



## Chemical Biology of Lipids and Carbohydrate Metabolism

December 4, 2025

Presented by the Chemical Biology Discussion Group  
of The New York Academy of Sciences

Venue: The New York Academy of Sciences  
115 Broadway, 8<sup>th</sup> Floor, New York, NY 10006

### December 4, 2025

12:30 PM Check-in and Poster Setup

1:00 PM Welcome Remarks

**Melanie Brickman Borchard, PhD, MSc**, The New York Academy of Sciences  
**Christopher am Ende, PhD**, Pfizer

1:15 PM Opening Keynote: Enzymes in Molecular Biology

**Lana Saleh, PhD**, New England Biolabs

### SESSION I: Lipids

**Chairperson:** Enver Cagri Izgu, PhD, Rutgers University

1:55 PM **PNPLA3 as a Target for NASH**  
**Jaimeen Majmudar, PhD**, Pfizer

2:25 PM **Artificial Cells and Membranes**  
**Neal Devaraj, PhD**, University of California, San Diego

2:55 PM **Poster Session & Networking Break**

### SESSION II: Short Talks

**Chairperson:** Jessica Seeliger, PhD, Stony Brook University

3:40 PM **Bio-orthogonal Labeling of Chitin in Pathogenic Candida Species Reveals  
Biochemical Mechanisms of Hyphal Growth and Homeostasis**  
**Caroline Williams**, University of Delaware

3:50 PM **Metabolic Tagging Reveals Surface-Associated Lipoproteins in Mycobacteria**  
**Kindra Becker**, Stony Brook University

**SESSION III: Carbohydrates**

**Chairperson:** Dirk Trauner, PhD, University of Pennsylvania

- 4:00 PM**      **Exploring Carbohydrate Components to Understand Bacterial Survival and Pathogenesis**  
**Tania Lupoli, PhD**, New York University
- 4:30 PM**      **The Use of Enzymes to Produce Carbohydrate-Based Drugs**  
**Rebecca Ruck, PhD**, Merck
- 5:00 PM**      **Closing Keynote: Carbohydrate Components and Mucins**  
**Stacy Malaker, PhD**, Yale University
- 5:35 PM**      **Closing Remarks**  
**Melanie Brickman Borchard, PhD, MSc**, The New York Academy of Sciences  
**Catherine Grimes, PhD**, University of Delaware
- 5:40 PM**      **Conference Ends**