of Angiosperm & Gymnosperm Specimens at the Barnes Arboretum in Response to Climate Change	Saint Joseph's University	136

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	45	Yeshi Dolma	From Wealth to Wellbeing: Air Quality Analysis of Santa Cruz with Dharavi, Poverty-Stricken Neighborhood	CUNY NYC College of Technology	135
3	47	Abeni Fabre	Curcumin Blunts the Growth of Invasive Ductal Carcinoma Cells in Vitro	Oakwood University	66
3	49	Wynashia Bratcher	ANTI-PROLIFERATIVE EFFECTS OF MITHRAMYCIN AND CHEMOTHERAPY COMBINATION AGAINST EWING SARCOMA CELLS	Livingstone College	61
3	51	Mojisoluwa Awolowo	Ferroptosis Induction Therapy for Castration Resistant Prostate Cancer	Morgan State University	58
3	53	Aubrey Rutz	Modeling the Adsorption of Sargassum-Derived Hydrochar	University of South Florida	154
3	55	Leyshka Vivas-García	A Microbiological Systematic Assessment of Water and Soil in El Yunque Tropical Rainforest in Puerto Rico	Interamerican University of Puerto Rico, Fajardo Campus	156
3	57	Anijha Baker	Emerging Technologies in Sorghum Plant Breeding	Fort Valley State University	157
3	59	Ana Cortes Norat	Identification and Quantification of Heavy Metals (Zinc) on Vieques Soil	University of Puerto Rico-Río Piedras	159
3	61	Nyiefa Cumberbatch	Vernalization Effects on Reproductivity in <i>Boechera stricta</i>	Fort Valley State University	160
3	63	Bryan L. Lugo	Microbiological population assessment of Mosquito Bioluminescent Bay in Vieques, Puerto Rico.	Interamerican University of Puerto Rico	161

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	65	Korina Alcantara	Urban Water Conservation Social Survey	Texas A&M University-San Antonio	108
3	67	Jerry Breda Jr.	Improving User Interfaces for Operating the sPHENIX Experiment	Texas Southern University	111
3	69	Taseen Islam	Utilizing Land Surface Data for Air Temperature Prediction in Urban Regions through Machine Learning	CUNY Macaulay Honors College	117
3	71	Juan Torres,	AI-Powered Defense: Reinforcement Learning in the Battle Against Hardware Trojans	New Mexico State University	121
3	73	Isaiah J Bastien	Re-IMAGINE Undergraduate Learning in Biology Courses	Lawson State	124
3	75	Matthew Dacanay	Simulations of X-ray Diffraction Data	Skyline College	125
3	77	Nathan Dayie	Developing an Infrastructure For a Large Scale Field Experiment on Ad-Blocking and Anti-Tracking	University of Maryland, Baltimore County	126
3	79	Mason Willman	Air-Biomaterial Interactions: Investigating Aerobic Influences on Kombucha SCOBY Growth	Pennsylvania State University, The Behrend College	131
3	81	Collins I. Ijale	Mental Health and Sleep in Women with HIV	Fisk University	197
3	83	Abigail Hernandez	Establishing RNAi in a non-model system	University of Missouri	196
3	85	Michael Hall	Disruptive light exposure leads to weight gain and light insensitivity during early development and binge eating during adulthood.	Oakwood University	195

