



VANCOUVER NANOMEDICINE DAY

November 15, 2023

VANCOUVER NANOMEDICINE DAY 2023 - Wednesday, November 15

<https://www.nanomedicines.ca/nmd-2023/>

Session 1: Introduction to Nanomedicines - Talks are in auditorium 1101 / overflow in auditorium 1201

9:00 AM	Urs Hafeli	Welcome to the 8th Vancouver Nanomedicine Day 2023	Pharmaceutical Sciences, UBC
Session 2:			Chair: Shyh-Dar Li
9:15 AM	Sabrina Leslie	Single-Particle and Single-Cell Imaging to Quantitate Biophysical Properties of mRNA Lipid Nanoparticles, and Engineer Improved Vaccines and Therapies	Michael Smith Labs, UBC
9:45 AM	Miffy Cheng	Induction of Bleb Structures in Lipid Nanoparticle Formulations of mRNA Leads to Improved Transfection Potency	Biochemistry and Molecular Biology, UBC
10:00 AM	Yihao Wang	Semiconducting Polymer Dots Directly Stabilized with Serum Albumin: Preparation, Characterization and Cellular Immunolabeling	Chemistry, UBC
10:15 AM	BREAK		
Session 3:			Chair: Diana Royce
10:45 AM	Shirin Kalyan	Site Specific Immunomodulators - An Innately Novel Approach for the Prevention and Treatment of Chronic Inflammatory Diseases and Cancer	Qu Biologics Inc., Burnaby & UBC
11:15 AM	Kefan Song	Systemically Administered STING Agonist Drugamer Targeting Dendritic Cells for Cancer Immunotherapy	University of Washington, Seattle, USA
11:30 AM	Jiamin Wu	Self-Assembling Protamine Nanostructures Enable Sublingual Absorption of Proteins	Pharmaceutical Sciences, UBC
11:45 AM	Diana Royce	The NanoMedicines Innovation Network (NMIN) – a Canadian Network of Centres of Excellence (NCE)	NMIN
11:50 AM	Pieter Cullis	What is the Future of Nanomedicines?	Biochemistry, UBC
12:15 PM	LUNCH BREAK and POSTER SESSION		
Session 4:			Chair: Sabrina Leslie
1:15 PM	Colin Ross	Nanomedicines for Gene Therapy: Optimization of Lipid Nanoparticles for Therapeutic Genome Editing	Pharmaceutical Sciences, UBC
1:45 PM	Melissa Radford	Dual Functionalization of Iron Oxide Nanoparticles	Simon Fraser University
2:00 PM	Lennart Bohrmann	Aptamer Conjugated Nanoparticles for Cancer Targeting: In Vitro and In Vivo Evaluation	University Hospital Basel, Switzerland
2:15 PM	BREAK		
Session 5:			Chair: Marcel Bally
2:45 PM	Abishek Wadhwa	Comprehensive mRNA-LNP Characterization using Single-Cell Techniques Reveals Tumour Microenvironment Reprogramming for Cancer Immunotherapy	Microbiology and Immunology, UBC
2:57 PM	Adrian Grzedowski	DNA Nano-Cubes as Highly Tunable Scaffold for Biosensors Engineering	Chemistry, UBC
3:09 PM	Nick Dragojlovic	Innovation Headroom for a More Accurate PD-L1 Companion Diagnostic in Early-Stage Non-Small Cell Lung Cancer	Pharmaceutical Sciences, UBC
3:21 PM	XuXin Sun	A Novel Liposomal Irinotecan Formulation Is a Potent Immunogenic Cell Death Inducer - Should It Be Developed for Use in Patients with Colorectal Cancer?	BC Cancer Research / Faculty of Medicine, UBC
3:33 PM	Virginia Vallejos	Development of Pegylated Liposomal Amphotericin B for Enhanced Treatment of Cutaneous Leishmaniasis Through Parenteral and Oral Administration	Federal University of Minas Gerais (UFMG), Brazil
Session 6:			Chair: Colin Ross
3:45 PM	Ethan Mickelson	Engineering Polymers for Resuscitation of Trauma Patients	University of Washington,
4:00 PM	Joel Finbloom	Directing the Biointerface of Polyelectrolyte Nanocomplexes to Treat Bacterial Biofilm Infections	Pharmaceutical Sciences, UBC
4:15 PM	Hannah Safford	Ionizable Lipid Nanoparticles for In Vivo mRNA Delivery to the Placenta	University of Pennsylvania, Philadelphia, PA, USA
4:45 PM	RECEPTION and POSTER SESSION - with Beer and Pretzels		
5:50 PM	Abishek Wadhwa	Poster Prizes	
6:00 PM	Urs Hafeli	End of Vancouver Nanomedicine Day 2023	

