



March 19 - 20, 2022

MULTIDISCIPLINARY UNDERGRADUATE RESEARCH CONFERENCE

2022 PROGRAM GUIDE

Last updated: March 16, 2022

LAND ACKNOWLEDGEMENT

The lands of what is now known as British Columbia have been cared for and inhabited by Indigenous Peoples since time immemorial. We specifically acknowledge that UBC's Vancouver Point Grey campus is situated on the traditional, ancestral, and unceded territory of the $x^w m \partial k^w \partial y \partial m$ Musqueam people, and UBC's Okanagan campus is situated on the traditional, ancestral, and unceded territory of the Syilx people. It is in this recognition of being on unceded land where we will ground our conversations of race and racism further.

We also acknowledge that given the hybrid format of this year's conferene, MURC participants will be joining this conference from many places, near and far, and we also acknowledge the traditional owners and caretakers of those lands.

<u>Learn more: What is a land acknowledgement?</u>



WHAT IS MURC?

The Multidisciplinary Undergraduate Research Conference (MURC) is an annual celebration of undergraduate research happening on the UBC campus. Student researchers showcase their research in an oral or poster presentation format. Work presented at the conference includes undergraduate theses, directed studies and other faculty-supervised research projects.

This year, the theme for MURC is 'Inspire Change.' By leaving the known and embracing the unknown, we can not only learn more about each other, but the world as a whole. As we transition into a new stage of existence, it is crucial that we not only embrace change in favour of creating a better tomorrow, but approach it in a manner that inspires new generations to see change as an agent of positivity and growth, rather than one of fear.

MURC 2022 is excited to feature 512 presenters from 15 different schools and faculties.



PRESENTATION THEMES

Research presentations fall under four (4) themes.

Health and Wellness

- Addressing social determinants of health and how these affect health outcomes across different populations and communities
- Engaging with wellbeing in its various dimensions, including but not limited to traditional biomedical measurements and interventions

Innovation and Technology

- Creating and/or applying novel technologies to develop enhanced solutions that contribute to society
- Identifying the social and ethical impacts of different innovations

Sustainability and Conservation

- Addressing global challenges in the areas of food security, biodiversity, demand for energy and water, and prevention of environmental degradation to fight climate change
- Aiming to achieve a better and sustainable future for the world through social and ecological interventions

Individual, Community and Society

- Addressing social challenges on local and/or global scales, and advocating for social and ecological justice
- Working towards building a society in which the dignity of all people is respected, and equity and inclusion are embedded into society
- Engaging with communities and/or organizations to explore and address relevant issues related to social, political, and/or economic challenges



SCHEDULE

March 19, 2022

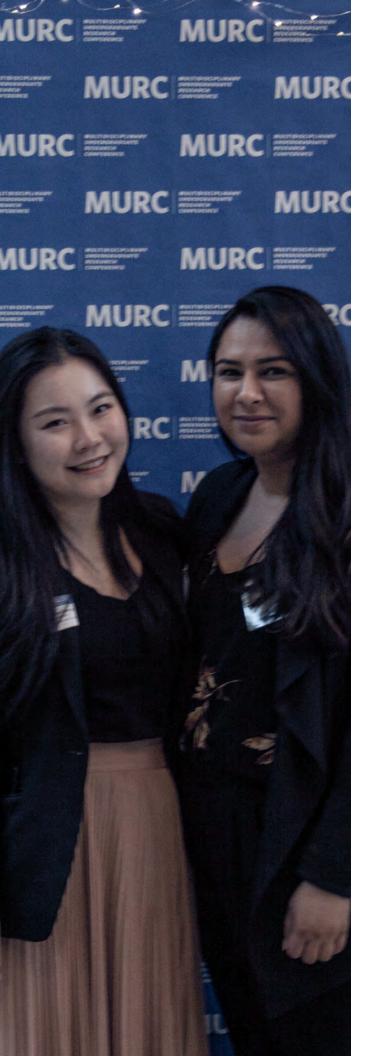
Time	Event	Location
8:00 AM - 8:45 AM	Delegate Registration	CIRS Lobby
	Poster Presenter Registration	Marine Drive Lobby
	Oral Presenter Registration	West Mall Swing Space
9:00 AM - 9:45 AM	Opening Remarks <u>Keynote (Dr. Jennifer Grenz)</u>	CIRS 1250, Virtual
10:00 AM - 11:15 AM	Wave 1 Poster Presentations	Marine Drive Ballroom
	Wave 1 Oral Presentations	SWNG 105, 107, 109, 207
11:30 AM - 12:45 PM	Wave 2 Poster Presentations	Marine Drive Ballroom
	Wave 2 Oral Presentations	SWNG 105, 107, 109, 207
1:00 PM - 2:00 PM	Lunch & Panel Session Inspiration Through Innovation	CIRS 1250, Virtual
2:15 PM - 3:30 PM	Wave 3 Poster Presentations	Marine Drive Ballroom
	Wave 3 Oral Presentations	SWNG 105, 107, 109, 207
3:45 PM - 5:00 PM	Wave 4 Poster Presentations Wave 4 Oral Presentations	Marine Drive Ballroom SWNG 105, 107, 109, 207

SCHEDULE

March 20, 2022



Time	Event	Location
7:30 AM - 8:00 AM	Registration	Online (Zoom)
8:00 AM - 9:15 AM	Virtual Wave 1 Presentations	Online (Zoom)
9:30 AM - 10:15 AM	Ask Me Anything Q&A <u>Applying to Graduate Studies</u>	Online (Zoom)
10:30 AM - 11:45 AM	Virtual Wave 2 Presentations	Online (Zoom)
12:00 PM - 12:45 PM	Delegate Registration	Marine Drive Atrium
	Presenter Registration	West Mall Swing Space
1:00 PM - 2:15 PM	Wave 5 Poster Presentations	Marine Drive Ballroom
	Wave 5 Oral Presentations	SWNG 105, 107, 109, 207
2:30 PM - 3:45 PM	Wave 6 Poster Presentations	Marine Drive Ballroom
	Wave 6 Oral Presentations	SWNG 105, 107, 109, 207
4:00 PM - 5:30 PM	Workshop & Closing Remarks Rogers 5G Research & Closing Remarks	ESB 1013, Online (Zoom)



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KEYNOTE SPEAKER

Dr. Jennifer Grenz

Jennifer is an Assistant Professor and Indigenous Scholar in the Department of Forest Resources Management jointly appointed between the Faculty of Forestry and Faculty of Land and Food Systems at UBC. Jennifer is an edge-walker that works between two worlds, Indigenous ways of knowing and Western science. She is pushing the bounds of science to work beyond a singular worldview helping others to "make the old new again" by applying a relational lens. Her scholarly work challenges us to think differently about our role in ecosystem management and managing food systems (agrarian and traditional) as we face a changing climate.

Jennifer has a B.Sc in Agroecology from UBC, and from there, went on to a nearly two decade career working on ecological restoration, invasive species management, and science communication for non-profit organizations and all levels of government. She is an internationally well-known speaker on innovations in environmental advocacy and awareness. She completed her PhD in Integrated Studies in Land and Food Systems at UBC in 2020 focused on the application of an Indigenous worldview to ecology and invasion biology. A trade book version of her dissertation titled, "Medicine Wheel for the Planet", is being published by Knopf Canada (imprint of Penguin Random House). Jennifer is an Associate Editor for "Environmental Science & Policy" working to make space in academic publishing to amplify the scholarly work of underrepresented voices. As a proud Nlaka'pamux woman of mixed ancestry, whose family comes from the Lytton First Nation, Jennifer takes time to continue the traditions of her great grandmother and grandmother as a gifted textile artist and grower of foods and medicines.



