Developments in Genome Analysis

Research and Clinical Applications

November 7, 2023 Room MS3154, Medical Sciences Building

9:00 - 9:10	Opening Remarks
9:10 - 9:40	Talk 1: Jordan Lerner-Ellis, PhD, FACMG (Mt. Sinai Hospital Toronto)
7.25	Canadian Genomic Databases & Novel Computing Platforms: Tools for Molecular Diagnostics & Biomedical
9:40 - 10:10	Research Talk 2: Adam Shlien, PhD, FCCMG (The Hospital for Sick Children Toronto)
). 10 10.10	Massive clinical utility of genomics in childhood cancer
10:10 - 10:40	Coffee Break
10:40 - 11:10	Talk 3: Fritz Roth, PhD (University of Pittsburgh School of Medicine)
10.10 11.10	Towards a Contextual Atlas of Variant Effects
11:10 - 11:40	Talk 4: Tehmina Masud, MBBS PhD (Deep Genomics)
	Predicting UTR Variant Effects with Deep Learning and BigRNA, an RNA Foundation Model
11:40 - 12:35	Keynote 1: Tomi Pastinen, MD, PhD (University of Missouri-Kansas City School of
11.10 12.33	Medicine, Children's Mercy)
	First Comprehensive Genetic Test: The Impact of HiFi Sequencing on Diagnoses and Variant Discovery
12:35 - 1:30	Lunch Break
12:33 - 1:30	Luiicii Di Cax
1:30 - 1:35	Session Introduction
1:35 - 2:30	Keynote 2: Laura Arbour, MSc, MD, MSc, FRCPC, FCCMG (UBC Island Medical Program)
	The Silent Genomes Project - Building and implementing a sustainable Indigenous background variant library (IBVL) to improve diagnostic success for Indigenous patients with genetic disease
2:30 - 3:00	Talk 5: Ashish Deshwar, MD, PhD, FRCPC (The Hospital for Sick Children Toronto)
	Bringing Transcriptomics to the Clinic: RNA sequencing as a diagnostic tool in rare disease
3:00 - 3:30	Talk 6: Jessica Gu, Msc, MS, CGC (Medcan)
	Elective Whole Genome Sequencing in an Ostensibly Healthy Canadian Population
3:30 - 4:00	Coffee Break
4:00 - 4:45	Panel Discussion: Opportunities and challenges of genomic medicine
	Rebekah Jobling, MD, FRCPC – molecular geneticist/clinical geneticist at SickKids
	Jordan Sam, MHSc Medical Genomics – genomics data scientist at St. Michael's Hospital
	Kim Amburgey, MSc – genetic counsellor, program director at Advanced Therapeutics node of PCH initiative at SickKids
	Hanna Faghfoury, MD, FRCPC, FCCMG – geneticist at UHN, program director Medical Genetics training program
	Ashish Deshwar, MD, PhD, FRCPC - physician scientist at the Division of Clinical and Metabolic Genetics at SickKids
	Moderation: Stacy Hewson , MSc, MSc, CCGC, CGC - Program Director of MSc Genetic Counselling at University of Toronto
	and Director of Genetic Counselling at The Hospital for Sick Children



Concluding statements

4:45 - 5:00