



SPRING 2021 SYMPOSIUM & EXPO VIRTUAL EDITION

SATURDAY - JUNE 5, 2021
3:00-5:00PM VIA ZOOM

Presentation Times & Zoom Breakout Room Assignments

Zoom Room	3:00	3:15	3:30	3:45	4:00	4:15	4:30
1	Synthesis of Neuro-active Rivastigmine and its Effects on Schizophrenia in C. Elegans (Njoo)	Pyrazole FTO Inhibitors (Brah)	Discovering the Quantum Advantage using Quantum Convolutional Neural Networks for Image Recognition (McMahan)	Total Synthesis of Psychrophillin F and Sansalvamide A (Njoo)	Hypoglycemic activity of Trigonella foenum-graecum in the C. elegans model (Renganthan)	Identification of Plant Growth Promoting Bacteria in LEAF Soil (Le)	Studying the biological mechanisms of andrographolide and a related analog through quantitative gene expression screens (Tallapaka)
2	Analyzing the sentiment of Joe Biden and Donald Trump transcripts (Johnson)	G-Quadruplex Binding (Brah)	Investigating the Effect of Curcumin on Alpha-synuclein Aggregation in Parkinson's Disease Using a C. Elegans Animal Model (Truong)	The Application of the Shapley Value from Game Theory to Classify Cells as Malignant or Benign (McMahan)	The Effect of Amyloid Beta Aggregation on Associative Memory In Transgenic Alzheimer's Disease Models (Truong)	Investigating the Influence of Clozapine on Schizophrenic transgenic C. Elegans Models (Truong)	
3	Chemical Engineering (Yamamoto)	Google Vision Bias (Mui)	Synthesis of Benfotiamine Prodrug Derivatives and Their Diabetic Neuropathy Activity in C. Elegans Models (Renganathan)	Finding the Correlation Between Current Event Articles and the Price of Energy Stocks (McMahan)	Synthesis and Structure-Activity Relationship of 2-Substituted Benzimidazole KRAS Inhibitors (Clark)	Natural Product Polyphenol Inhibition of Amyloid-Beta Aggregation (Renganathan)	A Comprehensive Computational Modeling of Natural Bioenhancing Agents Docked to Transport Proteins to Enhance Bioavailability (Renganathan)
4	Strain-selective in vivo and in silico structure activity relationship (SAR) of N-acyl β -lactam broad spectrum antibiotics (Njoo)	Studying the effects of Paclitaxel on Cephalotaxine and Sulforaphane for improving bioavailability. (Renganathan)	Photorelease kinetics of aryl-substituted o-nitrobenzyl prodrug linkers towards reactivity-guided design of next-generation prodrugs (Njoo)	Biological Evaluation and In-silico Screening of a Novel Library of Eugenol Analogs as Potential Antimicrobial Ligands (Njoo)	Comparative singlet oxygen photosensitizer efficiency of berberine, rose bengal, and methylene blue by time course nuclear magnetic resonance (NMR) monitoring of a photochemical 4+2 cycloaddition endoperoxide formation (Njoo)	Analyzing and Optimizing the Molecular Interactions of Emodin for Protein Inhibition and Drug Delivery (Renganathan)	
5	Role of Piperine as a Bioenhancer in Thymoquinone Encapsulated Nanolipid Carriers (Renganthan)	Polyphenols (Suresh)	Emotion Classification (Johnson)	Machine Learning towards Drug Discovery (Downing/Njoo)	Effects of Curcumin On Known Protein Interactions in Human Cell Lines (Tallapaka)	Development and Structure-Activity Relationship (SAR) of Novel Benzimidazole KRAS Inhibitors (Brah)	G-Quadruplex Stabilization (Clark)
6	In Silico Screen of a Library of Carmofur Analogs as Potential Inhibitors of the SARS-CoV-2 Main Protease and its Variants Through Homology Modeling (Njoo)	Deuterated solvent effects in the kinetics and thermodynamics of keto-enol tautomerization of ethyl 4,4,4-trifluoroacetate (Njoo)	Data Mining for Potentially Habitable Exoplanets using the Habitability Index for Transiting Exoplanets (Downing)	Predicting Criminal Activity using AI/ML Techniques (McMahan)	Developing a Split-GFP Assay to Quantify the Endosomal Escape of Nanoparticles (Yamamoto)	Calcium Phosphate Assisted Chemical Modification of IgG (Yamamoto)	