PANELISTS



Ife AdebaraPhD Candidate

Ife is a PhD candidate at UBC. Her research is focused on the intersection of linguistics and computer science, more specifically on how deep learning methods developed for high resource languages, such as Natural Language Processing, can be adapted for languages in which fewer resources are available. Through these advancements, Ife hopes to improve diversity and inclusion in technology.

Chloe Gao *MD/PhD Candidate*

Chloe is a current MD/PhD candidate at UBC. Through her diverse research experience working with the McMaster Health Forum, Waypoint Centre for Mental Health Care, and St. Michael's Hospital among others, she developed an interest in mental health service redesign. During her training, she will work with Foundry where she hopes to advocate for various groups and communities and to integrate their unique perspectives into improved mental health programs and policies.



Shayda Swann *MD/PhD Candidate*

Shayda is passionate about scientific research and the ways that she can integrate her research pursuits into her medical practice with patients. Shayda's research is focused on determining how hormones affect aging, and more specifically the development of age-related comorbidities in women with HIV. She hopes to investigate this potential relationship by comparing hormone abundances with rates of comorbidities, taking into account other social determinants of health. She hopes that her work will improve the quality of care for women living with HIV.

ROGERS COLLABORATION

Rogers has kindly sponsored MURC 2022. With their support, we are pleased to host a keynote workshop on its nation-leading 5G, or fifth generation, network. This session will provide an introduction to the benefits of 5G over its predecessors, how it achieves those improvements, and some of the exciting opportunities that this network brings. This session will be facilitated by Jonah Eisen and Zihan Wang.



Johan Eisen

Jonah joined Rogers in September 2021 and has spent his first 6 months coordinating research projects in the Rogers-University of Waterloo 5G partnership. Jonah obtained his BASc in Mathematics & Engineering from Queen's University in 2019, including a 12-month internship at Defence Research & Development Canada in Ottawa. He graduated with his MASc in Electrical & Computer Engineering from the University of Waterloo in 2021, where he researched Information Theory.

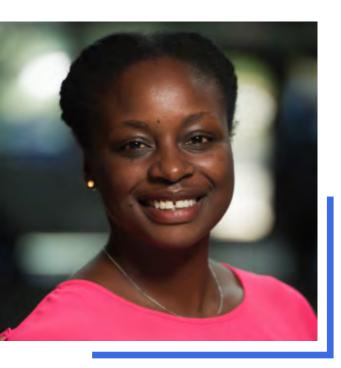
Zihan Wang

Zihan Wang is a New Grad Technology at Rogers
Communication, where Zihan provides technical and business
analysis to support the strategic planning of the Wireless and
Wireline Networks. She has graduated from Ivey Business
School in Data Analytics. She performs technical and economic
analysis for Spectrum auctions to drive valuations and
deployment timing for new spectrum auctioned off by the
Government of Canada.



ASK ME ANYTHING SESSIONS

Connect with Ijeamaka and ask your burning questions about research.



Ijeamaka Anika *PhD Candidate*

Ijeamaka Anika is a Ph.D. student at Peter A. Allard School of Law, where she completed her LLM as a recipient of the Allard Scholar Graduate Fellowship. During her Ph.D. studies, Ijeamaka is examining the influence of international criminal law jurisprudence on sexual and gender-based violence in domestic jurisdictions, building on feminist legal theory, governance, social rights, and cultural anthropology. Prior to attending UBC, Ijeamaka held a teaching position at the University of Nigeria Nsukka, and obtained her LLB (Hons) from Oxford Brookes University and an LLM in Public International Law from University College London.

FEATURED PROGRAMMING

Scavenger Hunt

Take part in MURC's online scavenger hunt while navigating through the different events and presentations this year. Those that complete half of the objectives will be entered into a raffle for one of six \$25 e-gift cards. The scavenger hunt will be hosted on Canvas and is open to current UBC students.

Research Trivia

Take a break from presentations and join us for our MURC 2021 Research Trivia session! Test your knowledge on categories ranging from research methods and prominent researchers, to social issues and big discoveries in different fields of research. The winner will receive a \$25 e-gift card!

ACKNOWLEDGEMENTS

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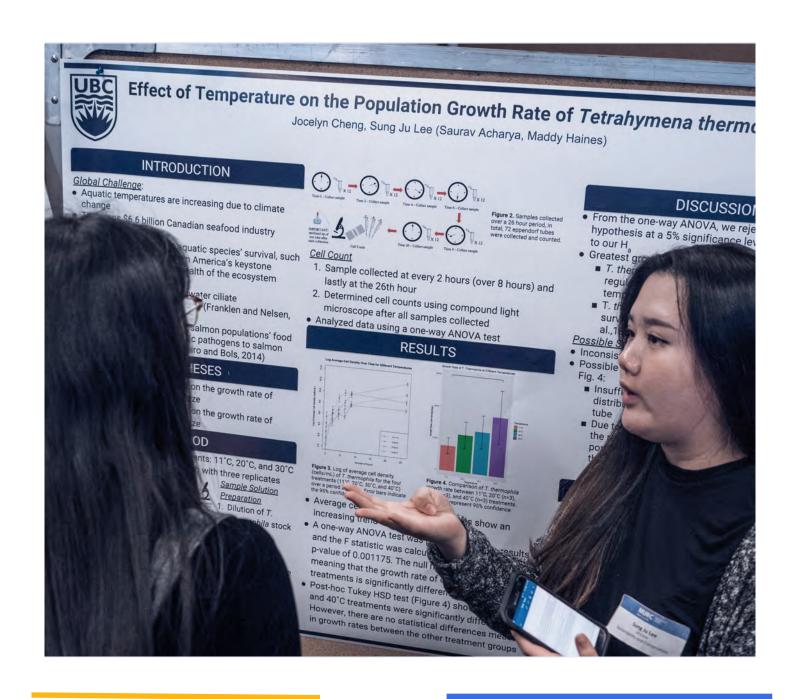
Varun Shah

Veronika Larsen

Virginie Jean-Baptiste

Xi Ren

Xuesen Dong



WAVE 1 ORAL & POSTER PRESENTATIONS

WAVE 1 ORAL PRESENTATIONS

SWNG 105

The effect of repeated pain and sucrose exposure on IGF-1 and IGFBP-3 levels in neonatal mice

Donna Seraj

Adrenal Insufficiency in Pediatric Kidney Transplant Recipients

Harry Chae

RACK1 reduction improves motor function and lifespan in an in vivo TDP-43 ALS model

Ananya Saraph

Lasting impact: Examining the association between quality of the therapeutic relationship and distress following psychotherapy termination for men and the mediating role of existential isolation

Quinn Storey

Does doxycycline antibiotic improve symptoms compared to nasal saline and/or nasal corticosteroids in a randomized controlled trial with adult patients with type 2 inflammatory CRS.

Candace Lam Jennifer Ge Atheee Bidawid

SWNG 107

Analysis of Dendritic Arborization Neurons in the Yellow Fever Mosquito (Aedes aegypti)

Maryann Rogers

A Narrative Review: Are there any differences in microRNAs expression pattern among different brain regions in Alzheimer's disease (AD)?

