

Program for Vancouver Nanomedicine Day 2019 - September 12, 2019

Location: UBC, Great Hall at the Nest, 6133 Student Union Blvd

			Talk #
8:30	REGISTRATION, COFFEE / Time to hang up posters		
9:00	Urs Hafeli	Welcome to the 5th Vancouver Nanomedicine Day 2019	Pharmaceutical Sciences, UBC 0
	Session 1		Chair: Tayyaba Hasan
9:10	Michel Meunier	Plasmonics for Diagnostics and Therapy in Nanomedicine	Polytechnique Montreal 1
9:25	Wilson Poon	Effect of Removing Kupffer Cells on Nanoparticle Tumour Delivery and Elimination	Institute of Biomaterials & Biomedical Engineering, University of Toronto 2
9:40	INVITED TALK: Shana Kelley	Nanoparticle-Mediated Rare Cell Analysis: A New Tool for Liquid Biopsy	Leslie Dan Faculty of Pharmacy, University of Toronto 3
10:20	COFFEE BREAK		
	Session 2		Chair: Shana Kelley
10:40	Colin Blackadar	Pharmacokinetics of Native and Formulated Innate Defense Regulator Peptides	Pharmaceutical Sciences, UBC 4
10:55	Cathy Yan	A Clew Into Improving Targeted Drug Delivery Through pH-Dependent DNA Origami	BIOMOD, UBC 5
11:10	Ada Leung	The Metaplex Technology: Use of Coordination Chemistry and Nanotechnology to Develop Poorly Soluble Metal-Binding Small Molecules	Cuprous Pharmaceuticals & BC Cancer Research Centre 6
11:25	INVITED TALK: Tayyaba Hasan	Photodynamic Therapy with Nanomedicines	Wellman Center for Photomedicine, Harvard Medical School 7
12:05	LUNCH & POSTER SESSION		
1:30	INVITED TALK: Ralph Mason	Photoacoustic Imaging: a Timely Tool for Drug Discovery and Assessment of Tumor Pathophysiology	University of Texas Southwestern Medical Center 8
	Session 3: Rapid Talks (5 min each incl. discussion)		Chair: Sarah Hedtrich
2:10	Philip Cohen	Re-188 Nano-Colloid Brachytherapy for Non-Melanoma Skin Cancer	UBC & OncoBeta LLC 9
2:15	Lisa Silverman	Co-Encapsulation of Curcumin with SN-38 Leads to Increased Encapsulation Efficiency in PCL-b-PEO Polymeric Nanoparticles	Chemistry, University of Victoria 10
2:20	Dayana Campanelli de Morais	Effects of Cellulose Nanocrystal on Physical Properties of a Dental Adhesive Resin Blend	Dentistry, UBC 11
2:25	Waleed Mohammed-Saeid	Poly(Acrylic Acid) Grafted Cellulose Nanocrystals (CNC-PAA) as Novel Nano-Hydrogels for Local Delivery of Platinum-Based Chemotherapeutics in Oral Cancer	Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta 12
2:30	Nikki Salmond	Development of a Liquid Blood Biopsy Test for Breast Cancer Using Nanoscale Flow Cytometry	Pharmaceutical Sciences, UBC 13
2:35	Courtney van Ballegoie	Enhancing the Modification of Protein Nanoparticles with X-Rays and Gold: Potential for Triggered	BC Cancer Research Centre 14
2:40	Bruce Verchere	A Lipid Nanoparticle Approach for Targeting the NLRP3 Inflammasome in Tissue-Resident Macrophages in Diabetes	Surgery, UBC 15
2:45	COFFEE BREAK & POSTER SESSION		
	Session 4		Chair: Kathy Saatchi
3:30	INVITED TALK: Pieter Cullis	Design of Lipid Nanoparticle Delivery Systems That Enable Gene Therapies	Biochemistry, UBC 16
4:10	Ndeye Khady Thiombane	Single-Cell Analysis for Drug Development Using Convex Lens-Induced Confinement (CLiC) Imaging	Pharmaceutical Sciences, UBC 17
4:25	Zeynab Nosrati	Targeting of Inflamed Joints in Rheumatoid Arthritis	Pharmaceutical Sciences, UBC 18
4:40	Sarah Hedtrich	Nanomedicine in Skin Research - Where Are We at?	Pharmaceutical Sciences, UBC 19
4:55	Anne Nguyen	Self-Assembling Polymer-Drug Nanoparticles: A Platform Technology for Nanomedicine Optimization	Pharmaceutical Sciences, UBC 20
5:10	Urs Hafeli/Pieter Cullis	End of Vancouver Nanomedicine Day 2019; Intro to NMIN and Next Two Days	
5:20	Group Photo outside the Nest (South side)		
5:40	Bus leaves from the Nest to the Boat "Magic Spirit"		
7:00	Boat "Magic Spirit" leaves from Coal Harbour at the Westin Bayshore Marina (1601 Bayshore drive)		
10:00	Boat arrives back at the pier; travel home on your own		