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	87	Alyssa Davis	Can trauma haunt Drosophila melanogaster for generations?	Georgia State University	194
3	88	Malachi Morris	Intranasal insulin ameliorates brain injury and improves neurobehavioral performance following systemic lipopolysaccharide exposure in neonatal rats	Jackson State University	268
3	89	Alanis Dávila-Santiago	Association Between High Glucose Levels and Inflammatory Cytokine Expression in Rat Astrocytes	University of Puerto Rico, Aguadilla	193
3	90	Alayah Solomon	Exploring the Relationship Between FSH hormone levels and White Matter Tract Lengths in the Human Brain.	North Carolina Agricultural and Technical State University	267
3	91	David Banuelos	Human discriminability of amplitude modulated sounds across different base frequencies	California Polytechnic State University, Pomona	192
3	92	Christian Blue	Fueling Global Logistics: Geospatial Analysis of POL Ports	Harris-Stowe State University	251
3	93	Yaser Al Rawi	SMARD1 and CMT2S: Two diseases caused by mutations in IGHMBP2	University of Missouri	191
3	94	Zulymar García Sonera	Improving the Access and Inclusion in Karst Science with the Development of Virtual Cave Exploration	University of Puerto Rico at Arecibo	254
3	95	Bassil Ahmed	Investigating how Ighmbp2 mutations alter disease progression in mouse models of SMARD1 and CMT2S	University of Missouri	190

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

Poster Presentation Session 1: Friday, March 15 (10:00am – 12:00pm)
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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	96	Madeline Bonanno	Exploring Phylogenetic Methods for Reconstructing the Evolution of SARS-CoV-2	Tulane University	252
3	97	Mohammed Abu-Salah	Examining disease in NEFL+/E396K and NEFLE396K/E396K mouse models of CMT2E	University of Missouri, Columbia	189
3	98	Taylor Alvarez	Exploring Satellite Hacking Through Examining Accessibility, Feasibility, and Execution	Polk State College	249
3	99	Shawn Koohy	Generative Pre-Trained Physics-Informed Neural Networks toward meta-learning of parametric PDEs	University of Massachusetts Dartmouth, North Dartmouth, MA	170
3	101	Darsh Gandhi	Uncertainty of Image Segmentation on Pulmonary Hemodynamics	University of Texas at Arlington	169
3	103	Melissa Ferreras	Modeling Marine Population Connectivity	University of the Virgin Islands	168
3	105	Beyonca Mitchell	Development of Machine Learning-Based Methods for Deep Behavioral Phenotyping during Sustain Attention Tasks in Mice	Georgia Institute of Technology	133
3	107	Maxwell Jiang	Implementing a Deep Learning Model using U-Net for Mountain Glacier Segmentation	Georgia Institute of Technology	132
3	108	Asia Rogers	Impact of Race and Sensitive Personalities on Insomnia in Collegiate Athletes	Bennett College	269
3	109	Alice LeTran	Protein Expression of Type I and Type II nNOS GABAergic Inhibitory Neuron in the Neocortex	Tennessee Technological University	198

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	111	Ian Andrés Mercado Suárez	The role of Slowpoke in epigenetic mechanisms of alcohol induced tolerance in Drosophila	Universidad de Puerto Rico Recinto de Rio Piedras	199
3	113	Ricardo A. Rodriguez Arriaga	LONG-TERM EFFECT OF EARLY LIFE STRESS IN CAENORHABDITIS ELEGANS: EXERCISE AS A THERAPEUTIC STRATEGY	Pontifical Catholic University of Puerto Rico	200
3	115	Ryan Hedger	Saffron Decreased Hippocampus Tumor Factor-alpha and Alters Novel Object Recognition in a Mouse Model of Chronic Inflammation	Morgan State University	201
3	117	Lafaith Stevenson	Assessing expression of the Parkinson's Disease risk gene CD38 in aging mouse brain	Lawson State Community College	202
3	119	Angel Nyaga	Suit Up: The Archetypes of Leadership that Allow Black and Latinx Engineers to Succeed	Carnegie Mellon University	215
3	121	Manuelene Deigh	Association between Memory Performance Weekday Cannabis Use in Undergraduate Students	Virginia State University	216
3	123	Ahmed Ebada	Air Pollution, Asthma, and Educational Outcomes as a Reflection of Systemic Racism in the Greater St. Louis Metropolitan Area	University of Missouri-Columbia	217
3	125	Princess Johanna Eusantos	Economic Spending and Health Inadequacies among Unhoused Populations	Skyline College	218
3	127	Azariza Jack	Attitudes On The Flu Vaccine Uptake Among African Americans	Dillard University	219