Emily Chen

Characterizing Heat Transfer During Water Jet Cooling

Karan Santuka Ben Monckton

Modeling Complex Q-ball Collisions in 2-Dimensions

Muchen He Wei Tai

Mobile Device Usage Before and During the COVID-19 Pandemic

Livia Jonnatan

SWNG 109

Characterizing Ring D Hydrolysis in the Mycobacterium tuberculosis Cholesterol Catabolism Pathway

Asana Imanpour

Suitability of a Post-Operative Bariatric Nutrition Teaching Tool

Patricia Angeles Clare Douglas Alexandra Soanes Alexandra Heidl Yolanda Wang

Inter-Organelle Communication: An Insight into ER-Mitochondria Contacts (MERCs)

Sana Ahmed

SWNG 207

(Re)Discovering my Blackness: An Inquiry into the Decolonization of the Mind in Vancouver's Black Afro-Diasporic Community

Rehema Ivan

Development of Curricular Standards for Physical Activity Counselling and Prescription for People with Physical Disabilities Chihiro Abe

Cytochrome P450-Reductase Fusions for Upgrading Lignin

Jerry He

WAVE 1 POSTER PRESENTATIONS

Theme: Innovation and Technology

Small fruits aroma, what is known and why does it matter?

Brian Low Denise Chew Mido Luo Vania Kwan

Using Benford's Law to Assess Biodiversity Datasets

Yolanda Wu

A Novel Bisphosphonate-Ligand Conjugate for Bone-Targeted Lead Chelation and Suppression of Osteoclast-Mediated Bone Resorption

Mohammed Al-Seragi

Theme: Individual. Community, and Society

How do the methodologies employed in chemical residue analysis of ceramic vessels found in archeological sites in the Americas impact the current state of knowledge regarding the consumption of caffeinated beverages in these communities?

Sofia Colmenares Jennifer Zhu Mina Lander

Rural Community Resilience Project

Shanzeh Chaudhry Payal Parti Angela Yang

The Novel UBC Health Advocacy Framework in Pharmacy Student Practice

Mojan Fazelipour Amy Dhatt

Theme: Sustainability and Conservation

Investigating neurosteroids and territorial aggression in a juvenile avian model using LC-MS/MS

Emma Lam

Potential impact of fertilizer source on soil health and maize yield in lower Western Africa

Visal Saosuo Jessica Wijaya

Arrival Dates of Transient Killer Whale Matri-groups in the Salish Sea

Zihan Li

Economic feasibility of precision restoration on intensive agricultural lands of Iowa

Chuyi Zheng Wenwen Wang Zefan Liu

Theme: Health and Wellness

A Proposed Study to Investigate the Effects of Early Life Gastrointestinal Bacterial Infection on Brain Function

Veronika Lewis Simran Chahal Divya Gupta

THE EFFECT OF STRUCTURAL ENRICHMENT IN MALE MICE: A SYSTEMATIC REVIEW

Carly Hilbert Bridget Woods

Best practice recommendations for providing abortion care to diverse populations: A scoping review.

Parveer Pandher Anahita Seraji Juliette Sachet Nyla Kathol Kristina Kurvits

Association Between Objective and Perceived Climate Vulnerability and Reported Stress in Metro Vancouver

Georgia Green Leah Isfeld Doris Sun

Does stress lead to a buildup of fatty acids that can increase risk of aortic aneurysms?

Justin Wong

ADHD Symptoms, Social Media Use, and Social Media Intensity Before and After the COVID-19 Pandemic

Gian Hermosura

Inflammatory factor, IL-1Î², and diabetes; will it save you?

Isabelle Beggs Gazelle Sokhanran

Frontotemporal Dementia: a deeper dive into genetic status

Brianna Hou Ria Bhatt Kyrstin Lavelle

Investigating the impacts of glutamate receptor modification on Alzheimer's Disease

Sahibjot Daula Teaya Cabael Gurleen Litt

Counteracting the downregulation of the DCK gene to treat chemoresistance in AML patients

Catherine Wang Georgia Langdon Vanessa Lee

Inhibition of Platelet-Derived Growth Factors to Improve Acute Myeloid Leukemia Treatment.

Frederick Wang

Effectiveness of Backset Guidelines for Children in Booster Seats to Prevent Whiplash Associated Disorders Genevieve Ah-Sen

WAVE 2 ORAL & POSTER PRESENTATIONS



WAVE 2 ORAL PRESENTATIONS

SWNG 105

COVID-19 vaccine hesitancy in Africa: A scoping review Sangwook Michael Woo

Investigating the Role of ASD-risk Gene Orthologs in Habituation at 10s and 60s inter-stimulus intervals using C. elegans

Douglas Forrest Isabel Wilson

The Machine Learning Approach to Breast Cancer Subtype Classification

Rongxi Du Blaise Appolinary

Development of a safe immunogenic cell death-inducing vaccine for efficient treatment of breast cancer

Raha Masoudi Ali Nasserikhameneh Prannav Jain

SWNG 107

Racialized Settlers and Their Role in Truth and Reconciliation Peter Fang

Wandering in The Digital Age: How Does Out-of-home Mobility Impact Mood and Cognition in Young Adults?

Isaac Koenig-Workman

The Epistemology of Fetishizing Asian Women: The role of media, militaries, and moral panic in White violence

Blossom Cheng

Ungifted: Gifted Students' Identity and Career Development in Post-Secondary Education

Rachel Dupras

Spatial Legitimacy in Nehru's India: does secular space restrict subaltern sovereignty?

Anupriya Dasgupta

SWNG 109

Examining sustainable management strategies for Marine Protected Areas and No Take Zones

Nayanika Gunvante

Feasibility of Using Mine Tailings to Sequester Carbon Dioxide in Canada's Nickel and Diamond Mines

Harris Rana Sarah Chan Jarod Finnie

Abundance and composition of the potential prey community of web building spiders are impacted by ecosystem succession and microhabitat characteristics

Aliye Sasmaz

Clarity or Confusion: A qualitative Analysis of Social Media Data to Gauge Post-Secondary Students' Perceptions of COVID-19 Protocols On-campus Asha Octoman Maira Hosain Evi Dorsch Callum MacIntyre

Investigating the Effects of Elevation on Plant-Insect Interactions in Lupinus latifolius

Juniper Malloff

SWNG 207

Effects of positive reinforcement training on mouse anxiety during restraint

Maya Bodnar

Comparing NED and SIMBAD classifications across the contents of nearby galaxies

Lucas Kuhn

INTACT (RetINal Toxicity And HydroxyChloroquine Therapy): A Pilot Study Using Ophthalmologic Image Transfer to Expand Access to Early Retinopathy Screening Jeremiah Tan

WAVE 2 POSTER PRESENTATIONS

Theme: Innovation and Technology

Optimizing the Reliability of Wind Turbines Power Generation

Tim Chang Arian Arian Kent Wu

Development of an Omnidirectional Surrogate Neck

Genna Bonnor

Normal Map Estimation for Pixel Art Images

Roark Zhang

Theme: Individual. Community, and Society

Understanding Canadian Perspectives Regarding the Deemed Consent Model for Deceased Organ Donation

Arjun Hothi Hothi Jay Banwait Banwait Mika Pascual Pascual

Theme: Health and Wellness

Perspectives of Hospital Pharmacists on Quality Improvement Initiatives in Patient Care

Ting-An Cheng

DEVELOPMENT OF A COMPREHENSIVE BIOMARKER ATLAS IN AN ANIMAL MODEL OF ALZHEIMER'S DISEASE

Angela Mathews

Bone density variance compared to prototypical white standards as a cause for implant instability and postoperative complications in Black and Hispanic populations. Joyce Xi Kriti Verma Rosaline Baek

Anxiety in Rats Following a Period of Sobriety after Adolescent THC Exposure

Gloria Klein

Creation of Educational Material and Implementation of the TLC-Act Drug Interaction Management Tool in Pharmacy Education.

