10:40 20 min Social Break 11:00 30 min LU Faculty Presentation - Dr. Carlos Zerpa Title: Concussions in Sports: Biomechanics Measures 11:30 30 min PANEL: Biomechanics (Chair - Dr. Sanzo) Panelists: Dr. Carlos Zerpa, Dr. Walter Herzog, Dr. Salvatore Federico 12:00 50 min POSTER SESSION – visit the virtual poster room to view the posters Session 2 - Medical Imaging Session Chair – Dr. Sabah Mohammed 12:50 10 min Dr. Mitch Albert to open the session and introduce Dr. Charles Cunningham KEYNOTE: CHARLES CUNNINGHAM Hyperpolarized 13C MRI of the Human Brain 1:40 10 min Dr. Mohammed to introduce students and postdocs 1:50 10 min Sarah Tribe (Dr. Campbell)	FRIDAY AUGUST 27						
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	1:50	10 min	Saran Tribe (Dr. Campbell) Developing a Procedure for Radiolabeling Chemotherapy Drugs				
Jonas Olsen (Dr. Hou)	2:00	10 min					
PET Imaging			PET Imaging				
2:10 Branden Mandaric (Dr. Campbell)	2:10	10 min	· · · ·				
Development of an 18F Radiolabeling Method using Solid Phase Chemistry							
2:20 Clifford Agyei (Drs. Campbell and MacKinnon) The Development of a New High-capacity Solid Resin for Use in Mo/Tc-99m Generators	2:20	10 min					
Jessica Allingham (Drs. Campbell and Floriano)							
	2:30	10 min	Brightening Up Brain Injuries: The Design, Synthesis, and Characterization of a PET Diagnostic				
Agent for Neuronal Trauma							

	FRIDAY AUGUST 27				
2:40	10 min	Darien Sawyer (Drs. Fiaidhi and Mohammed)			
		Thick Data Analytics for Segmenting COVID-19 from CT-Scans			
2:50	10 min	Social Break			
3:00	30 min	PANEL: Medical Imaging (Chair- Dr. Mohammed)			
		Panelists: Dr. Amarjit Chahal, Dr. Yurii Shepelytskyi			
Session 3 - Tissue Engineering					
Session C	hair - Dr. Alı	i Tarokh			
3:30	10 min	Dr. Ali Tarokh to open the session and introduce Dr. Ali Tamayol			
3:40	40 min	KEYNOTE: ALI TAMAYOL			
		Non-conventional Engineering Tools for the Treatment of Skin and Muscle Injuries			
4:20	10 min	Behrooz Afra (Dr. Tarokh)			
		A Deep Insight into the Applications of Computational Fluid Dynamics in Bio-Engineering			
		Problem			

SATURDAY AUGUST 28 - morning						
8:30	30 min	Gather Space Acclimatization				
	DIGITAL HEALTH TECHNOLOGIES					
Session C	Session Chair - Dr. Jinan Fiaidhi					
9:00	10 min	Dr. Jinan Fiaidhi to open the session and introduce Dr. Craig Kuziemsky				
9:10	40 min	KEYNOTE: CRAIG KUZIEMSKY Digital Health Systems Based Approaches for Health Care Transformation				
9:50	10 min	Dr. Fiaidhi will Introduce students and postdocs				
10:00	10 min	Shiv Hansoti, Divarsh Patel (Dr. Fiaidhi) Designing and Optimizing Hand Gesture Detection and Recognition using Advanced Computational Techniques				
10:10	10 min	Lisa Ewan (Dr. Mohammed) Medical Workflow Design and Planning Using Node-Red Data Fusion				
10:20	10 min	Social Break				
10:30	10 min	LU Faculty Presentation - Dr. Sabah Mohammed QL4POMR: A Graph-Based Problem Oriented Medical Record				
11:00	30 min	Dr. Arnold Kim Aurora Constellations: A novel modeling and design-oriented approach that leverages collaborative, iterative drafting and compositional approach in the construction, validation and implementation of clinical planning.				
11:30	30 min	PANEL: Problem Oriented Medical Records (POMR) (Chair - Dr. Fiaidhi) Panelists: Dr. Garima Bajwa, Dr. Arnold Kim, Dr. Sabah Mohammed				
12:00	50 min	POSTER SESSION – visit the virtual poster room to view the posters				

