

NRC-CHUSJ Workshop – November 22, 2022

9:00am – 4:45 pm

Zoom link: https://chusj.zoom.us/webinar/register/WN_RoxeBmaDROa1ipq8zIS6ug

Day Program Overview

9:00 – 9:10	Welcome Chairs: Sue Twine and Sylvain Chemtob
	Update from the Scientific Committee: A year in review <i>Sue and Sylvain</i>
9:10 – 10:20	Projects with Proof-of-Concept co-funding Chair: Sue Twine
	Modeling tumor microenvironment acidosis and hypoxia using 3D spheroids of non-small cell lung cancer and their impact on anticancer drug effects. <i>Presenter: Nazanin Rohani (NRC)</i> <i>Leads: Noël Raynal (CHUSJ) & Anne Lenferink (NRC)</i>
	Testing and Development of Novel Solid Tumour CARs Using Novel Therapeutic Cell Platforms. <i>Elie Haddad (CHUSJ) & Scott McComb (NRC)</i>
	Automated immunomagnetic purification from complex biofluids on microfluidic microchips. <i>Presenter: Lucas Poncelet (NRC)</i> <i>Leads: Daniel Sinnott (CHUSJ) & Teodor Veres (NRC)</i>
	MicroDNA signature for prognosis of childhood acute lymphoblastic leukemia. <i>Maja Krajinovic (CHUSJ) & Teodor Veres (NRC)</i>
	Harvesting and banking of human amniotic fluid cells for iPSC reprogramming. <i>Anna Jezierski (NRC) & Christian Beauséjour (CHUSJ)</i>
	Improving neurogenesis in Tatton-Brown-Rahman Syndrome by regulating DNMT3A protein expression. <i>Serge McGraw (CHUSJ), Richard Marcotte (NRC) & Anna Jezierski (NRC)</i>
	Functional characterization of factors influencing natural killer (NK) cell activity against therapy-induced senescent solid tumor models. <i>Christian Beauséjour, Elie Haddad (CHUSJ) & Richard Marcotte (NRC)</i>
10:20 -10:35	Break
10:35 – 10:45	Collaboration progress and update Chair: Sue Twine
	An update on the developments of the CHUSJ-NRC partnership. <i>Sue Twine & Jacques Michaud</i>
10:45-12:05	Session II : Innovative Technologies and AI

	Chair: Anne-Marie Alarco
	Modified lipid nanoparticles for improved gene delivery in the treatment of glioblastoma. <i>Pierre Hardy (CHUSJ)</i>
	Interpretable Machine Learning Models for an Automatic Diagnosis of Retinal Diseases. <i>Farida Cheriet (CHUSJ/Polytechnique)</i>
	Digital Therapeutics at NRC. Denis Laroche (NRC)
	Développement d'outils computationnels pour l'analyse automatique d'images histologiques placentaires. <i>Lama Seoud (CHUSJ/Polytechnique)</i>
12:00– 13:00	Lunch
13:00 – 14:30	Session III: From idea to product Chair: Alexander Serrano
	CUTR as a driver of innovation. <i>Alexandre Serrano, Business Development Officer, NRC & Anne-Marie Alarco, Chief of Innovation, CHUSJ</i>
	MEDTEQ+ Beachhead program and how to finance your project. <i>Miled Bourourou and Marc-Olivier Pilon, Account manager, MEDTEQ</i>
	Funding collaborative life science projects with CQDM. <i>Mathieu Paquette, Director of business development, CQDM</i>
	Adventures in early-stage biologics development & Chemistry Manufacturing and Controls (CMC). <i>Iliia Tikhomirov, CEO 35Pharma</i>
14:30 – 14:45	Coffee and tea break
14:45 – 16:30	Session IV AI applications in Health Sciences Chair: Sylvain Chemtob
	Mila & Health. <i>Laurent Tillement, Director partnership, AI and Healthcare, MILA</i>
	Data infrastructures to support AI at the CHUSJ. <i>Vincent Ferretti (CHUSJ)</i>
	La science des données aux soins intensifs pédiatriques. <i>Philippe Jovet & Michael Sauthier (CHUSJ)</i>
	AI in vaccine design. <i>Soren Gantt (CHUSJ) & Abdoulaye Diallo (UQAM)</i>
	AI approaches applied to protein interface modelization and docking. <i>Christopher Corbeil (NRC)</i>
	Robotic systems for rehabilitation and assistance of patients with neuromotor deficits. <i>Abolfazl Mohebbi (CHUSJ/Polytechnique)</i>
16:30	Closing Sylvain Chemtob

