

# 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
10:00 AM - 10:45 AM	Registration (Refreshment will be served)	
	<b>First Session</b>	
10:45 AM - 11:00 AM	Welcome from MP	
11:00 AM - 11:30 AM	Degradable cyclic amino alcohol ionizable lipids as vectors for potent influenza mRNA vaccines	Arnab Rubra
11:30 AM - 12:00 PM	Recent Progress of LNP Research Field	Jonathan Mehtala
12:00 PM - 12:30 PM	Panel Discussion   Break	Kuo-Chih Shih
12:30 PM - 1:30 PM	Lunch & Networking	All
	<b>Second Session</b>	
1:30 PM - 2:00 PM	Lyophilization and Stability of mRNA Lipid Nanoparticles: A Structural and Functional Perspective	Xiuling Lu
2:00 PM - 2:30 PM	Combined experimental approaches with SAXS to probe structure of lipid nanocarriers	Mu-Ping Nieh
2:30 PM - 3:00 PM	Effect of ionizable lipid source on the performance and stability of siRNA loaded lipid nanoparticles	Sheyda Ranjbar
3:00 PM - 3:30 PM	Panel Discussion   Break	Kuo-Chih Shih
3:30 PM - 4:00 PM	Poster and Networking	All
4:30 PM - 6:30 PM	Off-site networking Dinner at Glass House, Cambridge	All
Day 2   Sept 11   9:00AM – 3:00PM		
	<b>Third Session</b>	
9:00 AM - 9:30 AM	Coffee & Networking	
9:30 AM - 10:00 AM	Ensuring RNA-LNP Drug Product Quality: Payload Integrity, RNA Impurities, and Particle Characterization	Nejc Pavlin
10:00 AM - 10:30 AM	The Importance of Diluent Choice for In-Process Characterization of LNPs via DLS	Bunjum Kim
10:30 AM - 11:00 AM	Mesoscopic structural analysis of mRNA lipid nanoparticle formulations with DSC and SAXS	Jae Park
11:00 AM - 11:30 AM	Comparative study of lipid nanoparticle mixing technologies for early development of nucleic acid medicines at bench scale	Daniel Costa
11:30 AM - 12:00 PM	Panel Discussion   Break	Jonathan Mehtala
12:00 PM - 1:00 PM	Lunch & Networking	All
	<b>Fourth Session</b>	
1:00 PM - 1:30 PM	A Modular and Versatile Targeted LNP Delivery Platform for Extra-hepatic RNA Therapeutics	Justin Fang
1:30 PM - 2:00 PM	Lipid Membrane Dynamics Measured by Neutron Spin Echo (NSE)	Michihiro Nagao
2:00 PM - 2:30 PM	Mobilize: Engineering a Modular and Versatile Targeted LNP Delivery Platform for Extra-hepatic RNA Therapeutics	Cassidy Purrington
2:30 PM - 2:50 PM	Panel Discussion	Jonathan Mehtala
2:50 PM - 3:00 PM	Closing Remarks	Kuo-Chih Shih