Poster Session for Vancouver Nanomedicine Day 2019 - September 12, 2019

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Poster #	Name (presenting author)	Institution/Company	Abstract Title
1	Anthony Boey	adMare Bioinnovations	Nanoparticle Intracellular Drug Delivery of Vancomycin into Liver Kupffer Cells Targeting MRSA Bacteria
2	Angelo Lanzilotto	AMGEN - UBC, Pharmaceutical Sciences	Linking IgG Heavy and Light Chains to Preserve Native Sequence Pairing
3	Devon Heroux	UBC, BC Cancer Research Centre	A Liposomal Formulation of Copper Diethyldithiocarbamate for Treatment of Triple-Negative Breast Cancer
4	Helene Stütz	UBC, Pharmaceutical Sciences	Macroaggregated Albumin Microspheres Containing Amphotericin B
5	Ellen Wasan	University of Saskatchewan, Pharmacy	A Lipidic Delivery System of a Triple Vaccine Adjuvant Enhances Mucosal Immunity Following Nasal Administration in Mice
6	Daniel Pletzer	UBC, Microbiology and Immunology	Synthetic Peptides as Adjuvant Therapy for Acute and Chronic Pseudomonas Aeruginosa Skin Infections
7	Tiffany Carlaw	UBC, Medical Genetics	Development of a eGFP Reporter Assay Model to Evaluate the Therapeutic Efficacy of CRISPR/Cas-9 Base Editing
8	Yuhang Huang	University of Victoria, Chemistry	Microfluidic Control of Structure and Drug Delivery Properties of Biological Stimuli-Responsive Polymer Nanoparticles
9	Afsaneh Lavasanifar	University of Alberta, Pharmacy & Pharmaceutical Sciences	Nanomedicine for Tumor Targeted Delivery of Novel Inhibitors of Dna Repair to Egrf Expressing Orthotopical Colorectal Cancer Xenografts in Mice
10	Sams Sadat	University of Alberta, Pharmacy & Pharmaceutical Sciences	Nano-Delivery of PNKP Inhibitor Exhibits Synthetic Lethality in PTEN-Deficient Colorectal Cancer Xenograft Mice
11	Karan Khanna	UBC, Pharmaceutical Sciences	Liquid Biopsy for Risk-Stratification in Prostate Cancer
12	Samuel Berryman	UBC, Mechanical Engineering - Centre for Blood Research	Image-Based Cell Phenotyping Using Deep-Learning
13	Gilbert Walker	University of Toronto	Nanoparticles for Surface Enhanced Raman Scattering Detection of Cell Surface Proteins
14	Wesley Walker	University of Toronto, Medical Biophysics	¹⁷⁷ Lu-Chelated Nanotexaphyrins for PDT/SPECT Theranostics
15	Samuel Clarke	Precision Nanosystems Inc.	Nanoparticle Mediated Non-Viral Gene Delivery to Enable Development of Next Gen T Cell Therapies
16	Jennifer Brown	UBC, Pharmaceutical Sciences	The Application of Differential Scanning Fluorimetry in Exploring Bisubstrate Binding to Protein Arginine N-Methyltransferase 1
17	Jerry Leung	UBC, Biochemistry and Molecular Biology	Fusion-Dependent Formation of Lipid Nanoparticles Containing Macromolecular Payloads
18	Kelsi Lix	UBC, Chemistry	Dextran-Functionalization of Semiconducting Polymer Dots and Conjugation with Tetrameric Antibody Complexes for Bioanalysis and Imaging
19	Alexander Dhaliwal	University of Toronto, Medical Biophysics	Elucidating the Mechanism of the Acoustic Conversion of Microbubbles to Nanostructures for EPR-Independent Delivery to Tumors
20	Blair Morgan	McMaster University, Chemical Engineering	Acoustic Levitation as a Screening Method for the Development of Dry Powder Vaccines
21	Jacqueline Lai	UBC	Microparticulate-Encapsulated Antigen with Split Topical CpG Oligodeoxynucleotide Adjuvant as a Single-Injection Immunization Strategy
22	Lily Takeuchi	UBC	Development of Targeted Macromolecular Iron Chelators for Treatment of Cardiac Iron Overload
23	Anitha Thomas	Precision Nanosystems Inc.	Low Volume Production of Nanoparticles That are Effective Transfection Systems in iPSC-Derived Cells, Immune Cells and Other Primary Cell Cultures