Val Carvalho

Investigating the role of the VISTA protein in the inhibition of CD8+ T cells by myeloid-derived suppressor cells in a mouse model of pancreatic cancer

Jenny Zhao

Theme: Health and Wellness

Investigating the Role of Employment Services, Mental Health, and Substance Use Recovery in Vancouver's Downtown Eastside Utilizing a Reflexive Approach

Kiana Popplewell

Hope for spinal cord injury patients: novel drug administration for treatment of spinal cord injury

Sana Samadi

An Examination of Depression and Anxiety Prevalence in Patients With Cystic Fibrosis in Vancouver

Moha Chaturvedi

Risk factors attributing to the rise in the incidence of colorectal cancer in Iran

Nima Danaei

The Impact of Genistein on the m6A RNA Demethylase ALKBH5 in Hepatocellular Carcinoma

Dahlia Parolin Yuexi Ma Natasha lanicheva

The Association of Severe Mental Illness Disorders with Cervical Cancer Screening Frequencies in British Columbia

Aiman Atif Tina Huynh Zein Hedayati

The impact of Blood Flow Restriction exercise on post-op muscle development in athletes

Lila Bullock

MULTI-ANALYSIS OF ACE2 VARIANTS REVEALS INSIGHTS INTO COVID-19 DISEASE PATHOPHYSIOLOGY IN SUSCEPTIBLE POPULATIONS

Ryan Hong

A proposed mechanism of cardiotoxicity induced by the interaction of the chemotherapeutic medication Etoposide, ICRF-193 and Topoisomerase-2 (TOPO2).

Christopher Fischer-Labastida

Pleasure in Pain: A Scoping Review on Potential Biological and Developmental Origins of Sexual Masochism

Cindy Zhang

Joud Tougan

WAVE 3 ORAL & POSTER PRESENTATIONS



WAVE 3 ORAL PRESENTATIONS

SWNG 105

Loneliness, Social Support, and Suicidal Ideation in Autistic Youth During the Transition to Adolescence Raymond Li

Designing a safe personalized nanovaccine with therapeutic and prophylactic role against breast cancer

Julian Tolentino Varun Kahlon Riddhi Jain

Exploring the effects of ambient near-infrared radiation on cognitive performance and heart-rate variability

Christine Seo

Barriers and facilitators to implementing a physical activity coaching and referral intervention among physiotherapist and spinal cord injury peer coaches Marisa Lin

Impacts of the medical binary model on non-binary experiences accessing healthcare and in the transgender community in British Columbia.

Morgan McCulloch

SWNG 107

Data-Driven Prospective Virtual Pre-Planning of Mandibular Reconstruction Surgery

Maharshi Panchal

Seeking novel therapies using CDK4/6 inhibitors in low grade serous ovarian carcinomas

Josh Yang

Post-secondary students' perspectives and experiences towards campus-based e-mental health services

Kate Seo Camila Ferreira Angel Tung Guilherme Adan

Investigating the extracellular ligands for Dystroglycan protein involved in Wrapping Glia formation in Drosophila melanogaster

Henry Luo

Algorithm-Aided Matching of an On-Reserve Food Retail Dataset to the Canadian Nutrient File

Alisha Buttar Priya Sian Emily Ho Jesman Punian Amy Dong Abeera Irfan

SWNG 109

Generative Adversarial Network (GAN) for Simulating Electroencephalography

Priyanshu Mahey

Integrative Model of Zinc Ion Homeostasis in Saccharomyces cerevisiae

Prompt Suathim

Grassroots Adoption of Cryptocurrency: Identifying Drivers of Uptake in Kenya and Nigeria

Arshiya Malik

SWNG 207

Meta-analysis of epigenetics and proteomics for the discovery and comprehension of mechanisms for the treatment of leukemia Thanh The Nguyen Siddhant Sharma

The Relationship between Nicotinic Antagonists and Anxiogenic Drugs on the Conditioned Fear Response

Payton Mackwood

Improving clinical decision-making for cancer patients: a genetically engineered Salmonella diagnostic tool designed to detect tumour immune activity

Parneet Sekhon Janella Schwab Brenda Ma Myles Osenton

Improving mTOR Inhibitors as a treatment method for Acute Myeloid Leukemia

Susan Zhang

WAVE 3 POSTER PRESENTATIONS

Theme: Health and Wellness

Anti-Neuroinflammatory Effects of Dietary Guar Gum on Experimental Autoimmune Encephalomyelitis

Elsie Wang

Managing Daily Responsibilities Among Collegiate Student-Athletes: Examining the Roles of Stress, Sleep, and Sense of Belonging **Quinn Storey**

Skin microbiome and metabolome and its effects on health

Simon Zhu Barry Siu Marcus Liang

nvestigating the Effects of a High Sucrose Diet and Time Restricted Feeding on Glucose Intolerance in C57BL/6 Mice

David Yang Jaqueline Julia Karimiha Amirhossein Moradi

The Effect of a Combination Therapy of Protease Inhibitors (Ritonavir and Atazanavir) on the Viral Load and Insulin Resistance of Patients Living with HIV

Shivani Mehta Sophia Shayan

Identification and Analysis of Epigenetically Regulated Prognostic Genes by Pterostilbene in Liver Cancer

Alice Zhang

Evaluating preliminary data visualization of an eye-tracking study

Samantha Ma

Differences in adolescent boys' and girls' perceptions and motivators behind their eating practices

Narges Bouzari Patricia Angeles Alicia Walch

NFAT5 Deficiency Attenuates IFN- β Signaling Stress Granule Formations and Downregulates Inflammatory Cytokine Expression

Alireza Nasseri Dehkharghani

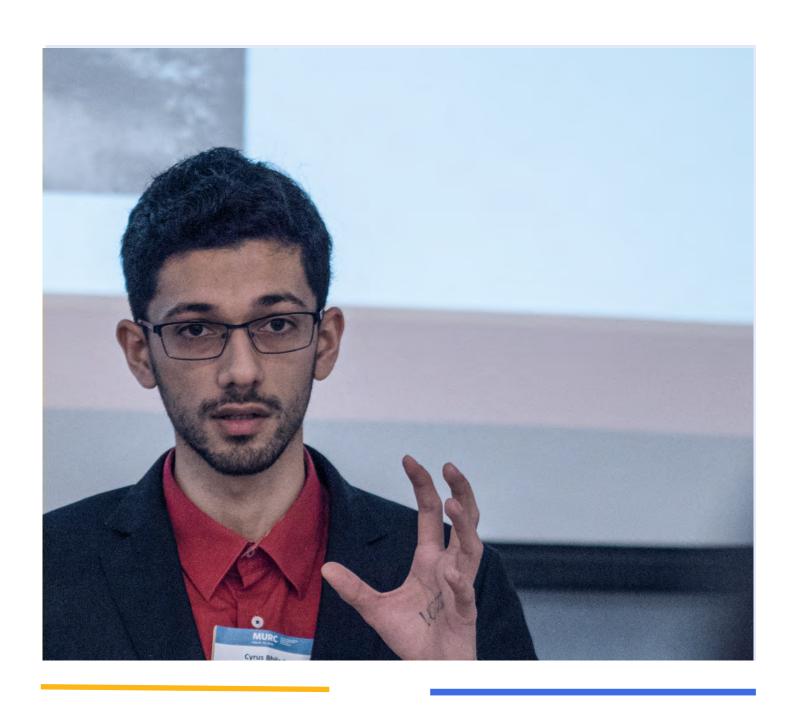
Relationship Between Childhood Maltreatment and Substance Use in Individuals with Borderline Personality Disorder: A Systematic Review Priya Johal

