



Research
Manitoba

Research Manitoba and our partners are pleased to announce the results
below for the **2022 GRANTS & AWARDS COMPETITION**

Master's Studentship Competition

Partnered with the CancerCare Manitoba Foundation, Children's Hospital Research Institute of Manitoba, George & Fay Yee Centre for Healthcare Innovation, Health Sciences Centre Foundation, Manitoba Lung Association, and University of Manitoba WM Ross Scholarship

SOCIAL SCIENCE AND HUMANITIES

All Studentships are valued at \$12,000

Name: Emily Unger

Institution & Department: University of Winnipeg, Faculty of Graduate Studies, Masters of Environment and Social Change

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Building Adaptive Capacity Through Community Energy Planning in Eagle Lake First Nation*

Name: Patrick Carty

Institution & Department: University of Winnipeg, Faculty of Science, Department of Environmental Studies and Sciences (DESS)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *The Role of Traditional Knowledge in Building Adaptive Capacity in Northern Forest-Based Communities*

Name: Winter Dawn Lipscombe
Institution & Department: University of Winnipeg, Faculty of Business and Economics, Department of Economics
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Northern Infrastructure And Food Prices: To What Extent Does Road Connectivity Reduce Food Prices In Northern Indigenous Communities?*

Name: Alyssa Romaniuk
Institution & Department: University of Manitoba, Faculty of Arts, Department of Psychology
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Predicting Family Quality of Life in Parents of Children with Attention-Deficit/Hyperactivity*

Name: Alexis Koffman
Institution & Department: University of Manitoba, Faculty of Arts, Department of Psychology
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Neural Oscillatory Coupling Reflecting Morphological Awareness in Children with Dyslexia*

Name: Kaeley Simpson
Institution & Department: University of Manitoba, Faculty of Arts, Department of Psychology
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Promoting Mental Health in Families During COVID-19: An Analysis of How Online Social Support Forum Usage Impacts Maternal Depression and Parenting*

Name: Rachel Roy
Institution & Department: University of Manitoba, Faculty of Arts, Department of Psychology
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Facilitators and barriers to mental health service utilization for parents of children with autism spectrum disorders*

Name: Craig Hillier
Institution & Department: University of Manitoba, Faculty of Kinesiology and Recreation Management
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *The effects of a savouring intervention among adolescent athletes*

NATURAL SCIENCES AND ENGINEERING

All Studentships are valued at \$12,000

Name: Anouska Agarwal

Institution & Department: University of Winnipeg, Faculty of Science, Bioscience, Technology and Public Policy Program

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Role of Micro-RNAs in the Pathogenesis of the White Nose Syndrome in Myotis lucifugus*

Name: Amelia Kacperkiewicz

Institution & Department: University of Manitoba, Faculty of Science, Department of Chemistry

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Synthesis and Characterization of Sustainable Cr(III) and Mn(II) Metal Complexes for Harvesting Solar Energy*

Name: Nathalie Turenne

Institution & Department: University of Winnipeg, Faculty of Graduate Studies

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Spectroscopy of modern low-temperature Mg-carbonate precipitates near Atlin, British Columbia, Canada: Relevance to Jezero crater, Mars*

Name: Matthew Van Schepdael

Institution & Department: University of Manitoba, Faculty of Science, Department of Microbiology

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Structural and biochemical characterization of type VI secretion system membrane protein effector loading by Eag chaperones*

Name: Rosemary Minns

Institution & Department: University of Winnipeg, Faculty of Science, Department of Biology

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Effects of elevating carbon dioxide levels on alarm cue response*

Name: Youssef Ekladuce

Institution & Department: University of Manitoba, Faculty of Arts, Department of Psychology

Program: 2022 Master's Studentship

Funding Amount: \$12,000

Funded By: 100% by Research Manitoba

Project Title: *Eye-Hand Coordination: Visuomotor System's Sensitivity to Directionality Bias of Moving Objects*

SOCIAL/POPULATION HEALTH

All Studentships are valued at \$12,000 unless otherwise specified below

Name: Elizabeth Agnew Kazina

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, College of Nursing

Program: 2022 Master's Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by CancerCare Manitoba

Project Title: *Effectiveness of cancer patient navigation on diagnostic resolution and treatment initiation in Manitoba cancer patients*

Name: Emma Sandstrom

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Community Health Sciences (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *An Exploration of How Violence is Conceptualized in HIV Research and Programming for Adolescent Girls and Young Women Who Sell Sex in Ukraine*

Name: Andrea Toews

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, College of Nursing

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Healthcare Providers' Experiences of In-Hospital Resuscitation*

Name: Hera Joanna Mariz Casidsid

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Community Health Sciences (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$17,850 for 1 year

Funded By: Cost shared with Research Manitoba and Children's Hospital Research Institute of Manitoba (CHRIM)

Project Title: *The association between the Healthy Baby program and postpartum depression among women in Manitoba: A retrospective cohort study*

Name: Emily Brownell

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Community Health Sciences (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$17,850 for 1 year

