

The Vth International Drug Discovery and Development Forum 2019

NEW TRENDS IN SMALL MOLECULE DRUG DISCOVERY: Artificial Intelligence, Cancer-Cell Vulnerabilities and Immunology



September 30 - October 2, 2019

The New Centre for Translational Biology

RI-MUHC, Glen site

Presented by:

**The McGill-CIHR
Drug Development
Training Program**





DAY 1 - MONDAY, SEPTEMBER 30, 2019

Educational Sessions

in collaboration with the advanced technological platforms of the Centre for Translational Biology, the Research Institute of the MUHC

TIME		Special Training Session	ROOM
9:00-10:00		Dr. Min Fu Advanced Microscopy for Drug Discovery	E01.5135
10:00-11:00		Dr. Robert Hambalek Introduction to Hyphenated NMR Techniques: Biochemical / Biomedical Applications	EM1.3509 Training Room
11:00-12:00		Dr. Jeff Xia Metabolomics – From Basic Concepts to Practical Data Analysis	EM1.3509 Training Room
1:00-2:00		Dr. Kurt Dejgaard Practical Proteomics	ES1.1129 R.I. Auditorium
2:00-3:00		Dr. Nidia Lauzon Recent Applications of MALDI-TOF Mass Spectrometry and Imaging Mass Spectrometry	ES1.1129 R.I. Auditorium
3:00-4:00		Dr. Pierre Chaurand Matrix and metal assisted laser desorption ionization for high spatial resolution imaging mass spectrometry of lipids from thin tissue sections	ES1.1129 R.I. Auditorium

DAY 2 - TUESDAY, OCTOBER 1, 2019

8:30 - 9:00	AUDITORIUM ES1.1129	Registration Coffee
9:00– 9:15		<p>DR. BERTRAND J. JEAN-CLAUDE Director of the McGill DDTP <i>Opening statement</i></p>
SYMPOSIUM I - SMALL MOLECULE DISCOVERY		
9:15-9:45		<p>DR. JIAN HUI WU Departments of Oncology and Medicine McGill University</p> <p>PRESENTATION TITLE: <i>Discovery of Novel Compounds Targeting the N-terminal Domain of the Androgen Receptor for Castration-Resistant Prostate Cancer</i></p>
9:45-10:15		<p>DR. MILDRED DUNCAN-AVECEDO Department of Chemistry University of South Florida</p> <p>PRESENTATION TITLE: <i>PKC-ι and PKC-ζ are heavily responsible of upregulating epithelial-mesenchymal transition (EMT) and activating Vimentin to facilitate cellular motility in prostate cancer cell lines</i></p>
10:15-10:45		<p>DR. ANNE-MARIE MES-MASSON Centre de recherche CHUM et Institut du cancer de Montréal</p> <p>PRESENTATION TITLE: <i>Targeting genome instability as an essential vulnerability in ovarian cancer</i></p>

10:45-11:00 COFFEE BREAK

11:00-11:30



DR. ALAIN NEPVEU
Goodman Cancer Research Center
and Departments of Oncology, Biochemistry and
Medicine, McGill University

PRESENTATION TITLE:
*Validation of a Therapeutic Target and Development of a
High-Throughput Screen to Identify CUT Domain
Inhibitors*

11:30-12:00



DR. ANNE MARINIER
Director of Medicinal Chemistry, IRIC
Université de Montréal

PRESENTATION TITLE:
*Chemo-genomic screening in AML: a new approach to
identify therapeutic strategies in cancer*

12:00 – 1:00 LUNCH BREAK



SYMPOSIUM II – CHEMISTRY & IMMUNOLOGY

1:00-4:00

1:00-1:15		<p>SESSION CHAIR</p> <p>DR. JOHN DIBATTISTA Professor, Department of Medicine McGill</p>
1:15-2:00		<p>DR. LIJUN SUN Director, Center for Drug Discovery & Translational Research, Beth Israel Deaconess Medical Center Harvard Medical School</p> <p>PRESENTATION TITLE: <i>Characterization of 3-Acylindoles as Potent AHR Agonists: Molecular Dynamics Simulation, Structure- Activity Relationship, and Therapeutic Application in Colitis</i></p>
2:00-2:45		<p>DR. ORNELLA FRANZESE Department of Systems Medicine, School of Medicine, University of Rome Tor Vergata, Rome, Italy</p> <p>PRESENTATION TITLE: <i>Drug-induced Xenogenization: new frontiers in cancer chemoimmunotherapy</i></p>
<p>2:45 – 3:00 COFFEE BREAK</p>		
3:00-3:45		<p>DR. Kristen Smith Principal Scientist Immuno-Oncology, Discovery Bristol Myers Squibb USA</p> <p>PRESENTATION TITLE: <i>Engineering therapeutics--Lessons from building molecules that target the tumor microenvironment for immuno- oncology therapy</i></p>

DAY 3 - WEDNESDAY, OCTOBER 2, 2019

8:30- 9:00	AUDITORIUM ES1.1129	Registration Coffee
9:00- 9:15		SESSION CHAIR DR. NICOLAS MOITESSIER Professor, Department of Chemistry McGill
9:15-10:00		DR. SHAHAR KEINAN Chief Scientific Officer, Cloud Pharmaceuticals, Inc. PRESENTATION TITLE: <i>ML and AI in the design of new drug lead compounds</i>
10:00-10:45		DR. SHANRONG ZHAO Director, Computational Biology and Bioinformatics Pfizer Worldwide Research & Development PRESENTATION TITLE: <i>Advancements of RNA-seq technology and its application to drug discovery</i>
10:45 – 11:00 COFFEE BREAK		
11:00-12:30		Oral presentations by trainees <i>(Performance Prizes to be presented at the Award Ceremony)</i>
12:30 – 1:30 LUNCH BREAK		

1:30-2:30	<p align="center">BLOC E Auditorium</p>	<p align="center">Academia-Industry Session</p>
		<p align="center">DR. LANA E. JANES Venture Partner, adMare BioInnovations CDRD Centre for Drug Research & Development</p> <p align="center">PRESENTATION TITLE: <i>Design, synthesis and development of the next generation of radiopharmaceuticals as precision oncology therapeutics</i></p>
		<p align="center">DR. JOSH POTTEL President and CEO Molecular Forecaster Inc. Distinguished DDTP Alumnus</p> <p align="center">PRESENTATION TITLE: <i>Accelerating Drug Discovery in Academia and Industry with Just a Few Clicks- Accessible Computational Workflows to Design Custom Experiments</i></p>
2:30-4:30	<p align="center">BLOC E - ATRIUM</p>	<p align="center">Poster Session & Commercial Exhibition</p>
4:30-6:00	<p align="center">BLOC E Auditorium</p>	<p align="center">AWARD CEREMONY <i>GUEST OF HONOR DR. PHIL GOLD</i></p>

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