

# The V<sup>th</sup> 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	ES1.5077 Or EM2.3010
11:00-12:00		Dr. Jeff Xia Metabolomics – From Basic Concepts to Practical Data Analysis	ES1.5077 Or EM2.3010
1:00-2:00		Dr. Kurt Dejgaard Practical Proteomics	ES1.5077 Or EM2.3010
2:00-3:00		Dr. Nidia Lauzon Recent Applications of MALDI-TOF Mass Spectrometry and Imaging Mass Spectrometry	E01.5135 Or ES1.5077
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	ES1.5077 Or EM2.3010

**DAY 2 - TUESDAY, OCTOBER 1, 2019**

8:30 - 9:00	AUDITORIUM ES1.1129	Registration Coffee
9:00– 9:15		<p><b>DR. BERTRAND J. JEAN-CLAUDE</b>            Director of the McGill DDTP  <i>Opening statement</i></p>
<p><b>SYMPOSIUM I - SMALL MOLECULE DISCOVERY</b></p>		
9:15-9:45		<p><b>DR. JIAN HUI WU</b>            Departments of Oncology and Medicine            McGill University</p> <p><b>PRESENTATION TITLE:</b>  <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><b>DR. MILDRED DUNCAN-AVECEDO</b>            Department of Chemistry            University of South Florida</p> <p><b>PRESENTATION TITLE:</b>  <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><b>DR. ANNE-MARIE MES-MASSON</b>            Centre de recherche CHUM et            Institut du cancer de Montréal</p> <p><b>PRESENTATION TITLE:</b>  <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

1:00-1:45		<p><b>DR. LIJUN SUN</b> Director, Center for Drug Discovery &amp; Translational Research, Beth Israel Deaconess Medical Center Harvard Medical School</p> <p><b>PRESENTATION TITLE:</b> <i>Characterization of 3-Acylindoles as Potent AHR Agonists: Molecular Dynamics Simulation, Structure-Activity Relationship, and Therapeutic Application in Colitis</i></p>
1:45-2:30		<p><b>DR. ORNELLA FRANZESE</b> Department of Systems Medicine, School of Medicine, University of Rome Tor Vergata, Rome, Italy</p> <p><b>PRESENTATION TITLE:</b> <i>Drug-induced Xenogenization: new frontiers in cancer chemoimmunotherapy</i></p>
<p><b>2:30 – 2:45 COFFEE BREAK</b></p>		
2:45-3:30		<p><b>DR. BRYAN BARNHART</b> Senior Director Immuno-Oncology, Discovery Bristol Myers Squibb USA</p> <p><b>PRESENTATION TITLE:</b> <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 <b>DR. KARINE AUCLAIR</b> Professor, Department of Chemistry McGill
9:15-10:00		<b>DR. SHAHAR KEINAN</b> Chief Scientific Officer, Cloud Pharmaceuticals, Inc.  <b>PRESENTATION TITLE:</b> <i>ML and AI in the design of new drug lead compounds</i>
10:00-10:45		<b>DR. SHANRONG ZHAO</b> Director, Computational Biology and Bioinformatics Pfizer Worldwide Research & Development  <b>PRESENTATION TITLE:</b> <i>Advancements of RNA-seq technology and its application to drug discovery</i>
<b>10:45 – 11:00 COFFEE BREAK</b>		
11:00-12:30		Oral presentations by trainees <i>(Performance Prizes to be presented at the Award Ceremony)</i>
<b>12:30 – 1:30 LUNCH BREAK</b>		

<b>1:30-2:30</b>	<b>BLOC E Auditorium</b>	<b>Academia-Industry Session</b>
		<p><b>DR. LANA E. JANES</b>  Venture Partner, adMare BioInnovations  CDRD Centre for Drug Research &amp; Development</p> <p><b>PRESENTATION TITLE:</b>  <i>Design, synthesis and development of the next generation of radiopharmaceuticals as precision oncology therapeutics</i></p>
		<p><b>DR. JOSH POTTEL</b>  President and CEO  Molecular Forecaster Inc.  Distinguished DDTP Alumnus</p> <p><b>PRESENTATION TITLE:</b>  <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	BLOC E - ATRIUM	Poster Session & Commercial Exhibition
4:30-6:00	BLOC E Auditorium	<p><b>AWARD CEREMONY</b>  <b><i>GUEST OF HONOR DR. PHIL GOLD</i></b></p>

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