Theme: Health and Wellness

The Effects of Early Adolescent Cannabis Use on Female Tia Frazer Schizophrenia Onset Eric Liu Heterogeneous drug response in patient-derived ovarian cancer organoids Study of "Epigenetic Predictor" genes expressions Steven Chen interworkings and similarities in ADHD Katrina Yuen Oculomotor training and cognitive attention in sports-related Leo McHegg concussion Regulation Of MicroRNA Expression In Scleroderma And Raveen Badyal Idiopathic Pulmonary Fibrosis Examining the effect of Anti-phospholamban monoclonal Borna Naderi antibody (2D12) and Thapsigargin on Spontenouse Calcium Omental-Secreted Adipokines and Chemotherapy Resistance Eman Dhanoya in Ovarian Cancer Madison Estrella Nishi Parikh Determining the effects of extracted cinnamon polyphenols on Ipek Egilmez glucose uptake in insulin-resistant cells Noah Steward Edward Melnyk Katrina Jewell

Risk-taking Behaviour in Adolescent Cannabis Users

Preethi Gaunder



WAVE 4 ORAL & POSTER PRESENTATIONS

WAVE 4 ORAL PRESENTATIONS

SWNG 105

Modulation of the Epithelial to Mesenchymal Transition in Breast Cancer by Cannabinoids: A Theoretical Approach

Disha Gupta Doua Ismail Kristin MacDonald

Chronic stress inhibits learning via decreased neurogenesis in the dentate gyrus and primes the PFC for anxious behaviors through stress induced CSF1. Alonso Daboub Enda Cakmak Inaya Bhimani

Blood Flow Restriction Training and Cognition Function in the Older Population: Can Blood Flow Restriction Contribute to Prevent Dementia and Mitigate the Following Muscle Atrophy Consequences?

Hoai Huong Nguyen

The role of the nucleus parabrachial medialis (NPBM) in euthermic and hibernating 13-lined ground squirrels (Ictidomys tridecemlineatus)

Karla Guevara

Effects of Androgens on Behavioural Flexibility and Tyrosine Hydroxylase Expression

Cameron Kelsey

SWNG 107

Development of a UV-LED based air purification system

Steven Chin Trevor Daykin Ian Holzman

From Human Intelligence in Nursing to Informed Artificial Intelligence: Making Healthcare More Equitable Through Less Algorithmic Bias

David Shifflett Dawson Penner

CAR-T therapy and its applications in cancer treatment and palliative care

Alex Liang

How does a galaxy die? Determining the star formation history from a galaxy's spectrum.

Shannon MacFarland

Believe It or Nut: Friction and Convection Currents as the Driving Forces of the Brazil Nut Effect

Giuliana Kim Annudesh Liyanage

SWNG 109

Preventative Multimodal Analgesia for Patients Undergoing Lower Limb Reconstruction with External Fixators; A Prospective Study of Postoperative Pain.

Cameron Leong Mina Han Maple Lei

The Moderating Effect of Neuroticism and Conscientiousness on the Association Between Perceived and Actual Threat of COVID-19 Among Older Adults

Kevin Wang

Navigating Sexual Challenges: How Sexual Script Flexibility Promotes Sexual Well-being in First-time Pregnant Couples Gwen Farm

SWNG 207

Investigating protein interactions and their rate of decay.

Alandra Moosmann

Mendez

Neural pathways underlying Drosophila short term visual memory

Dennis Truong

On Trust and Immigration: Understanding Immigrants as

Experts in their Field

Aysan Dehghani

Institutionalizing Queerness: Refugee Claims in Canada's

Asylum Apparatus

Esme Stumborg

WAVE 4 POSTER PRESENTATIONS

Theme: Innovation and Technology

Objective and Automated Assessment of Motor Deficit using 3D Mesh Models in Human Parkinson Patients.

Kimia Ameri Xuzhe Xia Meera Dyal Ari Joung

Transgenic Development of Flavinogenic Yeast for Brewing

Sasha Plichta Patsakorn Naowaphongrat Memo Tejapaibul Alice Martins

Graphical Analysis of Simple Stupid Bugs in Java Source Code for Bug Generation and Detection

Shawn Zhang Mizuki Shindoh Yanyu Zhang

Finding the Fastest Highway Paths: Traffic Light Percolation

Kevin Liu Kelly Chen John Chen Jason Tang

Technology and transcription factors: Using CADD to target interactions

Anisha Neogi Payton Angus Neve Neve Hannah Kotsaftis

Mobile Gyro Control for Intuitive Manipulation of Virtual Anatomy Specimens

Terry Lin

Developing a method to measure free stress hormone levels in mouse serum

Anna Mazurenko

Theme: Individual. Community, and Society

Sustainability and management of school garden programs in North Vancouver

Genevieve Mindorff Clementine Nixon Masa Kono

Good guy or bad guy? Investigation of factors that contribute to prosocial development in infants

Sarah Wissmann

Developing an Online Resource for Safe Active Recreation for Families of Children with Autism Spectrum Disorder.

Rebecca Anderson Paige Dafoe

Theme: Sustainability and Conservation

Assessment of the Bioconcentration Factor of Butylated Hydroxytoluene in Daphnia magna

Mark Zhang Ana Ferreira Granja

Justin Chan

Exploring the effects of ocean warming and local stressors on marine mammals in western Canada through pathways-of-effects modeling

Vanessa Leibel Ana Timpano

Canadian Veterinarian Attitudes Towards Surplus Calf Management

Amalia Urloiu Jillian Hendricks

Statistical air pollution exposure models to address community environmental health concerns

Nika Martinussen

Theme: Health and Wellness

Predicting Discharge Status in a Post-Rehabilitation Stroke Population using a Cognitive Model, Stroke Characteristics and the FIM Natalia Bereznicki

The Role of Integrin Activation in Focal Adhesions in Embryonic Stem Cells

Christine Chen

Glial Fibrillary Acidic Protein as a Diagnostic Blood Biomarker for Traumatic Brain Injury

Carolina Ricardo

Effect of Triple Combination Immunotherapy on Treg cells' function in PDAC

Bill Wang

PARD3 and Centrosome Positioning

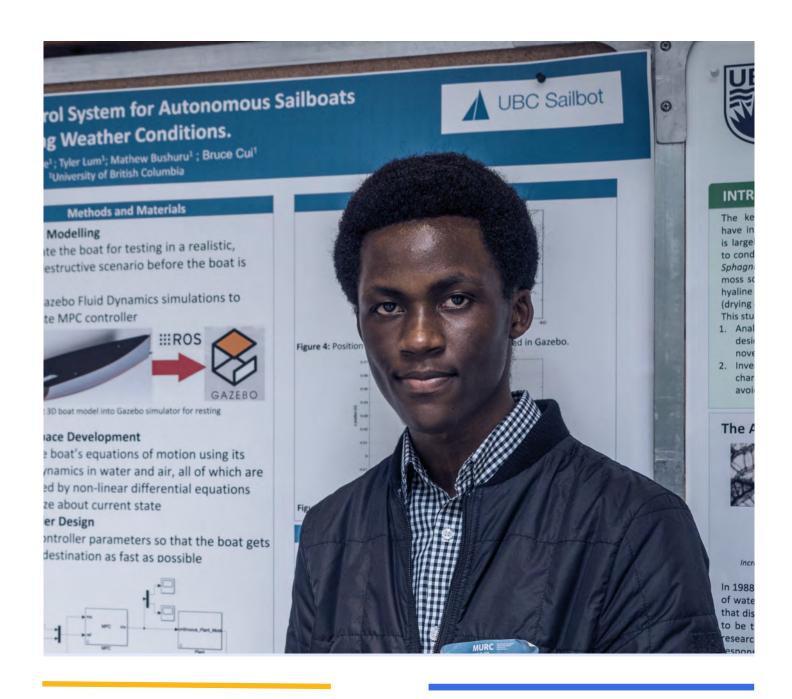
Quirina Thompson Miyuki Hui Glen Bayraktar

Improving rates of attrition in mHealth applications use among college students with comorbid depression and anxiety.

