

All sessions take place on the 17th floor of East Village, Northeastern University

****Preliminary Schedule subject to change****

PROGRAM SCHEDULE

Friday, August 8th, 2025

Morning Sessions

7:30am - 8:45am	<i>Continental Breakfast</i>
8:45am - 9:00am	<i>Welcome Remarks: Provost David Luzzi</i>
	<i>Session 5: Presider:</i>
9:00am - 9:20am	Juan Gomez NIDA Mu Opioid Receptor Superagonists that Produce Analgesia with Minimal Adverse Effects
9:20am - 9:40am	Amy Janes NIDA Nicotine and Mental Health.
9:40am - 10:00am	Pascal Kaeser Harvard Medical School Mechanisms and Roles of Striatal Neuromodulatory Transmission
10:00am - 10:20am	Christin Sander Massachusetts General Hospital, Harvard Medical School Amphetamine Drives Distinct In Vivo Trafficking of Dopamine D1 and D2 Receptors: Insights from Simultaneous PET/fMRI
10:20am - 10:30am	Renee Nosko NIDA-IRP Structure-Based Cariprazine Modifications to Improve Dopamine D3 Receptor (D3R) Selectivity
10:30am - 11:00am	<i>Coffee Break</i>
11:00am -	<i>Session 6: Presider:</i>
11:00am - 11:45am	Bryan Roth The University of North Carolina at Chapel Hill Drug Discovery for GPCR Targets
11:45am - 11:55am	Marco Pravetoni University of Washington Vaccines and Antibody-Based Strategies to Treat Opioid Use Disorders and Overdose
11:55am- 12:15pm	Raj Desai Harvard Medical School Preclinical Evaluation of the Fentanyl-Targeting Monoclonal Antibody CSX-1004
12:15pm - 12:35pm	Michael Palfreyman & Alex Nivorozhkin PalfreymanBioPharm Advisors & Cybin The Potential of Tryptamine Psychedelics to Treat Substance Use Disorders
12:35pm- 12:45pm	Sophia A. Miracle Center for Drug Discovery Enhanced Naloxone-Induced Conditioned Place Aversion Following High-Dose Oxycodone in Zhx2 Knockout Mice

All sessions take place on the 17th floor of East Village, Northeastern University

****Preliminary Schedule subject to change****

PROGRAM SCHEDULE

Friday, August 8th, 2025

Afternoon Sessions

12:45pm - 2:00pm	<i>Lunch</i>
2:00pm -	<i>Session 7: Presider:</i>
2:00pm - 2:20pm	Benjamin Brown Northeastern University A Generalizable Deep Learning Framework for Protein-Ligand Affinity Ranking
2:20pm - 2:40pm	Lei Xie Center for Drug Discovery Advancing Programmable Human Digital Twins for Substance Use Disorder Drug Discovery
2:40pm - 2:50pm	Richard Anderson Symmetric Computing Search for a Non-opioid Therapeutic Agent for Treating Long-term Opioid Use Disorder
2:50pm - 3:10pm	Martin Kaczocha Stony Brook University Development of FABP5 Inhibitors as Novel Analgesics
3:10 pm- 3:30pm	M. Imad Damaj Virginia Commonwealth University Astrocyte Elevated Gene-1 (AEG-1), a Novel Transcriptional Regulator, Mediates an Anti-opioid System
3:30pm 4:00pm	<i>Coffee Break</i>
4:00pm -	<i>Session 8: Presider:</i>
4:00pm- 4:20pm	Marcus Weera Tufts Neural Mechanisms of Heightened Anxiety-Like Behavior and Alcohol Drinking After Traumatic Stress
4:20pm- 4:30pm	Faith E. Latherow The University of Toledo In vivo Photoaffinity Labeling as an Approach to Visualize and Identify Protein Targets of Synthetic Psychoactive Cathinones
4:30pm- 4:50pm	Dai Lu Texas A&M University The Challenges in Translation of Positive Allosteric Modulators of CB1 Receptor into Non-addictive Pain Suppression Medicine
4:50pm - 5:00pm	<i>Closing Remarks</i>