## HBI, ACHRI & Owerko Centre

## August 28, 2020 Summer Student Symposium

zoom links: https://cumming.ucalgary.ca/summer-student-symposium

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9:00 - 9:10	Opening Remarks	
9:10 - 10:10	10 Minute Oral Presentations - concurrent sessions	
Basic Science Research		
1 Hiba Mahmood	Proliferation of Porcine Undifferentiated Spermatogonia in Co-Culture Conditions	
	Studying reindeer reveals mesenchymal transcription factors that determine whether wounded skin will	
2 Rohit Arora	scar or regenerate	
3 Lauren Coulombe	A Mechanistic Explanation for the Benefits of Exercise in Chronic Neuropathic Pain	
	Non-Invasive Detection of Persistent Brain Hypoxia in Multiple Sclerosis: A Near-Infrared Spectroscopy	
4 Qandeel Shafqat	Study	
5 Marcus Pehar	Dexmedetomidine: A Potential Alternative to Conventional Anesthetics	
Clinical Research		
1 Taylor Groulx	Physical Activity and Psychological Well-Being in Pregnant Individuals During the COVID-19 Pandemic	
2 Isha Gill	Psychological Distress in Youth with Refractory Concussion Symptoms: Identifying Treatment Targets	
3 Riley Bohach	A characterization of the literature on the socioeconomic burden of rare diseases: preliminary results from a scoping review	
4 Divya Goel	Pain in youth with slow recovery from concussion	
	White Matter Microstructure and Externalizing Symptoms in Young Children with Prenatal Alcohol	
5 Irene Manalastas	Exposure	
Translational Research		
1 Abraham Hussein	Online Simulation Curriculum to Prepare Interdisciplinary Medical Teams for Electronic Dance Music Festivals	
2 Claire Rockliff	The effect of concussion education and/or legislation on knowledge, attitudes, beliefs, and behaviours related to concussion management in sport among non-health care providers: a systematic review.	
	Using wearable technology to qualify adherence to a neuromuscular training warm-up in youth	
3 Sartaj Sidhu	basketball athletes	
4 Drooklyn McDougall	Using Quantitative Susceptibility Maps to Compare Baseline Iron Deposits, Brain Atrophy and Cognition of Transient Ischemic Attack Patients	
4 Brooklyn McDougall 5 Jessica Ritchie	Head-mounted accelerometer detects decreased postural stability in self-reported concussion	
10:20 - 10:30	Break	
10.20 - 10.30		
10:30 - 11:30	3 Minute Oral Presentations - concurrent sessions	
1. Computational Methodology/Bioinformatics/Genetics		
1 Ana D'Aubeterre	Invaders of the upper genital tract: conservation between vaginal pathobionts and bacterial STIs	
	In-Vivo Assessment of Intraluminal Thrombus Thickness as Aid for Rupture Risk Estimation in Abdominal	
2 Elize Tran	Aortic Aneurysms.	
3 Samuel Robertson	Lightsheet Microscopy Segmentation for Shape and Cell Proliferation Analysis	
4 Louisa Krile	Electroencephalographic biomarkers and response to theta burst stimulation in major depressive disorder	
E 11 1234	Comparison of the Evenson and Romanzini ActiGraph Algorithms During a Standardized Buffalo	
5 Heidi Morrison	Concussion Treadmill Test in Concussed Youth  Litilizing Brain Computer Interface (BCI) for Robotic Painting	
6 Raziq Kassam 7 James Chen	Utilizing Brain Computer Interface (BCI) for Robotic Painting  Telekinesis in Technology: Using Brain-Computer Interface for Power Mobility	
8 Emma Gillesse	Use of Whole Genome Sequencing to Resolve Suspected Autosomal Recessive Disorders	
C Z.IIIIG GIIICOGC	The state of the s	
9 Caleb Tong	Let's capture the curve: Categorization of Structure-based Constitutive Models for Aortic Wall Tissue	
10 Linda Pallotto	Identifying Genes and Mutations That Contribute to Albendazole Resistance in Nematodes	
2. Pediatrics/Development	and Developmental Disorders  Evaluating the Zero Tolerance for Head Contact & Policy Change on the Incidence of Head Contacts,	
1 Rylen Williamson	Penalties Assessed and Player Behaviour in 13-14 Year Old Ice Hockey Players	
2 Andrew Tran	Radiotherapy and Social Functioning in Survivors of Pediatric Brain Tumor	
2 Andrew Hall		
3 Stella Heo	Individualization of Functional Neural Networks During Early Childhood	
	Individualization of Functional Neural Networks During Early Childhood Rates and types of posttraumatic headache after pediatric mild traumatic brain injury	
3 Stella Heo	Rates and types of posttraumatic headache after pediatric mild traumatic brain injury	
3 Stella Heo 4 Mica Marbil 5 Alexis Cairo	Rates and types of posttraumatic headache after pediatric mild traumatic brain injury  High Participation and Injury Rates in Female Youth Team Sports: An Opportunity for Prevention	
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3 Stella Heo 4 Mica Marbil 5 Alexis Cairo	Rates and types of posttraumatic headache after pediatric mild traumatic brain injury  High Participation and Injury Rates in Female Youth Team Sports: An Opportunity for Prevention	

8 Janelle Wai	Autism Spectrum Disorder and Wearable Technology: Validation of a Health Gauge Watch
9 Ethan Kao	A Candidate Gene Study of Obsessive-compulsive and Internalizing Behaviours in Childhood OCD
10 Zainab Osman	Assessing the Inter-rater Reliability of Google Street View Auditors Investigating Child Bicyclist Injury Sites in Three Canadian Cities
3. CNS injury/Neurodegene	eration/Mental health
, one, , , ,	Effects of ATP and interleukin-1beta on inflammation and neurodegeneration in the spinal cord white
1 Sara Xue	matter of mice
2 Bhanvi Sachdeva	Uncovering the Role of the Cerebellum in Higher Cognition and Cognitive Disorders
3 Ayden Hansen	Increased NIRS Light Scattering in the MS Population - Possible Physiological Insight into the MS Brain
	Development of a clinically viable multimodal neuroimaging protocol: Integration of