Leela Moza Shreya Chaturvedi

Physical Activity and Memory Functions: Are there Differences Between the Sexes?

Angela Lee



WAVE 5 ORAL & POSTER PRESENTATIONS

WAVE 5 ORAL PRESENTATIONS

SWNG 105

Functional outcomes for the aging population after complex head and neck reconstructive surgery

Jamie Kwon

Examining the efficacy of a virtual multi-disciplinary 10-week family based behavioural lifestyle intervention in children and adolescents

Alexandra Heidl

UV Photolysis Study of Para-Aminobenzoic Acid Using Parahydrogen Matrix Isolated Spectroscopy

Alexandra McKinnon

Designing Innovative Social Robots through end-User ParTicipation (DISRUPT)

Gabriella Guerra

"Masturbation is Unhealthy": Does Endorsement of Sexual Myths Differ Depending on Gender/Sex, Sexual Orientation, and Sexual Experience?

Anthony Yuen

SWNG 107

Know your limit, play within it: An examination of moral incongruence and rationalization among gamblers

Eliscia Sinclair

Influence of Veracity and Intention on Children's Trust Decisions

Shawn Yee

A New "Chosen One": Subverting Norms of Masculine Heroism Within Lesbian Harry Potter Fanfiction

Jessica Norn

Commuter Schedule Optimization: A Utility-Oriented Approach

James Yu

Connecting with Strangers: The Role of Social Signalling

Charul Maheshka

SWNG 109

Simulating Quantum Error Correction on Kitaev Surface Codes Julian Ding

SIDEKICK: A co-design approach to social robot development

Jaya Kailley

with families living with pediatric anxiety

engineering of traditional hand forged tools

Connor Gingera Teodora Cosovic

SWNG 207

Effects of Temperature And Hypercarbia On Egg Shell Fritzi Chandrakumar

Thickness In Podarcis muralis Natalie Ma

Project Tree Hole: Using Ecological Microcosms to Study

Noam Harris

Urbanization

Arboriculture and Wildlife: Supporting Wildlife in the Urban Alex Martin

Landscape

Amyloid fibril formation and gelling functionalities of lentil Vivian Zhang

protein

WAVE 5 POSTER PRESENTATIONS

Theme: Innovation and Technology

Social Robotics for Children: An Investigation of Manufacturers' Claims

Anna Riminchan

Developing guidance for ethically-sound Scholarship of Teaching and Learning (SoTL) research at UBC

Emily Wong Romina Amir Sardari

Effect of Electrolyte Composition on Thickness and Resistance of the Solid Electrolyte Interface Found on Graphite Anodes of Lithium-Ion Batteries

Tony Qiao

Effects of the DNA methylation changes in colorectal cancer

Paniz Ghavimi Fidan Sadig

Theme: Individual. Community, and Society

Assessing the Relationship Between Infants' Attachment Styles and their Sociomoral Judgements

Ava Momeni

Analyzing the consistency of intake information reported by shelter staff upon owner surrender of companion animals

Reiko Abe

Inequalities in workplace opportunities for training and career advancement for elder workers by gender and race: A cohort study

Joyce Jin

Violence and Social Service Access in Vancouver's Downtown Eastside: A Relational Reflexive Analysis

Mya Froese

Testing the fear of "falling" theory in the Chinese context: Examining education investment among Chinese parents

Amy Zeng

Theme: Sustainability and Conservation

Model of Climate Change Activism

Thiago Amin
Ruth Atagbuzia

The Impact of Managed Honeybees on Native Pollination

Tatum Narode
Teagan Maclachlan

Emily Husken Hin Chan

The Impacts of a Warming Ocean on the Migration of Cetaceans and Sharks

Tyson Mukai Steven Zhang Leticia Queiroz Raymond Raffaele

Habitat disturbance, bet-hedging, and the success of invasive species

Sam Dang

Breadfruit leaf and Male inflorescences extracts inhibit Cutibacterium acnes

Ruhi Mander Simona Mastrojanni

Madalena Cunha Rocha

Microbial degradation of microplastics in wastewater treatment plants

Jiayi Shi Mahak Arora Jayni Chang Nadiya Hasan

Theme: Health and Wellness

Determining the prevalence of food insecurity in the pediatric cystic fibrosis population in B.C. and the Yukon and its effects on healthcare outcomes

Jacob Gravelle

Prevalence, Characteristics and Health Care System Utilization following Non-Fatal Strangulation as Interpersonal Violence

Preet Kang Singh

Role of glycolysis in Venetoclax drug resistance in p53 mutated versus non-mutated Acute Myeloid Leukemia

Anjali Parthasarathy

Sensation Seeking and Adolescent Cannabis Use

Elena Greenall

Understanding Cortical Activation During Gait Adaptation in Advanced Parkinson's Disease

Linda Jiang Nathan Li

Use of YM155 Survivin Inhibitor Molecule to Decrease the Instance of Drug-Resistance Relapse in AML Patients

Svetlana Zivadinovic Bradley Xiang Erin Reeder Liam Arroyal Justine Hodson

WAVE 6 ORAL & POSTER PRESENTATIONS



WAVE 6 ORAL PRESENTATIONS

SWNG 105

Does Walking Improve Memory: Correlations between light physical activity and short-term episodic memory

Olive Huang

The Impact of Sex Hormones on regulatory T cells in autoimmune lupus

Navindi De Silva Gabi Reznik Grace Du Maya Tharp

Priming is Affected when Navon Dimensions are Modified: Examining Visual Search Performance

Kevin Zhang

Evaluation of CD8 as a biomarker for predicting outcome in immunotherapy treatment for early-stage ovarian cancer.

Monica Leca Paria Sokhanran

REVISED APPROACH TO MEASURING CHRONIC PAIN

Kaycee Realina

SWNG 107

Construction of SIGEX duo-directional reporter plasmid pSPPH21

Sourena Oveisi Helia Mansouri Dana Parsa Abrishamkar Parsa Tabassi

Bone Marrow Dosimetry for Radiopharmaceutical Therapy: Expanding the Capabilities of the MOBY Phantom

Mohammed Obaid

Cordless Connections, Troubling Times: Youth's Experience of (Digital) Familyhood During COVID-19 Richy Srirachanikorn

The impact of pathogenic tau propagation into neurons in the fruit fly brain

Donson Dong

SWNG 109

Memory Confidence Training after Concussion

Sanjana Bedi

Ow! What just bit me? Creating a reference library of DNA

Joshua Chen

Ow! What just bit me? Creating a reference library of DNA Joshua Cher barcodes to identify mosquito species in B.C.

