Delivery of oligonucleotide pharmaceutics Monday 28th and Tuesday 29th, October 2024

Organized by:

Novo Nordisk Foundation Center of Optimized Oligo Escape and Control of Disease (COE)

HCØ, Universitetsparken 5, 2100 København, Aud04

Day 1: 28-10-2024 8.30-8.55 Arriving and coffee and light breakfast 8:55-9.00 Welcome - Nikos S. Hatzakis Welcome to UCPH by Jesper Wengel (university of Copenhagen) 9.00-9.15 Session Chair Tom Kirchhausen (Harvard Medical School & Boston Children's Hospital) 9.15-10.10 Marino Zerial - Harnessing endocytosis to improve the delivery of oligonucleotidebased drugs (Human Technopole) Short talk: Unnur Jóna Björgvinsdóttir - Localized, sustained delivery of antisense 10.10-10.30 oligonucleotides via the novel, injectable biomaterial bioMATA (Technical University of Denmark) Coffee break 10.30-11.00 Session Chair Knud J. Jensen (University of Copenhagen) 11.00-11.55 Anna Salvati - Nanomedicine modifications in biological fluids, interactions with cell receptors and uptake mechanisms (University of Groningen) Hanne Mørck Nielsen - Cell-penetrating peptides as excipients in drug delivery 11.55-12.50 (University of Copenhagen) 12.50-14.20 Lunch break and poster session in the South end of Vandrehallen Session Chair Nikos S. Hatzakis (University of Copenhagen) 14.20-15.15 Jørgen Kjems - Chemically enhanced function and delivery system for RNA therapeutics (Aarhus University) 15.15-15.35 Short talk: Stefan Vogel - From lipidated Oligonucleotides to Programmable loading of Extracellular Vesicles with mRNA (University of Southern Denmark) 15.35-16.00 Coffee break

Session Chair Nikos S. Hatzakis (University of Copenhagen)

16.00-16.55	Camilla Foged – title TBA (University of Copenhagen)
16.55-17.15	Short talk: Artu Breuer - High-Throughput Single-Particle Analysis of Lipid
	Nanoparticle Biophysical Properties: A Novel Approach for Enhancing LNP
	Therapeutic Design (University of Copenhagen)
17.15-17.20	Wrap up day 1 (Nikos S. Hatzakis)
18.30-20.00	Dinner for registered participants at Food Club Nørrebro
Day 2: 29-10-2024	
9.15-9.30	Coffee and light breakfast
9.30-9.35	Welcome to day 2 – Nikos S. Hatzakis
	Session chair M. Carmo-Fonseca (University of Lisbon)
9.35-10.30	Adrian Krainer – Using unformulated ASOs for neurology and neuro-oncology
	indications (Cold Spring Harbor Laboratory)
10.30-10.50	Anders Wittrup - Live cell imaging of endosomal damage and endosomal escape of
	RNA therapeutics (Lund University)
10.50-11.10	Afaf El-Sagheer - Artificial neutral backbones for therapeutic oligonucleotides
	gymnotic delivery (University of Southampton)
11.10-11.40	Coffee break
	Session chair M. Carmo-Fonseca (University of Lisbon)
11.40-12.35	Tom Kirchhausen – Endosomal escape (Harvard Medical School & Boston Children's
	Hospital)
12.35-13.05	Round table discussion: Challenges for the future of Oligo Delivery by Nikos S.
	Hatzakis and plenary speakers.
13.05-13.10	Wrap-up and goodbye

Sponsors:

13.10



ZEISS Cell discoverer 7: Fully Automated High-Content Imaging

(Take home) lunch

Lead Identification in Drug Discovery - Integrated End-to-End Solutions for High-Content Screening

