



# HackMedTech

MedTech Talent Accelerator

***JUDGES & MENTORS***

# Dr. Melissa-Rosina Pasqua

JUDGE



- 5th year subspecialty resident in Endocrinology & Metabolism at McGill University,
- Master's candidate in Experimental Medicine,
- Graduated summa cum laude from University of Ottawa's Honours Bachelor of Science with Specialization in Biochemistry,
- Received a Doctorate in Medicine from the University of Ottawa.
- Has since been at McGill since medical residency training.
- Masters' of Science (Experimental Medicine) in the lab of Ahmad Haidar focusses on the use of low-dose empagliflozin to optimize artificial pancreas systems for adults with type 1 diabetes,
- Draws on **her own patient experience living with type 1 diabetes**, her own use of commercially available artificial pancreas systems, and prior community involvement with type 1 diabetes with the Diabetes Hope Foundation

# Evelyne Pytka, P.Dt., CDE, CPT

JUDGE



- BSc in Dietetics and Nutrition from McGill University,
- Clinical nutritionist and certified diabetes educator at the Montreal Children's Hospital for 17 years,
- In 2005, helped establish the Paediatric Insulin Pump Centre (PIPC), Canada's first free-standing insulin pump education centre,
- At the PIPC, provided education to children with diabetes and their families, trained and mentored health care professionals throughout Quebec, and conducted research into outcomes of insulin pump use in children and adolescents with diabetes,
- Remains an insulin pump educator for people with type 1 diabetes ,
- Team member of Dr Ahmad Haidar's Artificial Pancreas Lab at McGill University,
- **Has lived with type 1 diabetes for over 30 years.**

# Ahmad Haidar, PhD

JUDGE



- Assistant Professor, Department of Biomedical Engineering, McGill University,
- Associate Member, Department of Medicine, Division of Experimental Medicine,
- **Research focus is development of the artificial pancreas, a medical device** that automatically regulates glucose levels **for patients with type 1 diabetes,**
- The artificial pancreas is composed of a glucose sensor, an infusion portable pump, and an advanced mathematical dosing algorithm that controls hormonal delivery based on the sensor readings,
- Dr Haidar's lab conducts clinical trials to assess different configurations of the artificial pancreas, the performance of the artificial pancreas during exercise and meals, and the performance of the artificial pancreas in special patient populations and during long term use,
- Teaches courses on clinical trials, signals and systems, and BME modeling and identification.

# Richard Jonkers, PhD

MENTOR



- Completed his education in Biomedical Engineering at Eindhoven University of Technology in the Netherlands,
- (co)author of 14 articles published in international, peer-reviewed journals, stemming from both his MSc thesis and PhD,
- MSc research analyzed the effects of physical activity status on human skeletal muscle tissue characteristics using  $^1\text{H}$  magnetic resonance spectroscopy and immune-histochemical staining techniques,
- PhD research expanded MSc focus to different models of insulin resistance in both pre-clinical and clinical studies,
- After his PhD, began working as a Clinical Research Specialist for the Endovascular Therapies division of Medtronic Bakken Research Center in Maastricht, the Netherlands,
- In 2013, moved to **Medtronic Canada**, now holds a position as **Principal Clinical Research Specialist in both the Endovascular and Diabetes divisions.**

# Dr. Nick Bellissimo

MENTOR



- Associate Professor and Director of the Nutrition Discovery Labs in the School of Nutrition at Ryerson University,
- B.Sc. and B.Ed. from York University,
- M.Sc. and Ph.D. in Nutritional Sciences from the University of Toronto,
- Postdoctoral training at the University of Toronto and Pennsylvania State University,
- Current **research program dedicated to advancing our understanding of human ingestive behavior**, with a particular emphasis on elucidating the determinants of food intake control in children,
- Significant leadership in the design of experimental trials related to diet and exercise, and in the design and testing of novel food ingredients, food formulations on satiety, and on biomarkers related to health and disease,
- Member of several journal editorial boards, and provides scientific advising to government agencies, institutes, and the food industry.

# Stuart Kozlick, Eng, MASc

MENTOR



- Strategic Advisor, Executive-In-Residence at Fasken Martineau DuMoulin LLP,
- CEO of Puzzle Medical Devices Inc.,
- Professor of Practice at McGill University's Faculty of Medicine, Department of Surgery,
- Specializes in interactions with clinicians, healthcare institutions, academia, industry developers, and government – all fostered towards the collaborative goal of **medical technology realization, development and commercialization**,
- Member of the TransMedTech Institute's Board of Governors, the CTS Santé's Board of Directors,
- M.A.Sc., Mechanical Engineering, Concordia University; Graduate Certificate, MIT,
- B.Eng., Mechanical Engineering, specialization in Design, Manufacturing & Quality Assurance, Concordia University,
- Former Vice President of Medical Robotics at a company that specializes in the robotics industry, and senior engineer for R&D systems at Medtronic.

# Colin Foster, B.Sc, M.Sc.

MENTOR



- Head of Health Canada's medical device regulatory section within the Medical Devices Bureau,
- Unparalleled understanding of Health Canada's medical device legislation, regulations, policies and operations,
- Has direct authority over the majority of Health Canada's annual medical device licensing decisions,
- Uses risk-benefit principles to regulate medical device market access,
- Develops regulatory policies aimed at modernizing Canadian oversight while pursuing international harmonization,
- M.Sc., Cell/Cellular and Molecular Biology, University of Ottawa,
- B.Sc., Honours, Cell/Cellular and Molecular Biology, Western University.