Optimization of Western Blotting analysis of mineralocorticoid Davey Li receptor in rats

Episodic Breathing in 13-Lined Ground Squirrels Wendy Yang

SWNG 207

Industry

Brewing Up Taste: Investigating the Emergent Craft Beer Ethan Shapiro

Small Modular Reactors and the low-carbon economy

Decolonizing Water Brianna Ragsdale

Marcus Shew

"Chinese Beauty": A Close Reading on The Feminizing

Dalia Xu

Portrayal of Male Chinese Characters in Japanese Anime

Noah Jantz

WAVE 6 POSTER PRESENTATIONS

Theme: Innovation and Technology

Self-Assembly of Nano-sized DNA Arms

Eashan Halbe Miguel Tsai Rachael Nicholas Ethan Rajkumar

Modifying Arabidopsis Thaliana Mucilage Composition to Alter Drought Tolerance

Amy Wong

Electrochemical growth of Acidithiobacillus ferrooxidans as a sustainable food source for space travel.

Mariana Hofmann

Theme: Individual. Community, and Society

OFWs in Canada: Transnational labour at the intersection of colonial, imperial, and state-sanctioned violence after Philippine Independence

Jasmine Manango

Student and Faculty Perceptions of Student Workload in the E2P PharmD Program

Heather Brodoway

Moving beyond the monolithic Asian category: An examination of second-generation Filipino Canadians' educational experiences and career aspirations

Tamara Luistro

How students self-identify in crisis: a dialogue on biographical disruption during the COVID-19 pandemic

Ellysa Paskalitsa Smith

Investigating the role of group identification in links between hubristic pride and moral judgement

Radha Bazaz

Canadian mining corporations in Ghana and the link between corruption and human rights

Andre Aradei Jenny Kim

Theme: Sustainability and Conservation

Incorporating crimson clover and hairy vetch to improve cover crop performance and establishment in fall-winter

Franco Lopez Campomanes

Investigating natural predators of Amphorophora agathonica Hottes (North American large raspberry aphid) as a viable method of population control Jathin Arjun

Tracheid Wall Thickness: An Understudied Dimension of the Water Pathway in Conifers

Brendan Hansen

Theme: Health and Wellness

The effects of gene expression regulation on memory dysfunction in temporal lobe epilepsy

Sophia Van Cuylenborg

Lily Chen Sam Sidhu

Angelina Markovic Rainbow Charoensuk

The Role of Social Distancing, Theory of Mind, and Social Substitution Behaviours on Children's Socioemotional Wellbeing

Stefanie Ng

Understanding the SARS-CoV-2 Infection: Which Immunological Factors Can Explain Variations of Severity?

Arsh Jassal

Precarious work as a determinant of gender-based health inequalities: a systematic review

Tamara Rodney-Brathwaite

How does alcohol abuse increase the risk of Alzheimer's disease later in life?

Naomi Choong Avah Rustomjee Ngaa Ndachena Arzoo Dullat

Role of Selective Salpingography and Fallopian Tube Recanalization in Infertility Treatment

Amit Sharma

Development of an evidence-informed knowledge translation tool to facilitate resistance training prescription delivery for people with rheumatoid arthritis Davin Hu

Investigating the role of oxytocin on vCA1 neurons and social memory.

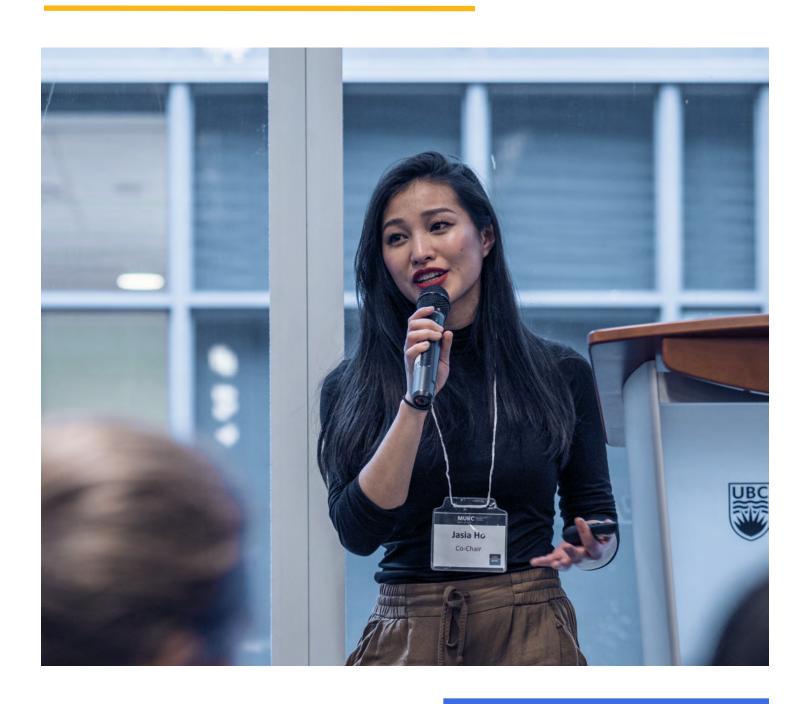
Sherouk Shehata Gurleen Gill Arda Sinecen Jessica Luo

Intimate Partner Violence Related Brain Injury in Canadian South Asian Women

Jaskarn Dhaliwal

Analyzing Machine Learning Models to Classify Triple-Negative and Non-Triple-Negative Breast Cancer Rithika Nair Emma Heath Youqing Luo

VIRTUAL WAVE 1 PRESENTATIONS



VIRTUAL WAVE 1 PRESENTATIONS

ROOM 1 (ZOOM LINK)

Identifying Pathways to Increased Informal Helping in Older US Adults

Katy Yang

Sleep and Perseveration about a stressor

Brian Oi

Investigating intracellular pH dynamics in gap junctionmediated soma-germline signaling and spermatogenesis in Drosophila Ariel Qi

How is Volunteering Associated with Reduced Mortality? Exploring Underlying Pathways in a Longitudinal Cohort Study of Older US Adults

Rachel Leong

The Effects of Health Literacy on Quality Of Life of People with Chronic Obstructive Pulmonary Disease

Kira Jones

ROOM 2 (ZOOM LINK)

Comparing Genomic Landscapes of Carcinomas and Sarcomas

Karambir Singh Dhaunsi

Tiffany Xie Sid Ahuja Noel Illing

Understanding the effectiveness of past, current and proposed Indigenous palliative care programs in Canada.

Amrit Bhela

Characterizing Islet Cells of the Human Pancreas

James Chae

What Makes Life Purposeful? Identifying the Antecedents of a Sense of Purpose in Life Using a Lagged Exposure-Wide Approach

Sofie Jensen

Review of the use of Methotrexate for the treatment of Rheumatoid Arthritis

Rayyan Zaman Chloe Hess Sara Hamidi

ROOM 3 (ZOOM LINK)

Interactive Effects of Salinity and Temperature on Evasterias troschelii

Jessica Li

Long-Term Food Education in BC

Elena Martin Zanuzzi Caroline Baldwin

People who have a spiritual view of nature show greater moral concern for nature, irrespective of their need to appear socially desirable.

Sakshi Sahakari

Predicting future Pseudotsuga menziesii range on Vancouver Island based on measurements of changing climate conditions and genetic sub-populations

Belen de Schutter Bill Zou Jasmine Hathway

Do Invasive Species Benefit More From Biofertilizers?

