RISE & REU Virtual Symposium - 7/29/21 - Speakers & Titles with links to presentations

Click on the title of each student's project to link to poster, video presentation, and abstract.

	Key to RISE Partner Programs							
		Cellular Bioengineering REU		Advanced Materials REU				
		GET-UP (Green Energy Technology)		RISE/GSEF				
		RISE		RISE/INSPIRE				
		RISE/PDB		IMSD				
		RISE/SURF		Physics & AstronomyREU				
Session 1	**2:30-3:05 pm**							
Moderator	David Shreiber	Kimberly Cook-Chennault	Jerry Langer	Maribel Vazquez	Jonathon Walsh	Geraldine Cochran	Kirsten Allen	Valerie Tutwiler
Zoom link:	https://rutgers.zoom.us/my/shreiber?pwd=bVYrVUpnaFZJUXNsSkp6alVSd3VRQT09	https://rutgers.zoom.us/my/cookchen?pwd=OVRqVTRYd0FxTEtyUjZyZmpDbW9sdz09	https://rutgers.zoom.us/my/langer?pwd=Y2hKbGcza29oOWJ2Q3lwWURKTFBtZz09	https://rutgers.zoom.us/my/mv582?pwd=aUlHMUFud	https://rutgers.zoom.us/j/91328037346?pwd=cjFhLzRCZVJ6U21la25oK2xjdnU2Zz09	https://rutgers.zoom.us/j/96686781251?pwd=bnlKaWk5N24zUHo4VHBLV282aEpxQT09	https://rutgers.zoom.us/j/97578832973?pwd=T3lnNFZ2bmZhdFYrMVZwR1dhZTJ5Zz09	https://rutgers.zoom.us/j/93621455514?pwd=cmlXTUMyZUJYNVhaTXBFTmxDQko4Zz09
	Panel A	**Panel B**	**Panel C**	**Panel D**	**Panel E**	**Panel F**	**Panel G**	**Innovation & Entrepreneurship**
1	**1 Rachael-Lee Headman**	**5 Agnes Rios Delgado**	**9 Sajeela Rehman**	**13 Andrea Campbell**	**17 David Sabillón**	**21 Maya Rogers**	**25 Zuul Woodson**	
	Just a Little Trash Talk Between Neurons	Empirical fitting of photosynthetic Chlorophyll Fluorescence phases to extract kinetic rates of electron	Maintenance of a Transgenic Mouse Colony	Neuron Survival after Traumatic Brain Injury: The role of Adenosine Kinase	How to Protect ABS Plastics from UV Degradation with Sol-Gel-Coated Slides	Mapping Misperceptions: Ideological Threat Shapes Visual Representations of Public Health Organizations	In-situ Hybridization of Preproorexin and Prodynorphin mRNA in Sprague-Dawley Rats Following Chronic Intermittent Cocaine Self-	
2	**2 Zeeta Abubakar**	**6 Shreya Karthikeyan**	**10 Liam Knowles**	**14 Charles Williams**	**18 Mariam Abass**	**22 Nicole Colon-Bosques**	**26 Amirbahador Shojaee**	**Cellular Bioengineering students**
	Differential Scanning Fluorimetry to Assess Thermostability of Single Protein Nanoparticles	Discovering Lyman Alpha Emitting Galaxies at a Redshift of 4.5	Novel Sigma 1 Receptor Antagonist Reduces Binge Eating In Obese Female Rats	Retinoid and Energy Homeostasis in the Hearts of β-carotene 9',10'oxygenase (BCO2) Knockout Male Mice	Identifying Aurora Kinase C Binding Partner (s) in Mouse Oocytes	Brain Signals in the Hypothalamus During Cocaine Addiction	Root Cause Analysis of Data Discrepancy in an Eye-Tracking Study of an Engineering Educational Game	
3	**3 Frederick Jackson**	**7 Carolina Arroyo Roldan**	**11 Taylor Bridgeforth**	**15 Mary Agnes Balogun**	**19 Kayla Martins**	**23 Tenise Bowman**	**27 Isabel Powers**	
	Optimizing HI Stacking with Optical Priors	Development Human-AI Systems Lab	Roles of Estrogen on Gliotic Cell Responses to Neovascular Retinopathies	Understanding the Active Site of the SARS-CoV-2 Papain-like Proteinase (PLPro)	The Enhancing Effects of Surprise on Infants' Learning in a Virtual Environment	A Mechanism of Adenosine-Induced Respiratory Suppression Observed After Acute Ethanol Ingestion	Modeling the PhoPQ Signaling Pathway in Salmonella	
4	**4 Dylan Santa**	**8 Mickayla Bacorn**	**12 Amanda Eng**	**16 Dylan Santiago-Morales**	**20 Caitlin Colicchio**	**24 Victoria "Vietta" Kuntz**	**28 Nirali Trivedi**	