	SATURDAY AUGUST 28 - afternoon					
	ENVIRONMENTAL SUSTAINABILITY					
Session C	Session Chair - Dr. Sreekumari Kurissery					
12:50	10 min	Dr. Sreekumari Kurissery to open the session and introduce Dr. Lesley Lovett-Doust				
1:00	40 min	KEYNOTE: LESLEY LOVETT-DOUST Environmental Sustainability: Aristotle and the Anthropocene				
1:40	10 min	Social Break				
1:50	10 min	Dr. Jinan Fiaidhi to introduce Dr. Christopher Henry				
2:00	40 min	KEYNOTE: CHRISTOPHER HENRY Digital Agriculture: The Terrabyte Project				
2:40	10 min	Dr. Sreekumari Kurissery will introduce environment related students and postdocs				
2:50	10 min	Nadia Sufdar Ali (Dr. Qin) Production of Laccase from Serratia proteamaculans and its Potential in Decolourisation of an Anthraquinonoid Dye - Remazol Brilliant Blue R				
3:00	10 min	Sarita Shrestha (Dr. Qin) A Newly Characterized Streptomyces sp. is of High Potential Value in Converting Organic Wastes into Value-added Bioproducts				
3:10	10 min	Xuantong Chen (Dr. Qin) The Effect of Photoperiod on Pleurochrysis Dentata Lipid and Calcium Carbonate Accumulation and the Novel Discovery of Calcium Carbonate Shell Function				
3:20	10 min	Chris Chio (Dr. Qin) Optimization and Purification of Amylase Production from Bacillus velezensis and Recovering of Its Derived Value-added Products				
3:30	10 min	Janak Khatiwada (Dr. Qin) Malting Effluent for Microalgae Cultivation and Subsequent Biomass and Lipid Production				
3:40	10 min	Afrooz Tarokh Point-of-Care Detection of Salmonella in Food and Water Using an Optical Aptasensor Based on G-C3N4@Cu2O Composites				
3:50	30 min	LU Faculty Presentation - Dr. Nandakumar Kanavillil Formation, impacts and removal of biofilms from surfaces of interest				
4:20	30 min	PANEL: Current Issues in Environmental Sustainability (Chair - Dr. Kurissery) Panelists: Dr. Ali Tarokh, Dr. Wensheng Qin, Dr. Florin Pendea, Dr. Nandakumar Kanavillil, Dr. Lesley Lovett-Doust				
4:50	10 min	Concluding session – Thank you to everyone for participating; awards to be announced later				

POSTERS

Digital Health Technology

Desiree Dmello, MSc, student in Computer Science, Lakehead University.

Developing a Descriptive Chatbot for Mental Health Awareness Among Youth in Canada

Environmental Sustainability

Dr. Yanwen Wu, Co-innovation Center for Sustainable Forestry in Southern China, Jiangsu Province Key Laboratory of Soil and Water Conservation and Ecological Restoration, Nanjing Forestry University, China; Department of Biology, Lakehead University, Canada

Genome and Transcriptome Sequencing of Novel Pseudomonas sp. NLX-4 Strain Involved in Bio-restoration of Over Exploited Mining Sites

Dr. Yuen Zhu, College of Environmental & Resource Sciences, Shanxi University, Shanxi, China Effects of nZVI modified biochar and earthworms on the dissipation of sulfamethoxazole, microbial antibiotic resistance genes and microbial community structures in soil

Dr. Guixiang Zhang, Taiyuan University of Science and Technology

Changes in abiotic dissipation rates and bound fractions of antibiotics in biochar-amended soil

Aristide Mokale, Biotechnology PhD Student, Lakehead University.

Production of Glucose Isomerase from Soil Bacterial Isolates

Clinical Health Research

Wenjie Liu, Chemistry and Materials Science PhD Student, Lakehead University Development of PET Molecular Probes for Lysophosphatidic Acid Receptor Type 1

Dong Zhao, Chemistry and Materials Science PhD Student, Lakehead University

The Development of PET Radiotracers for Imaging Aurora Kinases

Austin Hopkins, Student, Lakehead University.

The Design and Synthesis of a PAR2 Imaging Agent

Nicholas Renyard, Student, Lakehead University.

Concussion Symptoms Related to Head and Neck Injuries

Halen Kovacs, Student in Chemistry, Lakehead University.

Design, Synthesis and Analysis of Small Molecule Aurora Kinase Inhibitors as Possible Cancer Diagnostics and Theraputics

Joseph Deschamps, Student in Chemistry, Lakehead University.

Design and Synthesis of Aurora Kinase Inhibitors

Abdollah Hozhabrnia, Center for Healthcare Data Modeling, Department of Biostatistics and Epidemiology, School of Public Health, Shahid Sadoughi University of Medical Sciences, Yazd, Iran.

Cut-off values of anthropometry indices to predict cardiovascular disease incidence by ROC curve analysis in 10 years follow-up in study of Yazd healthy heart cohort (YHHC) of Iran