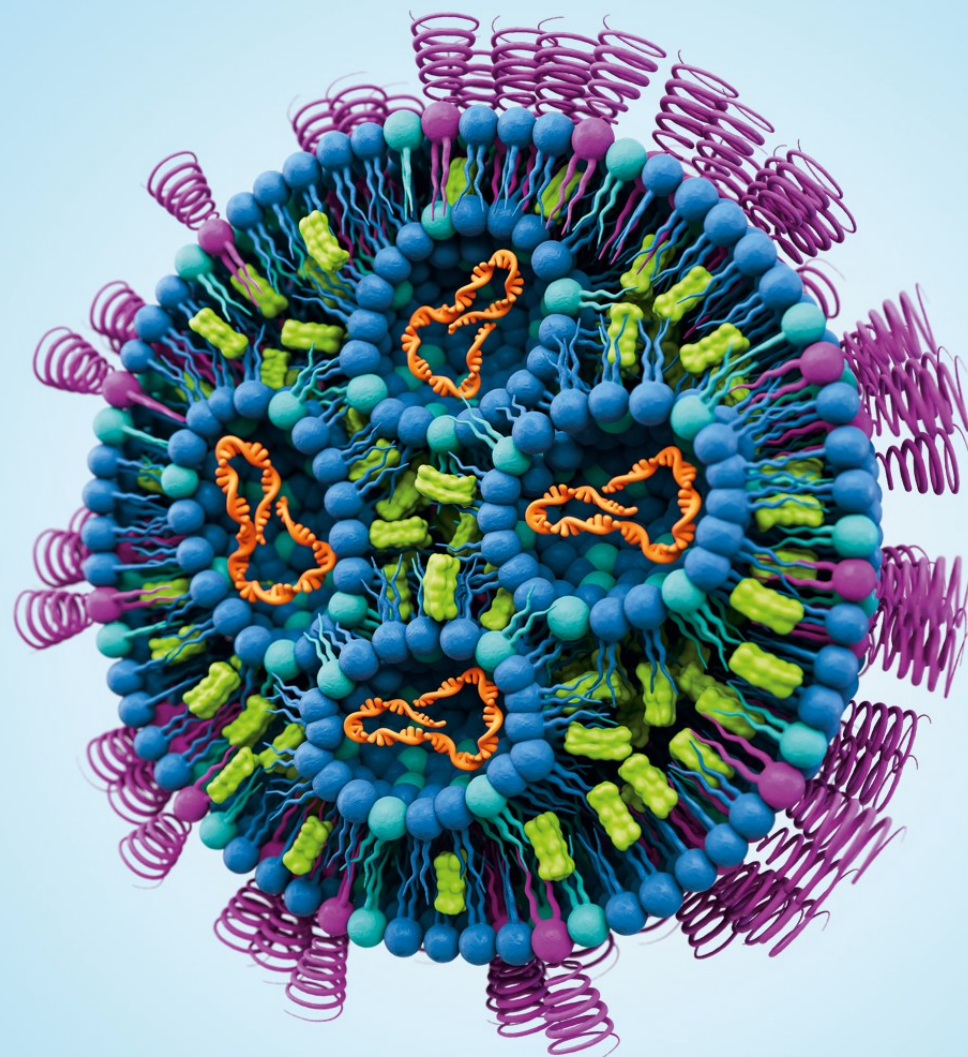


LipidSphere Fall 2026

The Next Generation of
Lipid Nanoparticles: From
Discovery to Commercial
Reality

Cambridge, MA | November 16, 2026



OVERVIEW

Monday, November 16, 2026

What will it take to bring the next generation of lipid nanoparticles from discovery to commercial reality? We invite you to join us for an exclusive LNP delivery workshop, co-hosted by Evonik and Knauer bringing together leading experts from academia, industry, and the innovation ecosystem to discuss the latest advances shaping the future of RNA therapeutics.

Key Learnings:

- **Explore New Frontiers in LNP Biology:** Learn about emerging approaches for extrahepatic LNP delivery in RNA therapeutics.
- **Discover Strategies for Rational LNP Design:** Gain insights into next-generation lipid systems, formulation innovation, and nanoparticle design strategies.
- **Protect and Advance Innovation:** Understand key intellectual property considerations for lipids, formulations, and manufacturing processes.
- **Bridge Innovation and Manufacturing:** Explore key considerations for translating LNPs from development to commercial-scale production.
- **Exclusive Lab Tour:** Get a behind-the-scenes look at LNP manufacturing and analytical technologies supporting product development. Experience KNAUER's NanoScaler Ultra LNP Mixing System and Refeyn's mass photometry platforms firsthand.

LOCATION

238 Main Street
Cambridge, MA (located at
Kendall/M.I.T. MBTA stop)

DATE & TIME

November 16, 2026
11:30 AM - 4:35 PM

PARTICIPATION FEE

Free of charge

QUESTIONS?

If you have questions or would like to register, please go to Evonik OnCare (oncare.evonik.com) or contact Likhitha Bingham via e-mail (likhitha.bingham@evonik.com)

AGENDA

Monday, November 16, 2026

11:30 AM Registration & Lunch

12:00 PM Welcome & Introduction

Part 1: New Frontiers in LNP Biology

12:05 PM Unshielded lipid nanoparticles for extrahepatic nucleic acid delivery

Jayesh Kulkarni, Co-Founder & CSO, *NanoVation*

12:35 PM A Holistic Platform Approach for Developing Robust Pulmonary mRNA Delivery: Integrating Novel Phenolic Acid-Derived Ionizable Lipids and Device Engineering

Neha Kaushal, Associate Director, Drug Delivery, *Sanofi*

Part 2: Rational Design of Advanced LNP Systems

1:10 PM Advancing Lipid Nanoparticle Performance Through Sterol Lipids and Next-Generation PEG Alternatives

Lukas Hahn, Project Manager Biomolecule Formulation, *Evonik*

1:40 PM Accelerated Discovery of Thermostable mRNA Vaccines Using Data-Efficient AI

Jinbi Tian, PhD Candidate, *MIT*

2:10 PM Navigating the Lipid Nanoparticle Patent Labyrinth

Dan Shores, Partner, *Rothwell Figg*

Part 3: Translating LNP Innovation into Manufacturable Products

2:50 PM Advances in KNAUER's LNP Formulation Systems using Impingement Jets Mixing

Farshid Pashaei, Senior Business Development Manager, *Knauer*

3:50 PM Pitfalls in scale up of LNP formulations

Zahra Merchant, Senior Manager, Strategic and Technical Marketing, *Evonik*

Continued



AGENDA

Monday, November 16, 2026

3:35 PM **Single-particle characterization of mRNA-LNPs with mass photometry**

Kayleigh Fay, Senior Applications Scientist, *Refeyn*

Part 4: Lab Tour and Demonstrations

4:00 PM **NanoScaler Ultra LNP Mixing System, *Knauer*
TwoMP and KaritroMP mass photometers, *Refeyn***

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