	Searching for Stability: Mechanisms of Enhanced Phosphorescent Light-Emitting Devices	Biochemical Analysis of the Active Site Evolution for SARS-CoV-2 and Other Coronaviruses	Identifying Stream Stars with Machine Learning	Digital Twin Modeling (DTM) of a Type GX Static Mixer for Continuous Manufacturing Processes	Development of Recording Microelectrodes for Characterizing Neural Potentials	CWoLa: Using Machine Learning to Detect Anomalies in Accelerator Data	Role of Stearoyl-CoA Desaturase-2 in Systemic Lipid Metabolism	
Session 2	**3:15-3:50 pm**							
Moderator	Laina Lockett	Christine Zardecki	Beatrice Haimovich	Jessica Johnson	Nasir Javed	Gary Brewer	Kirsten Allen	Valerie Tutwiler
Zoom link	https://rutgers.zoom.us/j/95549073347?pwd=Zmo4QitKeWRheDVnN01KcnAyQ0lUUT09	https://rutgers.zoom.us/j/99805937746?pwd=SlU3RXlFRHo0bzFpQy9ib3pMWnlXQT09	https://rutgers.zoom.us/j/4407272348?pwd=czJxTnFjZEM2RFFYUlhSLytLVkgwZz09	https://rutgers.zoom.us/j/91500440308?pwd=UGlGN1dlUGFNUXVjbHFvbW5QTXhzZz09	https://rutgers.zoom.us/j/92058567284?pwd=VFdiZ05tYWtpM0YzKytia2VkaE9GZz09	https://rutgers.zoom.us/j/98979733500?pwd=RWV1TDJyM2FxQlV0UnpxU1g3cm1hZz09	https://rutgers.zoom.us/j/96827690986?pwd=Rk1NUHFWM1M3dkRYOGZLZ3dlTEFZQT09	https://rutgers.zoom.us/j/93621455514?pwd=cmlXTUMyZUJYNVhaTXBFTmxDQko4Zz09
	Panel H	**Panel I**	**Panel J**	**Panel K**	**Panel L**	**Panel M**	**Panel N**	**Innovation & Entrepreneurship**
1	**29 Collin DeMan**	**33 Fabian Amurrio**	**37 Dhruv Champaneri**	**41 Ariana Guzman**	**45 Adam Kneebone**	**49 Eduardo Figueroa-Velazquez**	**53 Annalisa Montemarano**	
	Development of a Mathematical Model to Predict the Diffusion Characteristics of PEG Molecules in Agar Microbeads	Microplastic Occurrence for Drinking Water: A Critical Literature Review	Regulation of Microsomal Triglyceride Transfer Protein in Mouse Intestinal Mucosa	Migration, Identity, and Language in Igiaba Scego's Short Story 'Sausages'	The Effect of Transposon Transcription on R-loop Enrichment in *D. Melanogaster*	Controlling Crack Jumping in Porous Brittle Materials	Modulation of Microglia in Response to Fentanyl Self-Administration in Rats	
2	**30 Laurian Rosa-Rosa**	**82 Ghosal Mehul**	**38 Sabrina Salas**	**42 Orlando Conde Del Moral**	**46 Natalie Lopés Velasco**	**50 Ratchell Sadovnik**	**54 Ashley Hart**	**Cellular Bioengineering students**
	Land Use Contestations Over State-led Efforts to Privatize Beaches in Puerto Rico Post-María	Finding a General Solution to Isolating Correlated Noise in Test Bench for LHC Upgrades	I'm Not Black, I'm Dominican: The Racial Politics of Dominicans and Black Lives Matter Protests of 2020	Synthesis of Potentially Removable and Recyclable Phosphines for Mitsunobu Reactions	Understanding Therapeutic Proteins and their Instabilities in the Pharmaceutical Industry	Effects Of Alpha-Klotho Isoform Overexpression On Mitochondrial Health In Neuro2a Cells	Modeling Adversarial Channels for Quantum Communication	
3	**31 Midori Flores**	**35 Cassandra Olivas**	**39 Kevin Kowalski**	**43 Sohaib Hassan**	**47 Keyonna Murray**	**51 Victoria Diaz**	**55 Catalina Abusada**	
	Solving the Mystery of Forever Chemical Toxicities	Using Data Mining to Identify Variations within the Proteases in Coronaviridae	Identifying Metrics to Quantify In Vitro Neuronal Injury	Epithelium and Mesenchyme Crosstalk During Tumorigenesis	Documenting the Understanding of Constructionism in Contemporary Racial Discourse	Metal-Organic Frameworks (MOFs) as Efficient Photocatalysts for Water Splitting	Spectroscopic Quantification of Cu2+ Ions from Mesoporous Silica and their Antimicrobial Properties	
4	**32 Shalinka Gunatilaka**	**36 Melissa Garcia**	**40 Taina Moore**	**44 Amy Wu**	**48 Kyle Salamone**	**52 Abdessamad Ramazaoui**	**56 Justin Deutsch**	