4 Steven Jiang	electroencephalography.
5 Rafael Sanguinetti	National Survey of Mental Health and Suicide in People with Spinal Cord Injury
6 James Baysic	Using wearable technology to investigate soccer players movement patterns during change of
	direction maneuvers
	Mild Behavioral Impairment is Associated with Dual-Task Gait Cost: Results from the COMPASS-ND
7 Dylan Guan	Study  The import of inverseling and proposition for the proposition of average accordance and with proposition for the proposition of average accordance and a second sec
8 Monika Sohal	The impact of journaling as a prescription for the management of symptoms associated with mental illness: A Systematic Review and Meta-Analysis
	Developing a two-way mobile communication platform for spinal cord injury and other neurological
9 Muhammad Malik	conditions.
10 Raven Yip	Evaluating sleep in adults with persistent post-concussion symptoms
4. Population and Commur	nity Health/Epidemiology
	Examining Inter-rater Reliability of Google Street View when Assessing Road Characteristics on Child
1 Sarina Aryal	Bicycling Routes Leading to Injury
2 Ally Sobry	The Concussion and Injury Burden in Sledge Hockey: Considering Grassroots to Elite Participation
2 Harrisch Coudaid	Walking aid training as a clinical competence in Canadian academic entry to practice programs
3 Hannah Curlock	Walking aid training as a clinical competence in Canadian academic entry-to-practice programs  Communication Technology Use, Age, and Depressive Symptoms during COVID-19
4 Catherine Lowe 5 Sarah Graver	Are ultra-short-term measures a valid surrogate for short-term heart rate variability metrics?
6 Julianna Park	Prevalence of Multiple Forms of Sexting Behavior Among Youth: A Meta-Analysis
6 Julialilla Park	Effects of Mindfulness-based Cognitive Therapy (MBCT-PD) on Cortisol Levels in Pregnant Women
7 Jeshna Kumari	Suffering Psychological Distress
8 Brooklynn Fernandes	Optimizing the Diagnosis and Management of Dementia within Primary Care
9 Srijal Gupta	Injuries, risk factors and prevention strategies in BMX: A Scoping Review
10 Claire Wamboldt	Parkour Wall Run Take-Off
5. Cellular, Molecular and I	Microbial Biology/Immunology and Inflammation
1 Mania - Liv	
I MARINA IIII	Characterization of immune cells within the tumor microenvironment of gliphlastoma mouse model
1 Marina Liu 2 Fatima Saleem	Characterization of immune cells within the tumor microenvironment of glioblastoma mouse model  Unrayeling the role of monocytes in infection and inflammation
1 Marina Liu 2 Fatima Saleem	Unraveling the role of monocytes in infection and inflammation
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Fatima Saleem     Mikyla Callaghan	Unraveling the role of monocytes in infection and inflammation  The plasticizer, bisphenol S, potentiates adipogenesis via DNA methylation with potential link to oxidative stress  Engineering Rhodotorula toruloides to degrade cellulose: a synthetic biology solution to Vitamin A Deficiency
Fatima Saleem     Mikyla Callaghan	Unraveling the role of monocytes in infection and inflammation  The plasticizer, bisphenol S, potentiates adipogenesis via DNA methylation with potential link to oxidative stress  Engineering Rhodotorula toruloides to degrade cellulose: a synthetic biology solution to Vitamin A Deficiency  Hidden truth about Atopobium vaginae: defining the functional diversity of three novel pathobionts
