

SESSION A: 9:15 – 10:45 AM, RWH 102

SESSION B: 9:15 – 10:40 AM, RWH 105

09:15	<p><b>Rahim Khan</b> RISE Farmingdale State University Dr. Pal Mailga <i>Development of a Routine Protocol for Chloroplast Transformation from Leaf Tissue in the Model Plant Arabidopsis thaliana</i></p>	<p><b>Taylor Sullivan</b> Adv Materials University of Texas-Austin Dr. Haoran Zhang <i>Examination of the Construction and Screening of Amino Acid Sensor Mutants</i></p>
09:22	<p><b>Aimee Straka</b> CB Virginia Polytech Inst St U Dr. Li Cai <i>Viral Delivery for Gene Therapy in Spinal Cord Injuries: Determining Tropism for Neural Stem and Progenitor Cells</i></p>	<p><b>Liz Cortes</b> RISE/ Waksman CUNY Borough Manhattan CC Dr. Andrea Gallovoti <i>Enhancing grain-related traits by elevating ZmWUS1 gene expression</i></p>
09:29	<p><b>Caylee Brown</b> RISE/SURF Univ Maryland Baltimore Co Dr. Morgan James <i>Exploring the Role of Microglia in Bisphenol-A Induced Dysfunction of the Orexin System in Prepubescent Mice</i></p>	<p><b>Zacchaeus Wallace</b> CB Univ Southern Mississippi Dr. David Shreiber <i>Using Patient-Derived Samples to Analyze the Correlation Between Peritoneal Stiffness and Ovarian Cancer Metastasis</i></p>
09:36	<p><b>Giancarlo Solano</b> Adv Materials Farmingdale State University Dr. Deirdre O'Carroll <i>Fabrication and Investigation of Inverted Organic Photovoltaic Cells</i></p>	<p><b>Nacala Gadsden</b> RISE/SURF Lehman College Dr. Stapleton <i>Impairment of Placental Efficiency in Rats Exposed to Micro-Nanoplastics During Gestation</i></p>
09:43	<p><b>Santiago Blaumann</b> RISE/PDB Cornell University Dr. Dennis Piehl <i>Developing Tools in Python to Support Bioinformatics Research</i></p>	<p><b>Isabel Meléndez Morales</b> RISE Univ Puerto Rico Mayaguez Dr. Darrin York <i>Solution dynamical ensemble of the active state of 8-17 DNzyme in the presence of Mg<sup>+2</sup></i></p>
09:50	<p><b>Diego Jimenez</b> Adv Materials Univ Puerto Rico Mayaguez</p>	<p><b>Alessia Venturi</b> RISE</p>

