



Image designed by Dr. Sanna Abbasi

## Dept. of Biochemistry Newsletter

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Send contributions to: [mweir24@uwo.ca](mailto:mweir24@uwo.ca)

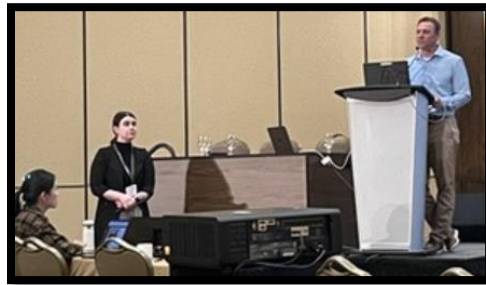
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### PEOPLE AND OTHER STUFF

- Updates from Biochemistry's EDID Committee...
  - ✓ Check out this [reporting tool](#) to find out which resources to access at Western for reporting harassment, discrimination, gender-based and sexual violence, or other unprofessional behaviour.
  - ✓ Four more workshops were presented for the new learning and commitment phases for decolonizing teaching in the Dept. A final workshop for the latter phase will be presented in May for naming the changes we would like to see. Everyone is also welcome to share those changes in an anonymous survey by 6 May: [Decolonization of Biochemistry teaching - survey](#)  
Once that workshop is completed, we will move into the rebuilding phase of our decolonization plan.
- Everyone is welcome to attend our first Dr. Bishnu D. Sanwal Lecture on 29 May from 9 am to 1 pm in the Schmeichel Building Rm. 1110. This event honours the legacy of a former Chair of Biochemistry and is made possible by an endowment from his family. Content will include a keynote lecture from Dr. John Dick (Princess Margaret Cancer Centre, UHN, Toronto) and associated programming about the evolution and future of biochemistry at Western. RSVP: [Sanwal Lecture](#)

## CONGRATS TO...

- ★ Laila Bayat, Tyler Browne, Daniel Nucifora, and Tasnim Reza for successful PhD thesis defenses
- ★ Blane Gebreyes, Jessica Jeong, Raagul Sivacumar, and Samsad Sultana for successful MSc thesis defenses
- ★ Niki Basilone (Shaw lab) for presenting a research poster and being a session chair at the Feb Keystone Symposium on The Ubiquitin Family in Biology and Disease in Banff, Alberta (see picture):



- ★ Sugitha Janarthanan (Hu lab) for a CIFAR MacMillan Multiscale Human School Travel Award
- ★ Dr. Babatoude Moctard Oloulade (Hu lab) for a Western Research Scholar Award
- ★ Drs. Emma Walker and Bogumil Karas, members of the Karas lab, and colleagues for publication in [Nature Comm](#) (see [CTV News](#) and [Schulich News](#))
- ★ USRI recipients - Maria Cinta Marsolais Hernandez (Heinemann lab), Emma Liu (Andrews lab), Rui Liu (Lu lab), Vaniya Peyghami (Hu lab), and Ruihan Zhong (Shaw lab)
- ★ NSERC USRA recipients - Anna Huang (Li lab), Joseph Kozman (Hallett lab), and Annie Seo (Karas lab)
- ★ DUROP recipients - Cyril Hong (Bishop lab) and Satjitjayan Jagathjayan (Litchfield lab)
- ★ Recipients of NSERC Discovery Grants and RTI Grants (results under embargo)
- ★ Dr. Edgell and colleague for funding from Genome Canada's Genomic Applications Partnership Program ([Schulich News](#))
- ★ Dr. Hegele for the [AFMC Clinician-Scientist Award](#)
- ★ Dr. Heinemann and colleagues for grants from the Rory Belle Foundation and Muscular Dystrophy Canada - Neuromuscular Research Program
- ★ Dr. Hu for an NSERC Alliance International Catalyst Quantum Grant and a Schulich Award of Excellence in Research (Research and Innovation Award: Mid-Career), as

well as being appointed as an Associate Editor of Statistical Analysis and Data Mining:  
The ASA Data Science Journal (ASA: American Statistical Association)

★ Dr. Karas and family for the birth of their first son Cyrus Julian Karas:



