

- [Translational Research](#)
- [Emerging Technologies and Engineering](#)
- [Education and EDI-focused Research](#)

<b>Translational Research</b>		<b>Moderator:</b>	<b>Ainsely Lewis</b>
2:00 PM to 2:20 PM	Erick McNair		Assessment of proteome changes in the development of acute kidney injury following cardiopulmonary bypass-supported cardiac surgery
2:20 PM to 2:40 PM	Kafi Ealey		Rejuvenation of immunosenescent phenotypes in aged adipose tissue by intermittent fasting
2:40 PM to 3:00 PM	Nancy Mugisha		Altered functional connectivity of the motor network in children with spinal muscular atrophy: a pilot study
3:00 PM to 3:20 PM	Kennedy Nmecha		Assessing the influence of sex on the cd1 nephrectomized streptozotocin-induced diabetic kidney disease model
3:20 PM to 3:40 PM	Ifeoluwa O. Awogbindin		Neurotoxicity of furan in juvenile wistar rats involves behavioural defects, microgliosis, astrogliosis and oxidative stress
3:40 PM to 4:00 PM	Lightning talks	Adam Mohamed	The effect of neurofibromin on neurocognition and anxiety in experimental traumatic brain injury
		Alannah Grant	City living: the influence of urban stress on early rates of neurogenesis in eastern grey squirrels

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Emerging Technologies and Engineering		Moderator:	Ibrahim Ogunsanya
2:00 PM to 2:20 PM	Benilde Mizero		Development of sustainable snow remediation processes using clay-based materials
2:20 PM to 2:40 PM	Craige Boyd		"Hot particle" dosimetry using a wall-less tissue equivalent proportional counter
2:40 PM to 3:00 PM	Cherif Ibrahim Khalil Diop		Subcritical water, a cleaner nanosizing technique to simultaneously enhance sustainability and circularity of nanocellulose manufacturing.
3:00 PM to 3:20 PM	Olakunle Betiku		Metallurgical pathways to improve mechanical performance and vehicle crashworthiness
3:20 PM to 3:40 PM	Wasiu Raji		Aquifer storage assessment using thematic hydro lithologic parameters and machine learning models
3:40 PM to 4:00 PM	Lightning talks	Ibrahim Ogunsanya	Ensuring durability and sustainability of reinforced concrete structures: what to consider
		Paul Adamu	Intelligent motor drive for improved electric vehicle performance
		Gym Clerc Lentsolo Yalli	Synthèse de nanolatex pénétrants pour le développement des teintures durables pour le bois exposé aux intempéries
		Ijeoma Omodu	The Promise and Potentials of Carbon Capture, Utilization and Storage

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<b>Education and EDI-focused Research</b>		<b>Moderator: D'Andre Wilson-Ihejirika</b>	
2:00 PM to 2:20 PM	Woldegebriel Assefa Woldegerima	Why do we learn this all math: the use of mathematical modelling in real-life problems	
2:20 PM to 2:40 PM	Kim Borden Penney	The absence of Black women engineers in leadership positions	
2:40 PM to 3:00 PM	Catalina Albury	Exploring career stagnation in employment equity groups amongst canadian public servants	
3:00 PM to 3:20 PM	Jennifer Adams	The experiences of Black Canadian trainees in STEM (science, technology, engineering, math and medicine)	
3:20 PM to 3:40 PM	Amanda Ottley and Sara Taghavi Motlagh	Leveraging technology for equity: using an ai powered chatbot to support black parents in shared decision-making about covid-19 vaccination	
3:40 PM to 4:00 PM	Lightning talks	D'Andre Wilson-Ihejirika	Career pathways for Black engineering graduates of the University of Toronto
		Diane Watson	Securing mobile connectivity and closing the digital divide
		Delano Lewis	Counting Butterflies! Are you serious?