24	Lloyd Jeffs	Precision Nanosystems Inc.	Scalable Manufacture of mRNA Lipid Nanoparticles using a Novel Microfluidic Mixing Architecture
25	Mandy Chan	STEMCELL Technologies, R&D	Immunomagnetic Purification of Extracellular Vesicles from Biofluids in Less Than 30 Minutes
26	Qihao Liu	UBC, ECE	Dual-Wavelength Fiber Laser Multiphoton Endoscopy for Oral Cancer Detection
27	Terri Petkau	UBC, Medicine	Development and Optimization of LNP-based Gene Therapy Approaches in the Brain
28	Alice Man	UBC, BC Cancer Research Centre	Coumarin-3-Carboxylic Acid: A Detector for Hydroxyl Radicals Generated by Orthovoltage and Proton Radiation
29	Kent Tsung Jeng Chen	UBC, BC Cancer Research Centre	Liposomal Flavopiridol – a Novel Formulation for the Treatment of Acute Myeloid Leukemia
30	Masoud Norouzi	University of Toronto, Pharmacy	Portable, On-Demand Biofunctionalization for Nanomedicines
31	Morteza Hasanzadeh Kafshgar	Polytechnique Montreal, Engineering Physics	Targeted siRNA Delivery with Antibody Conjugated Gold Nanostars-Assisted Ultrafast Femtosecond Laser Optoporation
32	Griffin Pauli	UBC, Pharmaceutical Sciences	Liposomal Delivery of an Immunomodulating Agent to the Tumour Microenvironment: PK/PD Studies
33	Siyue Yu	UBC, Pharmaceutical Sciences	Therapeutic Genome Editing: Development of a Reporter System to Optimize and Evaluate in vivo CRISPR/CAS9 Base Editing
34	James Saville	UBC, Biochemistry and Molecular Biology	Peptidic Applications for the Discovery and Characterization of Antibodies Against Membrane Proteins
35	Morgan Alford	UBC, Microbiology and Immunology	Influence of Nitrogen Source and Metabolism on Virulence of Pseudomonas Aeruginosa
36	Reka Geczy	UBC, Pharmaceutical Sciences	Microfluidic Approaches for the Production of Monodisperse, Superparamagnetic Microspheres in the Low Micrometer Size Range
37	Melanie Dostert	UBC, Microbiology and Immunology	Genes Regulating Biofilm Formation as Novel Biofilm-specific Drug Targets
38	Presley MacMillan	University of Toronto, Chemistry	Three-Dimensional Microscopy of Administered Substances in Cleared Tissues
39	Alessia Pallaoro	UBC, Mechanical Engineering	High Content Imaging of Endocytosed Nanoparticles and F-Actin for a New Perspective in Cytoskeletal Mechanics
40	Adria Encinas Casas	UBC, Pharmaceutical Sciences	Development of Novel Cell Proliferation Reagent for Mass Cytometry
41	Felix L. Santana	UBC, Microbiology and Immunology	Functional Characterization of Four Novel Crocodylian Cathelicidin Peptides
42	Michael Dunne	University of Toronto, Pharmacy	Hyperthermia and Radiation Therapy as Modulators of the Accumulation and Efficacy of Nanomedicine-Encapsulated Chemotherapies in Breast Cancer
43	Corrie Belanger	UBC, Microbiology and Immunology	How physiologically relevant conditions affect mechanisms underlying susceptibility of Pseudomonas aeruginosa to antimicrobial agents
44	Hagar Labouta	University of Manitoba, Pharmacy	Arriving to Modeling Frameworks For Assessing Potential Nanoparticle Cytotoxicity Risks
45	Rana Faryad Ali	Simon Fraser University	Size-Controlled Synthesis of Second Harmonic Active Lithium Niobate Nanocrystals through Solution-Phase Methods
46	Henry Kang	Simon Fraser University	Tunable Functionalization of Silica Coated Iron Oxide Nanoparticles Achieved through a Silanol-Alcohol Condensation Reaction
47	Hoda Bagheri	Simon Fraser University	A Mechanically Driven Magnetic Particle Imaging (MPI) & Phase-Weighting Implementation
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