

Register & Save the Date: September 10 & 11, 2025

First Annual Applied Biophysics Forum in Drug Delivery - US Edition

Cambridge Innovation Ctr., Cambridge, MA, USA



Agenda | Speaker Line up

DAY 1 Sept 10 10:00AM – 4:00PM	Speaker
Registration (Refreshment will be served)	
First Session	
Welcome from MP	
Degradable cyclic amino alcohol ionizable lipids as vectors for potent influenza mRNA vaccines	Arnab Rubra
The importance of in-process LNP characterization via DLS	Bunjum Kim
Panel Discussion Break	Kuo-Chih Shih
Lunch - Network and Poster	All
Second Session	
Recent Progress of LNP Research Field	Jonathan Mehtala
A Modular and Versatile Targeted LNP Delivery Platform for Extra-hepatic RNA Therapeutics	Justin Fang
Combined experimental approaches with SAXS to probe structure of lipid nanocarriers	Mu-Ping Nieh
Panel Discussion Break	Kuo-Chih Shih
Poster and Networking	All
Off-site Dinner at Glass House, Cambridge	All - please register
Day 2 Sept 11 9:00AM – 3:00PM	
Third Session	
Ensuring RNA-LNP Drug Product Quality: Payload Integrity, RNA Impurities, and Particle Characterization	Nejc Pavlin
Lipid Membrane Dynamics Measured by Neutron Spin Echo (NSE)	Michihiro Nagao
Mesoscopic structural analysis of mRNA lipid nanoparticle formulations with DSC and SAXS	Jae Park
Overview of MP Portfolio and How it Advances LNP Development	Kuo-Chih Shih
Panel Discussion Break	Jonathan Mehtala
Lunch	All
Fourth Session	
Lyophilization and Stability of mRNA Lipid Nanoparticles: A Structural and Functional Perspective	Xiuling Lu
Effect of ionizable lipid source on the performance and stability of siRNA loaded lipid nanoparticles	Sheyda Ranjbar
Mobilize: Engineering a Modular and Versatile Targeted LNP Delivery Platform for Extra-hepatic RNA Therapeutics	Cassidy Purrington
Panel Discussion Break	Jonathan Mehtala
Closing Remarks	

Please note: this is a preliminary agenda and is subject to change