	<p>Dr. Ryan Sills <i>Strengthening of Al-Cu Alloys with Plate-Like Precipitates via Orowan Looping</i></p>	<p>Univ Florida Dr. Aaron Mazzeo <i>Tuning Paper-based Sensor Porosity for Small Protein Detection</i></p>
09:57	<p><b>Wyatt Read</b> RISE Southern Utah University Dr. Shana Cole <i>Perceptions of Well-Being Based on Balance and Gender</i></p>	<p><b>Gigi Lin</b> RISE/PDB CUNY Hunter College Dr. Wei Dai <i>Utilizing Multidisciplinary Approaches in Structural Biology to Elucidate the 3D Architecture and Molecular Sociology of Fungal Plasma Membrane Proteins</i></p>
10:04	<p><b>Jenny Cruz</b> RISE Kean University Dr. Nicole Fahrenfeld <i>A Microplastic Puzzle: Stormwater and a Possible Secondary Source</i></p>	<p><b>Shauna Kearney</b> Adv Materials Univ Maryland Baltimore Co Dr. Lisa Klein <i>Phase Change Materials for Thermal Insulation</i></p>
10:11	<p><b>Patrick Martins</b> CB Kean University Dr. Adam Gormley <i>Development of a Fluorescence-Based Technique to Screen for Single-Chain Nanoparticles that mimics Cell Signaling</i></p>	<p><b>Shaun Montoya</b> CB Montclair State University Dr. Valerie Tutwiler <i>Influence of Fibrin Cross-linking on the Rupture Resistance of Blood Clots</i></p>
10:18	<p><b>Sophie Anderson</b> Adv Materials Vassar College Dr. Gregory Dignon <i>Development of Computational Methods to Predict Partitioning of GFP into FG Nucleoporin Condensates</i></p>	<p><b>Kyra Harris</b> RISE Wayne State University Dr. Jessica Hamilton <i>Identifying the Role of Cyberbullying in Interpersonal Risk Factors for Depression and Suicide: Social Support as a Buffer</i></p>
10:25	<p><b>Paola Garay</b> RISE Univ Puerto Rico Mayaguez Dr. Jeff Boyd <i>Staphylococcus aureus iron usage: Characterization of a novel antibiotic target</i></p>	<p><b>Imani Birchett</b> Adv Materials Hudson Co Community College Dr. Meenakshi Dutt <i>Automated Design of Materials with Targeted Properties</i></p>
10:32	<p><b>Janette Arellano</b> RISE/ Waksman CUNY Brooklyn College</p>	<p><b>Cierra Faries</b> RISE Delaware State University</p>

	<p>Dr. Kenneth Irvine  <i>Beyond Boundaries: Exploring Notch Intracellular Domains (ICD) in Dorsal-Ventral ( DV) Compartment Determination</i></p>	<p>Dr. Wendie Cohick  <i>Identification of Stem-like/Progenitor Cells in MMTV-Wnt1 Transgenic Mice</i></p>
10:39	<p><b>Carlotta Abascal</b>  RISE  Wellesley College  Dr. Jenny Wang  <i>Trustworthy Technology: Do five- and six-year-olds trust digital devices and predict them to be accurate?</i></p>	
<p><b>Networking Intermission and Refreshments</b></p>		
<p>SESSION C: 11:10 am–12:35 pm, RWH 102      SESSION D: 11:10 am – 12:40 pm, RWH 105</p>		
11:10	<p><b>Grace Solomon</b>  CB  Drew University  Dr. Nada Boustany  <i>Examining the Relationship Between Cytoskeletal Tension and Cell Migration with a Vinculin Tension Probe</i></p>	<p><b>Rusham Bhatt</b>  RISE/PDB  Univ Maryland Baltimore Co  Dr. Stephen K. Burley  <i>Enabling Computational Biology Research Using Python-Based Applications</i></p>
11:17	<p><b>Erica Acox</b>  RISE/SURF  Delaware State University  Dr. Lauren Aleksunes  <i>The Effect of Genetic Polymorphisms of Efflux Transporters on Heavy Metal Toxicity</i></p>	<p><b>Yeissette Burgos Amengual</b>  RISE  Univ Puerto Rico Mayaguez  Dr. Siobain Duffy  <i>A Revised Phylogeny of the Begomovirus Coat Protein</i></p>
11:24	<p><b>Jose Hoyos Sanchez</b>  RISE  University of Central Florida  Dr. Anand Sarwate  <i>Federated Low Structure Rank Tensor Regression</i></p>	<p><b>Angel Beebe</b>  RISE/SURF  Smith College  Dr. Brian Buckley  <i>Tracking Environmental Toxic Exposure Using Silicone Wristbands as Passive Dosimeters</i></p>
11:31	<p><b>Bridget Linders</b>  Adv Materials  Univ Colorado Boulder</p>	<p><b>Mariam Haroun</b>  RISE  Caldwell College</p>