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2 Fatima Saleem  3 Mikyla Callaghan  4 Simran Sandhu  5 Azin Dolatabadi  6 Nimaya De Silva 7 Hanji Baek 8 Nilakshi Debnath 9 Nicole Joe  10 Julia Casorso  1:30 - 12:30	Unraveling the role of monocytes in infection and inflammation  The plasticizer, bisphenol S, potentiates adipogenesis via DNA methylation with potential link to oxidative stress  Engineering Rhodotorula toruloides to degrade cellulose: a synthetic biology solution to Vitamin A Deficiency  Hidden truth about Atopobium vaginae: defining the functional diversity of three novel pathobionts  The Development of Complementary Auxotrophic Strains As a Biocontainment Strategy For Genetical Engineered Organisms  (Review) The Yin and Yang of LPS in the Brain  Opsins; Illuminating Circadian Rhythms  Serum Cytokine Concentration and Clinical Outcomes Following Traumatic Brain Injury  Assessing natural sources of ethanol in wild primate foods: testing key predictions of the dietary exposure hypothesis  Lunch Break
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2 Fatima Saleem  3 Mikyla Callaghan  4 Simran Sandhu  5 Azin Dolatabadi  6 Nimaya De Silva  7 Hanji Baek  8 Nilakshi Debnath  9 Nicole Joe  10 Julia Casorso  1:30 - 12:30  2:30 - 13:45  1. Computational Methodo  1 Leslie Cao	Unraveling the role of monocytes in infection and inflammation  The plasticizer, bisphenol S, potentiates adipogenesis via DNA methylation with potential link to oxidative stress  Engineering Rhodotorula toruloides to degrade cellulose: a synthetic biology solution to Vitamin A Deficiency  Hidden truth about Atopobium vaginae: defining the functional diversity of three novel pathobionts  The Development of Complementary Auxotrophic Strains As a Biocontainment Strategy For Geneticall Engineered Organisms  (Review) The Yin and Yang of LPS in the Brain  Opsins; Illuminating Circadian Rhythms  Serum Cytokine Concentration and Clinical Outcomes Following Traumatic Brain Injury  Assessing natural sources of ethanol in wild primate foods: testing key predictions of the dietary exposure hypothesis  Lunch Break  Poster Presentations - concurrent sessions  Pology/Bioinformatics/Genetics  Reindeer and humans share mesenchymal cell states that predispose wounds towards scarring or regeneration  Evaluation of Two Different Software Packages to Identify Aorta-Specific Differentially Methylated Regions of DNA

	The impact of primary immunodeficiency informed molecular landscape on the biology and prognosis of	
6 Andy Tran	refractory childhood and adult malignancies	
7 Nadia DiMarzo	Characterizing zebrafish harboring mutations for an ultra-rare pediatric epilepsy	
	Description of neurodevelopmental phenotypes associated with pathogenic variants in ten genes: A	
8 Harshil Shah	Scoping Review	
9 James Gardner	Algorithm for the Automated Detection of Ventilatory Thresholds  A Systematic Review of the Effect of Transcranial Direct Current Stimulation (tDCS) on Reinforcement	
10 Olesya Dmitrieva	Learning and Risky Decision-Making in Healthy Young Adults	
	Genetic predictors of mental health outcomes in young, socially isolated individuals amongst the COVID-	
11 Parker Townes	19 pandemic: a systematic review	
2. Pediatrics/Development a	and Developmental Disorders	
1 Brandon Huynh	Functions of nitric oxide in mouse testicular development	
2 Chloe Fichter	The role of the gut microbiota in birth condition-associated cognitive outcomes	
3 Kira Feighan	Impacts of gestational BPA exposure on adult hypothalamic neurogenesis	
4 Faith Keister	Targeting cerebral perfusion to prevent intraventricular hemorrhage in extremely preterm neonates	
5 Marina Ferreira 6 Shannon Oosterbaan	Mood and food in preschoolers: Links between fiber intake and explosive emotional behavior Inhibitory Control in Preschool Children: Performance-Based Vs. Parent-Report Measures	
6 Shannon Oosterbaan	How Working Memory and Attention is Related to Cortical Thickness in Children with Attention-	
7 Elana Sarabin	Deficit/Hyperactivity Disorder	
8 Dong Mei Hou	Automating Cross-sectional Area Measurement of Lateral Ventricles	
	Does atypical sensory sensitivity associate with social and behavioural symptoms in children with and	
