# 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
	Dr. Pierre Chaurand  Matrix and metal assisted laser desorption ionization	ES1.5077

for high spatial resolution imaging mass

spectrometry of lipids from thin tissue sections

Or

EM2.3010

3:00-4:00

DAY 2 - TUESDAY, OCTOBER 1, 2019

8:30 - 9:00	AUDITORIUM ES1.1129	Registration Coffee
9:00-9:15		DR. BERTRAND J. JEAN-CLAUDE  Director of the McGill DDTP  Opening statement
	SYMPOSIUM I -	SMALL MOLECULE DISCOVERY
9:15-9:45		DR. JIAN HUI WU Departments of Oncology and Medicine McGill University  PRESENTATION TITLE: Discovery of Novel Compounds Targeting the N- terminal Domain of the Androgen Receptor for Castration-Resistant Prostate Cancer
9:45-10:15		DR. MILDRED DUNCAN-AVECEDO  Department of Chemistry University of South Florida  PRESENTATION TITLE:  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
10:15-10:45		DR. ANNE-MARIE MES-MASSON  Centre de recherche CHUM et  Institut du cancer de Montréal  PRESENTATION TITLE:  Targeting genome instability as an essential  vulnerability in ovarian cancer

#### 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

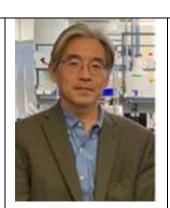
#### PRESENTATION TITLE:

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



#### **DR. LIJUN SUN**

Director, Center for Drug Discovery & Translational Research, Beth Israel Deaconess Medical Center Harvard Medical School

#### PRESENTATION TITLE:

Characterization of 3-Acylindoles as Potent AHR Agonists: Molecular Dynamics Simulation, Structure-Activity Relationship, and Therapeutic Application in Colitis

1:00-1:45

1:45-2:30



#### DR. ORNELLA FRANZESE

Department of Systems Medicine, School of Medicine, University of Rome Tor Vergata, Rome, Italy

#### PRESENTATION TITLE:

Drug-induced Xenogenization: new frontiers in cancer chemoimmunotherapy

#### 2:30 – 2:45 COFFEE BREAK

2:45-3:30



#### DR. BRYAN BARNHART

Senior Director Immuno-Oncology, Discovery Bristol Myers Squibb USA

#### PRESENTATION TITLE:

Engineering therapeutics--Lessons from building molecules that target the tumor microenvironment for immuno-oncology therapy

DAY 3 - WEDNESDAY, OCTOBER 2, 2019				
8:30- 9:00	AUDITORIUM	Registration		
	ES1.1129	Coffee		
9:00- 9:15		SESSION CHAIR  DR. KARINE AUCLAIR  Professor, Department of Chemistry  McGill		
9:15-10:00		DR. SHAHAR KEINAN Chief Scientific Officer, Cloud Pharmaceuticals, Inc. PRESENTATION TITLE: ML and AI in the design of new drug lead compounds		
10:00-10:45		DR. SHANRONG ZHAO  Director, Computational Biology and Bioinformatics Pfizer Worldwide Research & Development  PRESENTATION TITLE: Advancements of RNA-seq technology and its application to drug discovery		
10:45 – 11:00 COFFEE BREAK				
11:00-12:30		Oral presentations by trainees		
		(Performance Prizes to be presented at the Award Ceremony)		
12:30 – 1:30 LUNCH BREAK				

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

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