## PUBLICATIONS

- Dr. Andrews (AI in single-cell and spatial transcriptomics) (Molecular subtypes in progressive supranuclear palsy) (ApoE4 in Alzheimer's pathology and cognitive decline)
- Dr. Balci (Variants of uncertain significance in ALS) (Genomic secondary findings, clinical care, and patient experience)
- Drs. Boffa, Koschinsky (Lp(a) hypothesis) (Cytosine base editing of LPA in transgenic mice)
- Drs. Connaughton, Hegele (Genetic testing in kidney transplantation and living kidney donor risk assessment)
- Dr. Duennwald (FUS and TDP-43 aggregation in ageing yeast models)
- Dr. Edgell (Cleavage preference in GIY-YIG nucleases)
- Drs. Edgell, Gloor (CRISPR/Cas9 editing in P. tricornutum) (Improving deep learning for sgRNA/Cas9 prediction) (Sequence and methylation determinants of SaCas9-PAM interactions)
- Dr. Garnham (Vaccine candidate against non-typhoidal S. enterica in poultry)
- Dr. Gloor (Scale uncertainty in differential expression analyses using ALDEx2)
- Dr. Hegele (Identification of and therapy for familial chylomicronemia syndrome) (Clinical risk prediction of cardiovascular disease in familial hypercholesterolemia) (Genetic testing in lipid and monogenic diabetes disorders) (Zodasiran and hyperlipidemia) (Plozasiran and familial chylomicronemia syndrome) (Genetic insights from Greenland) (Risk-weighted apolipoprotein B) (Remembering Dr. Janet Powell) (Update on familial hypercholesterolemia from National Lipid Association) (Pediatric hypertriglyceridemia) (Residual lipid risk in atherosclerotic cardiovascular disease)

(Therapies in homozygous familial hypercholesterolemia) (Inclisiran and heterozygous familial hypercholesterolaemia) (Nucleic acid based therapies for dyslipidemias) (Aortic stenosis in homozygous familial hypercholesterolemia) (Severe hypercholesterolemia) (Dyslipidemia and MASLD) (Monogenic hypertriglyceridemia) (APOC3 silencing and cardiovascular issues) (Chylomicronemia in adults) (Updates on cardiogenetic testing) (Linoleic acid diols and type 2 diabetes mellitus) (Zodasiran for treating homozygous familial hypercholesterolaemia)

- Dr. Heinemann (Integrated stress response in Charcot-Marie-Tooth disease)
- Drs. Heinemann, Li (LIN28A and Imatinib resistance)
- Drs. Heinemann, O'Donoghue (Mistranslation from endogenous tRNA variant)
- Dr. Hu (Adiposity in bone marrow in Hodgkin lymphoma) (Cell type classification in single-cell RNA sequencing data) (Rare disease facial image analysis) (Entropy-guided dynamic tokens for graph-LLM alignment in molecular understanding) (Multi-agent collaboration system for antimicrobial peptide design) (Topology-aware framework for interaction prediction in multiplex biological networks) (RADx: hand X-ray rheumatoid arthritis severity assessment tool)
- Dr. Hudson (DNA damage by G-quadruplex ligand and role of Olaparib and PhpC)
- Dr. Karas (Direct genome transfer from A. laidlawii to yeast) (DNA delivery to diatoms)
- Dr. Konermann (Electrosprayed enzyme ions in gas phase)
- Dr. Koschinsky (Lipoprotein(a) testing and impact on clinical care) (Clinical care for patients with elevated lipoprotein(a))
- Dr. Lajoie (HR3/ROR $\alpha$ -mediated cholesterol sensing and TOR signaling) (Longer peptides in proteomics)
- Dr. Li (ULK1 in epithelial ovarian cancer)
- Dr. Litchfield (Platelet casein kinase 2 $\alpha$  in arterial thrombotic occlusion and post-ischemic myocardial remodeling)
- Dr. O'Gorman (Proteomic profiling in pediatric sepsis)
- Dr. Rupar (Ornithine transcarbamylase deficiency) (Coexisting inborn errors of metabolism and gender incongruence)
- Dr. Turley (RHAMM peptide mimetic in capsular contracture)