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

Poster Presentation Session 1: Friday, March 15 (10:00am – 12:00pm)
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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	129	Ayanna Reid	Association Between Cultural Exploration and Discrimination on Stress	Virginia State University	220
3	131	Morgan West	PSA SCREENING AND VACCINATION INTAKE: IS THERE AN ASSOCIATION?	Talladega College	221
3	133	Savannah White	Food for Thought: The Relationship between Food Security and Mental Health	University of Mississippi	222
3	135	Jasmyn Walker	The Ability of Coping Strategies to Predict Stress, Anxiety, and Depression in College Students	Virginia State University	223
3	137	Brenden Henley	Electromyography Interface	Oakwood University	245
3	139	Kennedy Whitfield	Investigation of Thermal Properties of Walnut Shell Reinforced Polymer Composite	Southern University A&M College	242
3	140	Amehja Williams	Developing An Algorithm for Runtime Gameplay Adjustments in A Mobile Cognitive Assessment	University of Pennsylvania	247
3	141	Cailey Varnell	Creating an Artificial Muscle Using Woven Shape Memory Alloy Wires For Use in a Soft Wearable Pediatric Exosuit	Austin College	241
3	143	Sayre Tillery	Long-term Stable, Binary-phased pH Sensor for Continuous Cell Culture Monitoring	University of Oklahoma	240
3	145	Keegan Phayden Suero	Nanoscale Gold Beating: Transformation of 0D/1D Nanoparticles to 2D Morphologies	University of South Florida	239
3	147	Abilene Roberts	Optimizing Spinal Human RosetteArrays™ for High Throughput Neurodevelopmental Screening	University of Florida	237

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

3	149	Nikafareed Papari	Using 3D Printing Technology to Build Economical Prosthetics	University of Texas at Austin	236
3	151	Zachary A. Miller	Microfluidics Technology for Analysis of Cell Surface Biomarkers	University of Pittsburgh	235
3	153	Angileena Mathura	Optimizing Large Polyacrylamide Hydrogels for High-Yield Cell Culture	The City College of New York	233
3	155	Neha Jayarajan	Extraction and Purification of Extracellular Vesicles from Porcine Tissue and Fetal Bovine Serum	The University of Texas at Austin	230
3	157	Dionna Butts	Optimizing Energy Efficiency with Advanced Electrochromic Device Fabrication and Enhancement	Norfolk State University	227
3	159	Alana Benally	Current versus optimal Laplacian estimates for t-Lead concentric ring electrodes via finite elements method modeling.	Dine College	226
3	161	Nicholas Barlow	3-D Printed Scaffolds for Renal Tissue Regeneration	Alabama State University	225
3	163	Nyah Evans	Mental Health and Substance Use Among Adults in Mississippi	Jackson State University	224
4	110	Jada Iwuoha	Electric Vehicles Crashworthiness and Analysis of Collision Trends	University of Maryland Baltimore County	246
4	112	Lailah Collins	Supercritical Fluid Extraction	Southern University A&M College	244

