

Physical Sciences Retreat
Wednesday, August 10th, 2022
CGRC Auditorium

8:15am – 9:00am	<i>Continental breakfast and coffee available</i>
9:00am - 9:10am	Opening Remarks- Jonathan Licht, M.D., UFHCC Director
Session 1: <i>Moderator: Zhongwu Guo, Ph.D. (10min + 5min Q&A each)</i>	
9:10am – 9:25am	Matthew Eddy, Ph.D., Assistant Professor, Department of Chemistry: <i>Biophysical Investigations of Signaling Proteins</i>
9:25am – 9:40am	Lina Cui, Ph.D., Associate Professor, Department of Medicinal Chemistry: <i>Synthetic Glycans in Molecular Imaging and Drug Discovery</i>
9:40am – 9:55am	Xin Tang, Ph.D., Assistant Professor, Department of Mechanical and Aerospace Engineering: <i>All-optical Interrogation of Cancer Mechanics and Drug Screening</i>
9:55am – 10:10am	Michael Harris, Ph.D., Professor, Department of Chemistry: <i>Structure, Function, and Inhibition of RNase P: An Essential Ribonucleoprotein Enzyme</i>
10:10am – 10:30am	<i>Coffee Break</i>
10:30am – 10:45am	W. Gregory Sawyer, Ph.D., Professor, Department of Mechanical & Aerospace Engineering: <i>Are Patient Explants a Promising Model for Personalized Cancer Treatment?</i>
10:45am – 11:00am	Gregory Hudalla, Ph.D., Associate Professor, Department of Biomedical Engineering: <i>Supramolecular Approaches for Localized Biotherapeutic Delivery</i>
11:00am – 11:15am	Guangrong Zheng, Ph.D., Associate Professor, Department of Medicinal Chemistry: <i>PROTAC Technology Offers Great Opportunities for Academic Drug Discovery</i>
Session 2: <i>Moderator: Rolf Renne, Ph.D. (10min + 5min Q&A each)</i>	
11:15am – 11:30am	Piyush Jain, Ph.D., Assistant Professor, Department of Chemical Engineering: <i>Engineered CRISPR/Cas Systems as Next-Generation Diagnostics</i>
11:30am – 11:45am	Meghan Ferrall-Fairbanks, Ph.D., Assistant Professor, Department of Biomedical Engineering: <i>Leveraging Tumor Ecology to Optimize Cancer Treatment</i>
11:45am – 12:00pm	Carlos Rinaldi-Ramos, Ph.D., Professor and Chair, Department of Chemical Engineering: <i>Tracking Nanoparticles and Cell Using Magnetic Particle Imaging</i>
12:00pm – 1:00pm	<i>Lunch in atrium</i>
1:00pm - 1:15pm	Jing Pan, Ph.D., Assistant Professor, Department of Mechanical and Aerospace Engineering: <i>Continuous Blood Biochemical Monitoring for Personalized Disease Management</i>
1:15pm – 1:30pm	Zhongwu Guo, Ph.D., Professor and Scott Chair, Department of Chemistry: <i>Carbohydrate-Based Therapeutic Cancer Vaccine</i>
1:30pm – 1:45pm	Carl Denard, Ph.D., Assistant Professor, Department of Chemical Engineering: <i>Redefining, Repurposing, and Reprogramming Post-Translational Modification Enzymes</i>
1:45pm – 2:00pm	Mei He, Ph.D., Assistant Professor, Department of Pharmaceuticals: <i>Extracellular Vesicle Enabled Precision Drug Delivery</i>
2:00pm	<i>Closing thoughts</i>