

Developing Genetic Drugs using Nucleic Acids & Lipid Nanoparticles (LNP)

SYMPOSIUM

February 6, 2020 • 12:30–6:00 pm • UBC Biomedical Research Centre

Experts will provide an overview of LNP and functional genomics tools and talks on specific applications in this exciting new field. There will also be a three-minute research proposal competition for trainees.

12:30 pm	<i>Welcome</i>	Bob Setter Integrated DNA Technologies (IDT)
12:45 pm	NanoCore: Overcoming the Gene Delivery Barrier Using Lipid Nanoparticles	Dominik Witzigmann, PhD University of British Columbia (UBC)
1:00 pm	NanoCore Portal	Bob Setter IDT
1:15 pm	Targeted knockdown with functional genomics reagents: DsiRNAs and ASOs to knockdown mRNA, lncRNA and other cellular RNAs	Garrett Rettig, PhD IDT
1:30 pm	siRNA knockdown of coagulation factors and other blood proteins	Christian Kastrup, PhD UBC
2:05 pm	Engineering Dengue resistant mosquitoes using LNP with nucleic acid cargo	Carl Lowenberger, PhD Simon Fraser University (SFU)
2:40 pm	Topical Gene Delivery	Sarah Hedtrich, PhD UBC
3:10 pm	<i>Coffee break</i>	
3:30 pm	Characterization of synthetic single guide RNAs for CRISPR genome editing - An extensive evaluation of gRNA formats, purity, and delivery methods	Ashley Jacobi IDT
4:00 pm	Trainee competition: 3-minute research proposals	Graduate students, trainees and postdocs
5:00 pm	<i>Networking</i>	

<https://www.nanomedicines.ca/idt-symposium-2020>

FREE • EVERYONE WELCOME • REGISTRATION REQUIRED