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

4	114	Chloe Yoder	Investigating Nebraska's Technical Capacity to Treat PFAS in Drinking Water	Manchester University	243
4	116	Stefan Robinson	Quantum Sensing of Magnetic Fields	Virginia State University	238
4	118	Damaris Mendez	Artificial Intelligence for Infrastructure Management: A case study in concrete strength prediction	University of Puerto Rico - Mayaguez	234
4	120	Shivani Karanth	INVESTIGATING THE IMPACT OF IMAGE PROPERTIES ON OBJECT DETECTION PERFORMANCE IN AUGMENTED REALITY SCENARIOS	North Carolina State University	232
4	122	Thomas Kalach	A Charger for an Organic Edible Rechargeable Battery	University of South Florida	231
4	124	Paul Dixon	Conceptual design internship at the airworthiness sustainment branch of the Coast Guard	Elizabeth City State University	229
4	126	Josué A. Dieppa Ortiz	Building Resiliency: Contextualized Solutions Against Combined Natural Disasters in Puerto Rico	University of Puerto Rico, Mayagüez Campus	228
4	128	Destiny Crawford	Investigating Oncogenic Histone H3G34 Mutants in the Context of DNA Damage Using a Budding Yeast Model	Center for Biotechnology, Fort Valley State University, GA	64
4	130	Ariel Wright	Vitamin D Nutritional Status of Black/African American College Students	Morgan State University	57

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

4	132	Matthew Martinez	Investigating Conserved Gene Function Between <i>Caenorhabditis elegans</i> and <i>Pristionchus pacificus</i>	California State University Northridge	31
4	134	Anaya Arnold	In vitro Plant Regeneration and Gene Transfer using <i>Agrobacterium</i> transformation in Hemp (<i>Cannabis sativa</i> L.)	Fort Valley State University	7
4	136	Adrian Taranto	Hydrogen Peroxide and Hydrocortisone Stress Effects Brain-Derived Neurotrophic Factor (BDNF) Production in Human Neuroblastoma Cells	Livingstone College	81
4	142	Dalayah Brown	<i>Melia azedarach</i> and Its Endosymbionts	Bowie State University	10
4	144	Valdel Lekane Tedjouteu	Determination of Amino Acids profile and minerals present in cassava leaves of selected varieties in Kenya.	Bowie State University	27
4	146	Jazzmine Meekie	Intercropping Study to Facilitate Increased Food Production	Harris -Stowe State University	33
4	148	Ophilia Salubi	Influence of Various Drying Methods on the Anti-nutrient Properties of Powdered Beetroot (<i>Beta vulgaris</i>) in Kenya.	Bowie State University	42
4	150	Sabriya Seid	Enhancing Pearl Millet and Proso Millet Growth and Nutritional Value through Optimized Fertilizer Management and Legume Blending for Improved Food Formulas	Loyola Marymount University	43
4	152	JACQUELINE HENDERSON	Optimizing Tissue Culture Protocols for Wisconsin Fast Plants (<i>Brassica rapa</i>): A Comparative Study of Green and Purple Stigma Variants"	Elizabeth City State University	73

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.

2024 ERN Conference in STEM
 Washington, D.C. – March 14-16
 901 Massachusetts Ave NW, Washington, DC 20001
 Undergraduate Poster Presentation Schedule

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 Poster Presentation Session 2: Friday, March 15 (4:00pm – 6:30pm)
 Poster Presentation Session 3: Saturday, March 16 (8:00am – 10:30am)
 Poster Presentation Session 4: Saturday, March 16 (11:00am – 12:30pm)

4	154	Aubree Mitchell	Water Conservation Using Sunflowers as an Indicator of Drought Stress	Harris-Stowe State University	76
4	156	Abigail Jean Alfonso	Combating Dental Disparities within Underserved Populations	Skyline College	5
4	158	Genesis Jackson	Feasibility OF Flow Mediated Dilation Measurements In 5-Year-Old Kids	University of Arkansas at Pine Bluff	21
4	160	Insia Kizilbash	Research Evaluating Vagal Excitation and Anatomical Linkages (REVEAL) on Vagal Nerve Stimulation	University of Minnesota Twin Cities	25
4	162	Amira Turner	Average resting metabolic rate (RMR) in neonatal pond turtles of various species.	Virginia State University	49
4	164	Morgan Williams	Mechanisms of ADAM17 activation and mediated impairment of insulin signaling in endothelial cells	University of Missouri	53

*Presentation schedule is listed in order of sessions.

Co-hosted by the National Science Foundation and the American Association for the Advancement of Science.