Funded By: Cost shared with Research Manitoba and Children's Hospital Research Institute of Manitoba (CHRIM)

Project Title: *First Nations women's experiences with perinatal care in Northern Manitoba*

HEALTH – BASIC BIOMEDICAL

All Studentships are valued at \$12,000 unless otherwise specified below

Name: Zachary McAllister

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Human Anatomy and Cell Science (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *An investigation into the different neurophysiological and behavioral effects of the tDCS when applied to the left vs. right dorsolateral prefrontal cortex*

Name: Maria Astrid Bravo Jimenez

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Physiology and Pathophysiology (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by Children's Hospital Research Institute of Manitoba (CHRIM)

Project Title: *Investigating the role of lysosomal activity and unfolded protein response in regulating oligodendrocytes in multiple sclerosis*

Name: Morgan Taverner

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Medical Microbiology (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Investigating the mechanistic effects of oral ASA treatment on HIV susceptibility*

Name: Amr Abostait

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, College of Pharmacy

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Targeted lipid nanoparticles for transplacental delivery of microRNA to correct fetal lung anomalies*

Name: Meher Kantroo
Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, College of Pharmacy
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Investigating the role of astrocyte NMDA receptors in gliotransmission*

Name: Maryana Kutuzova
Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Physiology and Pathophysiology (Medicine)
Program: 2022 Master's Studentship
Funding Amount: \$17,850 for 1 year
Funded By: 100% by Children's Hospital Research Institute of Manitoba (CHRIM)
Project Title: *Examining maternal and genetic influences on the development of diabetic kidney disease*

Name: Judah Zammit
Institution & Department: University of Manitoba, Faculty of Science, Department of Computer Science
Program: 2022 Master's Studentship
Funding Amount: \$17,850 for 1 year
Funded By: 100% by CancerCare Manitoba
Project Title: *Deep Learning-based Tensor Completion Models for Anti-Cancer Drug Combination Discovery*

Name: Rubi Campos Gudiño
Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Biochemistry and Medical Genetics (Medicine)
Program: 2022 Master's Studentship
Funding Amount: \$17,850 for 1 year
Funded By: Cost shared with Research Manitoba and CancerCare Manitoba
Project Title: *Evaluating the Effects Reduced EMI1 Expression has on Chromosome Stability and Cellular Transformation in Colorectal Cancer*

Name: Christian Humphreys
Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Pharmacology and Therapeutics (Medicine)
Program: 2022 Master's Studentship
Funding Amount: \$12,000
Funded By: 100% by Research Manitoba
Project Title: *Mechanism of Panx2 channel activation in response to calcium store depletion*

Name: Reid Opperman
Institution & Department: Brandon University, Faculty of Science, Department of Biology
Program: 2022 Master's Studentship
Funding Amount: \$12,000 for 1 year
Funded By: 100% by Research Manitoba
Project Title: *Investigating the Effects of miRNA on Cancer Stem Cell Reprogramming in Senescent Breast Cancer*

Name: Ally Farrell

Institution & Department: University of Manitoba, Faculty of Graduate Studies

Program: 2022 Master's Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by CancerCare Manitoba

Project Title: *Exploiting the Underlying Defects of High-Grade Serous Ovarian Cancer to Develop Novel Therapeutic Strategies*

Name: Morgan Hiebert

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Medical Microbiology (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Lung Association, Manitoba

Project Title: *Characterizing novel mutations that confer drug resistance in Mycobacterium tuberculosis infections (TB)*

Name: Chelsea Lukawy

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Immunology (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Lung Association, Manitoba

Project Title: *The Impact of PlexinD1 Deficiency on IL-10 Expression in Lung Interstitial Macrophages*

Name: Chioma Nwachukwu

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Physiology and Pathophysiology (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$12,000 for 1 year

Funded By: 100% by Research Manitoba

Project Title: *Characterization Of Sympathetic Preganglionic Neuron Activity During Fictive Locomotion in the In-Vitro Neonatal Mouse Spinal Cord*

Name: Viboushann Arunasalam

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Human Anatomy and Cell Science (Medicine)

Program: 2022 Master's Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by CancerCare Manitoba

Project Title: *Contribution of IRE1 to Cytokine/Chemokine Production Post-Chemotherapy in Triple-Negative Breast Cancer Cells*

PhD in Health Research Studentship Competition

Partnered with the CancerCare Manitoba Foundation, Children's Hospital Research Institute of Manitoba, and George & Fay Yee Centre for Healthcare Innovation

SOCIAL/POPULATION HEALTH

Name: Muditha Bodawatte Gedara

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Community Health Sciences (Medicine)

Program: 2022 PhD in Health Research Studentship

Funding Amount: \$35,000 for 1 year

Funded By: 100% by George and Fay Yee Centre for Healthcare Innovation

Project Title: *Machine-Learning Methods to Investigate Heterogeneity in Longitudinal Patient-Reported Outcome Measures*

Name: Nicole Brunton

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Pediatrics and Child Health (Medicine)