9 Maia Ross	without ASD?	
	How does a sport related concussion affect physical activity in adolescent population: A Systematic	
10 Kailey Newel	Review	
44. A Ch	Laving the foundation to promote physical activity for shildren and adelegant affected by conser	
11 Amy Chen 12 Shinde Karan	Laying the foundation to promote physical activity for children and adolescent affected by cancer  Assessment of Cortical Morphology After Perinatal Stroke	
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3. CNS Injury/Neurodegener		
1 Care Harrel	Cerebrovascular Reactivity to Carbon Dioxide in Patients with Cerebral Amyloid Angiopathy and Alzheimer's Disease	
1 Sara Housh 2 Nina Pavlovic	The Effect of Fatigue on Head Impact Biomechanics in Professional Rugby League Athletes	
3 Moriah Edge-Partington	The Effects of Early Life Stress on the Serotonin System	
	The Influence of Tackling Technique on the Magnitude of Head Impact Accelerations in Professional	
4 Hannah Smith	Rugby League Athletes	
5 Jason Yip	Analysis of stroke recovery using two robotic assessments of rapid motor decision making and action	
6 Ali Babwani	Understanding the Overlap and Distribution of Motor Maps in Children	
7 Jerald Yuan	Gait Variability in Cerebral Amyloid Angiopathy and Alzheimer's disease  Determining the relationship between the Chedoke McMaster Stroke Assessment and a visually guided	
8 Arijit Lodha	reaching task in individuals with stroke.	
o ranjie Eduna	The relationship between salivary cortisol levels and telomere lengths following pediatric sport-related	
9 Jake Ruschkowski	concussion	
	How does sport-related concussion alter EEG measures and affect fNIRS assessments; findings from two	
10 Megan Wilson	Systematic Reviews	
	Evaluating the effects of transcranial magnetic stimulation using functional connectivity in individuals	
11 Lydia Cho	with Post-traumatic stress disorder (PTSD)	
12 Davis May 111	Repetitive Transcranial Magnetic Stimulation (rTMS) as a Treatment for Attention Deficit Hyperactivity	
12 Daria Merrikh	Disorder (ADHD): A Systematic Review	
4. Population and Communi		
1 Monica Russell	Effect of Axillary Crutch Length on Triceps Activation During Swing-Through Gait	
2 Jaclyn Anderson	Window of opportunity: sexual swellings as ovulatory signals in the olive baboon	
3 Benjamin Leggett 4 Tiffany Pham	Assessing postural stability using wearable technology in youth soccer players  Patterns of Cannabis Use Before and After Legalization in Canada	
5 Tyler Yip	Benefits of Cyclist Green Wave Systems using Wearables	
6 Aisha Iqbal	Promoting Better Cardiovascular Health in Calgary	
1,200		
7 Stephanie Bernier	A Systematic Review of School-Based Interventions to Improve Peer Relationships for Children with ASD	
8 Akash Khaira	Understanding Chronic Pain from Knee Osteoarthritis after Total Knee Arthroplasty	
9 Amy Braun	Bullying and Social Functioning, Schemas, and Beliefs among Youth at Clinical High Risk for Psychosis	
	The Reliability and Validity of Google Street View for the Assessment of Intersection Characteristics on	
10 Anjola Adeboye	Child Bicyclist Routes  Comparing the Efficacy and Safety of Opahatulinumtovin A Injections in the Treatment of Idionathic	
11 Kate Manns	Comparing the Efficacy and Safety of OnabotulinumtoxinA Injections in the Treatment of Idiopathic Overactive Bladder between Relatively Younger and Relatively Older Patients	
12 Robert Graham	The Effect of a Rule Change on Injury and Concussion Prevalence in Youth Volleyball	
5. Cellular, Molecular and Microbial Biology/Immunology and Inflammation  1 Peter Gobran Infant DNA methylation and upper respiratory infections at 18-months of age		

2 Kate Armstrong	Optimization of a robust pipeline to detect subtle changes in microglia morphology and activation states in germ-free mice
3 Ali Javed	Analysis of protein-protein interactions between fungi and mice via computational systems
4 Harleen Sanghera	A Brief Parenting Intervention and Mother-Child Immune Cell Gene Expression: A Randomized Control Trial
4 Harieen Sangnera	i i i ai
5 Rylie Essington	Diagnostic Patterns seen in Non-Progressive, Childhood Primary Angiitis of the Central Nervous System
6 Shi Hyun Jeong	A Novel Strategy to Treat Cardiac Dysfunction Associated with Acute Myocardial Infarction
7 Ye-Jean Park	Mutations of C. elegans morphogenesis
	Gestational Bisphenol A Exposure Induces Sex Specific Microglial Changes in the Embryonic
8 Nikol Tretiakov	Hypothalamus
9 Arzina Jaffer	Tissue-resident fibroblasts exacerbate local inflammation during fibrotic skin wound healing
10 Tina Ram	Primary Cilia impact on Astrocyte Development
13:45 - 14:00	Break
14:00 - 15:00	<b>Keynote speaker</b> Dr. Pierre Wijdenes, PhD: Postdoc, Biomedical Engineering Graduate Program
15:00 - 15:45	Awards & Closing Remarks