PROGRAM SCHEDULE
Thursday, August 1st, 2024
Morning Sessions

7:30am - 8:15am	*Continental Breakfast*
8:15am - 8:30am	*Welcome Remarks:* **Alexandros Makriyannis** **Provost David Madigan**
8:30am -	*Session 1:SUD Co-Morbidities* *Presider: Linda Dwoskin*
8:30am - 8:50am	**Robert W. Gould** Wake Forest University Investigating State-Dependent Effects of Opioids on Sleep
8:50am - 9:10am	**Andrew Riley** University of Illinois Chicago α3β4 Nicotinic Acetylcholine Receptors as a Target for Cocaine Use Disorder
9:10am - 9:30am	**Ryan Logan** University of Massachusetts, Chan Medical School Sleep and Circadian Rhythm Dysfunction in Opioid Use Disorder
9:30am - 9:50am	**Jun Zhu** University of South Carolina Identification Of Pyrimidine Structure-Based Compounds As Allosteric Ligands Of The Dopamine Transporter As Therapeutic Agents For Neurohiv With Concurrent Substance Abuse
9:50am - 10:00am	**William B. Lynch** Northeastern University Validating Zhx2 as a Quantitative Trait Gene Underlying Oxycodone Metabolite (Oxymorphone) Brain Concentration and Behavior: Insights From Brain Multi-Omics Analysis
10:00am - 10:30am	*Coffee Break*
10:30am -	*Session 2: Keynote Session* *Presider: Alexandros Makriyannis*
10:30am - 11:20am	*Keynote Address* **Kenner Rice** National Institute on Drug Abuse Combating the Opioid Epidemic: Vaccines, Potent Antagonists, Partial Agonists, and a New PET Ligand
11:20pm - 11:40am	**Mike Michaelides** NIDA Novel Mu Opioid Receptor Superagonists with Analgesic Efficacy and Low Adverse Effect Profile
11:40am - 12:00pm	**Patrick Rothwell** University of Minnesota Regulation of Exogenous Opioid Sensitivity through Modulation of Endogenous Opioid Signaling
12:00pm - 1:30pm	*Lunch*

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Afternoon Sessions

1:30pm -	*Session 3: Structural Biology and Computational Frontiers of SUD Targets* *Presider: Amy Newman*
1:30pm - 1:50pm	**Seva Katritch** USC Michelson Center Bridge Institute Giga-Scale Ligand Screening and Design: New Tools for Computer-Driven Drug Discovery
1:50 pm - 2:20pm	**Ron Dror** Stanford University Achieving Fine Control of Drug Target Function via Learning and Simulation of 3D Structure
2:20pm - 2:40pm	**Marta Filizola** Icahn School of Medicine Mount Sinai Harnessing Integrative Modeling and AI-Driven Insights for the Development of Safer Opioid Medications
2:40pm - 3:00pm	**Jens Meiler** Vanderbilt University Artificial Intelligence and Ultra-large Library Screening for the Discovery of Lead Molecules Targeting GPCRs in Substance Use Disorders
3:00pm – 3:20pm	**Javier Garcia Nafria** University of Zaragoza A Bitopic Agonist Bound to the Dopamine 3 Receptor Reveals a Selectivity Site
3:20pm - 3:40pm	**Cornelius Gati** USC Dornsife Structural basis of inverse agonism via inactive kappa opioid receptor: G protein complexes.
3:40pm - 4:10pm	*Coffee Break*
4:10pm-	*Session 4: Obesity* *Presider: Spiro Pavlopoulos*
4:10pm - 4:30pm	**Rohit Kulkarni** Harvard Medical School Perspective on GLP and Cannabinoid Pathways in Regulating Metabolism
4:30pm - 4:50pm	**John Salamone** University of Connecticut Effects of Peripherilly Acting CB1 Receptor Neutral Antagonists on Food Intake and Food Reinforced Behavior.