	Carbon Capture and Storage via Mineralization Reactions	Biogeochemical Interactions Between Basaltic Crust and Marine Sediments in Sub-seafloor Reservoirs	The Therapeutic Potential of Nitrated Fatty Acids in Acute Lung Injury	Bioinformatics and 3D Structural Analysis of Coronavirus Main Protease Active Site	Studies of Interaction Model Dependence in Neutrino Oscillation Measurements	The Association between Neronal Excitability and Potassium Channels	Role of Location and Spatial Sorting in Morphology of Atlantic Croaker Larvae (Micropogonias undulatus)	
Session 3	**4:00-4:45 pm**							
Moderator	Laina Lockett	Kirsten Allen	Geraldine Cochran	Jessica Johnson	Nasir Javed	Jerry Langer	Valerie Tutwiler	
Zoom link:	https://rutgers.zoom.us/j/95991192245?pwd=Vnphejl2M0pMN04ybnpKNlh1VWJvZz09	https://rutgers.zoom.us/j/98914456319?pwd=WXJhRGs3VGROdGJKam1wNkxkSmJGQT09	https://rutgers.zoom.us/j/91327570204?pwd=MTNlSWtVdEpuZFQ3eG85NlZxa2ZUZz09	https://rutgers.zoom.us/j/93831620719?pwd=ZE5SU	https://rutgers.zoom.us/j/97278684813?pwd=ZW1laUZzWXg2RWlKVVlrMVRUbEtUUT09	https://rutgers.zoom.us/my/langer?pwd=Y2hKbGcza29oOWJ2Q3lwWURKTFBtZz09	https://rutgers.zoom.us/j/93621455514?pwd=cmlXTUMyZUJYNVhaTXBFTmxDQko4Zz09	
	Panel O	**Panel P**	**Panel Q**	**Panel R**	**Panel S**	**Panel T**	**Innovation & Entrepreneurship**	
1	**57 Paul Buttles**	**61 Kyla Smith**	**65 Kelly Reid**	**69 Hyeon Woo Kim**	**74 Taylor Hilton**	**78 Stacy Fortes**		
	Under Pressure: Strain-Tuning Properties of Quantum Materials	Cognitive Health of Ovary-Intact Postmenopausal Mice Fed High Fat Diets	Spinal Cord Injury AlterS Neural Stem Cell Properties in NG2 Cell Populations	Developing Methods of Assessing the Learning Outcomes of ♂Serious Games in Engineering Education♂	Computational Studies of Sorption of Gases Using Novel 3D Nano-porous Graphene Oxide	Extracting Rainfall Features Using Artificial Intelligence		
2	**58 Youssef Mohamed**	**62 Laura Morejon Perez**	**66 Joel Darryl Sop Tueam**	**70 Nicholas Doak**	**75 Tara Soltani**	**79 Hifsa Abbas**	**Cellular Bioengineering students**	
	Effectiveness of Polyelectrolyte Surfactant Nanoparticles in the Eradication of Bacterial Biofilms	Novel Inorganic Plastics Made from Sands: How and Why	Genome-wide RNAi Screen for Novel Meiotic Genes in Drosophila Melanogaster	Uncovering the Origins of Proteins: Dating Oxidoreductase Fold Evolution	Black, White, or Gray? The Relationship Between Race Essentialism and the Emergence of Mixed-Race Stereotypes	The Role of QueE Enzyme in Response to Oxidative Stress Reagents		
3	**59 Jarett Reyes George**	**63 Josue Grajeda**	**67 Abigaelle Nelson**	**71 Christina Williams**	**76 Mikayla Roach**	**80 Noah McAllister**		
	Nano-TiO2 Translocation and Deposition After Maternal Inhalation Exposure	Metallicity, Magnetism and Topology of Low dimensional Transition Metal Tellurides	Fatigue Testing of White Matter: Investigation of Axonal Injury	Understanding the Brain-to-Spinal Cord Oxytocin Circuit in the Mouse: Background & Methods	Visualizing Capillary Action in 3D Printed Bone Implants	Digital Image Processing for the Analysis of Spray Coated Porous Films		
4	**60 Manuela Velez Galindo**	**64 Joshua Ogunmefun**	**68 Filipa Costa**	**72 Timothy Honablew**	**77 Casey Li**	**81 Taniya Sood**		
	Inhibition of HDAC3 Modifies Gene Expression in the Event of Auditory Memory Formation	Determination of the Optimal Frequency Range for Cell Permeabilization	The Menstrual Cycle and Smoking: How the Follicular and Luteal Phases affect Emotional Regulation and Cigarette Demand	Two-Photon Exchange (TPE) in the MUSE Experiment	Design of a High Resolution Inverse Photoemission Spectrometer	Influence of Fibrinogen Concentration on Structure and Mechanics		
				73 Aparna Jayakumar				
				Ordering in Adsorbed Fluid Confined to Graphene Pores				