	<p>Dr. Benjamin Schuster <i>Specific Recruitment of Nanoparticles into Protein Condensates through Streptavidin-Biotin Binding</i></p>	<p>Dr. Zheng Shi <i>Studying the Effects of DAT-mediated Vesicles on the Phase Separation of <math>\alpha</math>-Synuclein</i></p>
11:38	<p><b>Madison Brown</b> CB Wake Forest University Dr. Joseph W. Freeman <i>3D bioprinted bovine myoblast constructs for the creation of lab-grown meat</i></p>	<p><b>Lauren Wenzl</b> CB Bucknell University Dr. Rick Cohen <i>Enhancing Lab-Grown Meat Texture: Chemical and Electrical Stimulation of Myoblasts for Differentiation and Muscle Fiber Alignment</i></p>
11:45	<p><b>Spencer Corn</b> Adv Materials Monmouth College II Dr. Richard Riman <i>Production &amp; Analysis of the Mechanical Properties of a CaSiO<sub>3</sub>-Polypropylene Composite</i></p>	<p><b>Angel Hernandez</b> CB University Of Arizona Dr. Maribel Vazquez <i>Comparing the Effects of Chemical and Electrochemical Gradients on Retinal Progenitor Cell Migration in a Microfluidic Device</i></p>
11:52	<p><b>Armando Rios</b> RISE/SURF Univ Puerto Rico Rio Piedras Dr. Jeffrey Laskin <i>Impacts of Cadmium on Placental BH4 Cofactors</i></p>	<p><b>Taylor Rossiter</b> RISE /Waksman York Coll Of Pa Dr. Dong <i>SOSEKI Protein Family's Role During Asymmetrical Division of the Stomata</i></p>
11:59	<p><b>Oliver Baumeyer</b> RISE Stockton University Dr. Kate M. Waldie <i>Electrochemical Reduction of Carbonyls for the Synthesis of Alcohols</i></p>	<p><b>Grace Anderson</b> RISE East Tennessee State University Dr. Aaron Mazzeo <i>The Effect of Porosity on Paper-Based Biosensors</i></p>
12:06	<p><b>William Raeter</b> CB Union College Dr. Jeff Zahn <i>Modeling neural circuitry using brain on a chip devices in conjunction with cerebral organoids</i></p>	<p><b>Chase Bebo</b> RISE Navajo Technical University Dr. Sean Kinney <i>Mapping the distribution of geogenic contaminants in bedrock from Colorado Plateau cores using continuous X-ray Fluorescence spectroscopy</i></p>

12:13	<p><b>Nicolette Nabiryo</b> RISE Caldwell University Dr. Martha Soto <i>Identifying Candidate GEFs that activate CEd-10/Rac1 during Embryonic Morphogenesis</i></p>	<p><b>Jenna Pirrello</b> Adv Materials Ohio State Univ Columbus Dr. Ashutosh Goel <i>Impact of boron on the sintering behavior of alkali-free bioactive glasses</i></p>
12:20	<p><b>Lizbeilyn Ozoria</b> RISE/ Waksman Stockton University Dr. Kim Mckim <i>Screening for Novel Meiosis Genes</i></p>	<p><b>Caroline Hurley</b> RISE Emerson College Dr. Steven R. Brechin <i>The Fight to Save Agriculture and Build a New Food System in Coastal Communities of Northern Michigan</i></p>
12:27	<p><b>Hannah Gleckler</b> RISE Ohio State University-Main Campus Dr. Charles Dismukes <i>Influence of Fe-doping on Ni<sub>2</sub>P for the CO<sub>2</sub> Reduction Reaction</i></p>	<p><b>Thong Pham</b> RISE Univ Maryland College Park Dr. Yuwei Gu <i>Synthesizing an Amide Bond Containing Polymer using Ring-Opening Polymerization</i></p>
12:34		<p><b>Ryan Jaworski</b> Adv Materials Fairfield University Dr. Alexander Neimark <i>Adsorption of Lung Surfactants on the Receptor Binding Domain of the SARS-CoV-2 Spike Protein</i></p>

LUNCH for SCHOLARS, FACULTY MENTORS, and NEAR-PEER MENTORS

12:45 – 1:45 PM

Busch Student Center International Lounge