Munthha Shoaib

ROOM 4 (ZOOM LINK)

From Victims to Visionaries: Representations of Older Asian Adults in Canadian News Media during COVID-19

Lynda Li

Examining Attachment Styles in Hookup Culture

Aida Ardelean

Asian Identity and Psychiatric Health Care: First-person and systemic perspectives on barriers to just and dignified treatment

Anna Mylvaganam Emily Mittertreiner

Navigating Gold Mountain with Subtle Asian Networking: Exploring Asian diasporic workers' use of online ethnic networks Jennifer Szutu

Climate (In)justice and the Other: Dissecting the Politics of Representation of Climate Displaced People in the Bay of Bengal.

olly Benna Rwittika Banerjee Sagorika Haque

ROOM 5 (ZOOM LINK)

Application of Rolling Hough Transform to Canadian Galactic Plane Survey Observations of Neutral Hydrogen for W3, W4 and W5 Region

Elif Eren

Platinum (II) Salphen Complex for Cost & Energy Efficient OLED Displays

Bennett Tan

Hard Negative Learning for Rapid and Sensitive Steroid Annotation in Biospecimen Cindy Shi

Clinical feasibility of a contactless multiparameter continuous monitoring technology for neonates in a large public maternity hospital in Nairobi, Kenya Sahar Zandi Nia

Filmmaking and its role in scientific developments

Aakash Anantharaman

ROOM 6 (ZOOM LINK)

Importance of the participation of women in clinical research

Giselle Mirfallah

The impacts of a brief psycho-educational video intervention on body image, genital self-image, and sexual well-being

Simone Goldberg

Reduced Epigenetic Age in Older Adults Who Volunteer

Cherise Kwok

Dysfunctional Beliefs About Sleep Aggravate Insomnia Among Individuals with Inflammatory Arthritis

Emilie McGuire

Application of Random Forest in Predicting Breast Cancer Progression

Lotus Wei

ROOM 7 (ZOOM LINK)

Fluctuation temperatures as a predictor of eastern spruce Emily Black budworm outbreaks

Manager Sentiment and Returns in the Canadian Equity Catherine Li

Market

Metagenomic Detection of RNA Viruses in Severely Sick Annie Yu

Children Using Oxford Nanopore Based Sequencing Vianne Chang

Rana Ghadymimahani

Eden Viveiros

A mixed reality guidance tool for medical training Jay Jang

Vanessa Lo

Designing Health Care Educational Materials for South Asians

in Canada

Jasleen Brar

Reeva Bhandal

Increasing Lipid Yield in Microalgae for the Production of Ruth Yu

Biofuels

Jackie McDougall

Nikita Sharma Gabrielle Mew



VIRTUAL WAVE 2 PRESENTATIONS

VIRTUAL WAVE 2 PRESENTATIONS

ROOM 1 (ZOOM LINK)

Prenatal triptan use for migraine and risk of adverse child neurodevelopment: A systematic review

Maggie Yang Sunny Park

The study of the frozen heart and glucose distribution in Wood frogs.

Jessie Li Sierra Jensen Anushka Rao

Evaluating the application of a complexity framework to the development of educational patient cases at different levels of complexity.

Kanika Khosla

Early Detection of Preeclampsia using MicroRNAs and Transthyretin Levels in the Plasma

Paarsa Salman

Sex differences in the effects of chronic unpredictable stress on negative cognitive bias and neural activity in the amygdala and nucleus accumbens Cherise Kwok

ROOM 2 (ZOOM LINK)

Video-Based Respiratory Rate Estimation for Infants in Low Resource Settings

Stephanie Quon

Genome-wide association mapping of red raspberry fruit colour

Erjun Shen

Impact Analysis of a Rainwater Harvesting System for Northern BC Communities

Sharlene Santiago Anushika Jain Megan Dale

Al Darcy: Finding generalizable equations for hydrology via Al Feynman

Elena Wang Blanche Lan

The Effects of Substrate Texture and Salinity on Aedes aegypti Egg-Laying Site Preferences

Lauren Semkow Annie Zeng

ROOM 3 (ZOOM LINK)

EDUCATIONAL ATTAINMENT AS A PATHWAY TO POOR MENTAL HEALTH OF PARENTS IN FRAGILE FAMILIES: EXPLORING THE MEDIATING EFFECT OF FOOD INSECURITY

Kyara Liu

Decolonization and Indigenization of UBC's Faculty of Pharmaceutical Sciences: Literature Review and Environmental Scan

Brenda Zou Olivia Burton

The Chance of Complying Based on Perceived Wealth

Julio Camargo Silva Mark Parinas

Illusory Superiority in BC Undergraduates

Wendy Cheung Stephanie Chow Cecilia Liu Chloe Siu

Direct Player Observation to Quantify Head Impacts in Women's Soccer

Ava Katz

ROOM 4 (ZOOM LINK)

Watch your knees! Effects of Coaching and Video Feedback on Children's Quality of Motion

Mona Behrouzian Yu Chi Lin

Objective and automated assessment of social isolationinduced behaviour deficits using machine learning Peter Chen Isla Xiao Sijan Poudel Samin Alighanadi

Tracy Ngo Lynn Shibata Tina Nguyen

Characterizing the Secretion of Inflammatory Mediators by Microglia in Response to Multiple Stimuli

Anna Bernath

Short-term Organ Culture of Rat Seminiferous Tubules

Kassandra Zhou

Reciprocal and directional trends between relationship and sexual satisfaction in first-time mothers: A longitudinal analysis

Greta Jang

ROOM 5 (ZOOM LINK)

Heavy metal concentration from different ecosystems at UBC

farm

Corrine Zhu Stephanie Xie

Luke Ni

The Mysteries behind British Columbian Chinook Salmon

Antonio Dias

Identifying transcriptomic changes in glial cells in Alzheimer's

disease

Tiffany Huang Zachary Ferguson Delphine Zhou Carmen Choo

CHINs up for CHINook Salmon and Orcas

Justin Tung Joshua Fan Noah Abajian

Developing Hybrid Lithium-Ion battery Models: Exploring ML and traditional modelling

Roy He Harry Zhang Emerald Ngo Chloe Pi

ROOM 6 (ZOOM LINK)

Long Term Impact of Salicylic Acid on Youthful Skin

Ashley Jang Gunkaar Sekhon Judith Kan

Tissue clearing as a method to investigate brain injury

Sanraj Singh

Domesticated Cognition

Shab Molan

Effects of testosterone on behavioural flexibility in male rats

Esther Choi

Perioperative multimodal analgesia including intravenous lidocaine infusion for pain management following idiopathic scoliosis correction surgery in children: challenges of implementing a clinical double blind randomized controlled trial.

Aanisah Golam Halle Golding

ROOM 7 (ZOOM LINK)

Metagenomic Detection of RNA Viruses in Severely Sick Children Using Oxford Nanopore Based Sequencing Vianne Chang

Rana Ghadymimahani

Eden Viveiros Annie Yu

Designing Health Care Educational Materials for South Asians in Canada

Jasleen Brar Reeva Bhandal

Physical activity coaching for adults with spinal cord injuries during the transition from inpatient care to living in the community

Kenedy Olsen

Literature Review of Wearable Sensors for Balance and Mobility Impairments

Randy Gao

Requirements specification for a makerspace for rural communities in British Columbia

Pengpeng Chen Congrui Gu

Archaeology of Fragmentation: A Middle Shang Case

Ashish Giri

Emily Mayzes-Kotulla