Program: 2022 PhD in Health Research Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by Children's Hospital Research Institute of Manitoba (CHRIM)

Project Title: *Is exposure to diabetes in utero causally associated with hypertension in offspring? A triangulation approach*

HEALTH - BASIC BIOMEDICAL

Name: Gideon Ong

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Human Anatomy and Cell Science (Medicine)

Program: 2022 PhD in Health Research Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by CancerCare Manitoba

Project Title: *Exploring the Role of Crosstalk between IRE1 and PERK in Triple Negative Breast Cancer*

Name: Logan Froese

Institution & Department: University of Manitoba, Faculty of Engineering

Program: 2022 PhD in Health Research Studentship

Funding Amount: \$17,850 for 1 year

Funded By: 100% by Health Sciences Centre Foundation

Project Title: *Impact of Sedation and Vasopressors on in vivo Cerebrovascular Reactivity in Adult Moderate/-Severe Traumatic Brain Injury*

Health Research Postdoctoral Fellowship Competition

Partnered with the CancerCare Manitoba Foundation, Children's Hospital Research Institute of Manitoba, and George & Fay Yee Centre for Healthcare Innovation

SOCIAL/POPULATION HEALTH

Name: Leah Crockett

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Pediatrics and Child Health (Medicine)

Program: 2022 Health Research Postdoctoral Fellowship

Funding Amount: \$44,100 for 1 year

Funded By: 100% by Children's Hospital Research Institute of Manitoba (CHRIM)

Project Title: *Implementing strategies to improve pediatric readiness in Manitoba Emergency Departments: a randomized-control trial (RCT)*

Name: Tasmia Hai

Institution & Department: University of Manitoba, Faculty of Arts, Department of Psychology

Program: 2022 Health Research Postdoctoral Fellowship

Funding Amount: \$44,100 for 1 year

Funded By: 100% by Children's Hospital Research Institute of Manitoba (CHRIM)

Project Title: *Predictors of Self-Regulation skills and Externalizing Behaviours in Children participating in the BEAM Program*

New Investigator Operating Grant Competition

SOCIAL SCIENCES & HUMANITIES

Name: Ellen Watson

Institution & Department: Brandon University, Faculty of Education, Department of Teacher Education

Program: 2022 New Investigator Operating Grant

Funding Amount: \$30,107.92, over 2 years

Project Title: *Exploring Factors and Experiences that Teachers Attribute to the Development of Epistemic Beliefs about Science Knowledge*

Name: Cameron Hauseman

Institution & Department: University of Manitoba, Faculty of Education, Department of Educational Administration, Foundations and Psychology

Program: 2022 New Investigator Operating Grant

Funding Amount: \$36,119.61, over 2 years

Project Title: *Elementary School Principals' Work and Workload*

Name: Joe Curnow

Institution & Department: University of Manitoba, Faculty of Education, Department of Educational Administration, Foundations and Psychology

Program: 2022 New Investigator Operating Grant

Funding Amount: \$39,780, over 2 years

Project Title: *Learning from, with, and towards Abolitionist Imaginaries: Funding Collaborative Data Analysis to Support Community Activist Learning*

Name: Jillian Seniuk Cicek

Institution & Department: University of Manitoba, Price Faculty of Engineering, Department of Design Engineering

Co-Applicant Name: Kari Zacharias

Institution & Department: University of Manitoba, Price Faculty of Engineering, Centre for Engineering Professional Practice and Engineering Education

Program: 2022 New Investigator Operating Grant

Funding Amount: \$40,000, over 2 years

Project Title: *Critical Participatory Technological Development with Indigenous Communities: A Comparative Study in Engineering Education in Canada and Brazil*

NATURAL SCIENCES & ENGINEERING

Name: Lorenzo Livi

Institution & Department: University of Manitoba, Faculty of Science, Department of Computer Science

Program: 2022 New Investigator Operating Grant

Funding Amount: \$50,000, over 2 years

Project Title: *Hypergraphs Neural Networks for Enhanced Drug Design and Optimization*

Name: Nandika Bandara

Institution & Department: University of Manitoba, Faculty of Agricultural and Food Sciences, Department of Food and Human Nutritional Sciences

Program: 2022 New Investigator Operating Grant

Funding Amount: \$50,000, over 2 years

Project Title: *Novel and Sustainable Technologies for Protein Ingredient Development and Functionalization from Canadian Crops*

Name: Yannick Molgat-Seon

Institution & Department: University of Winnipeg, Faculty of Kinesiology and Applied Health

Program: 2022 New Investigator Operating Grant

Funding Amount: \$50,000, over 2 years

Project Title: *Determining the effect of sex-differences in respiratory system morphology on respiratory*

Name: Miguel Uyaguari

Institution & Department: University of Manitoba, Faculty of Science, Department of Microbiology

Program: 2022 New Investigator Operating Grant

Funding Amount: \$25,000, over 2 years

Project Title: *Analyses of the phageome and resistome of a First Nation community wastewater treatment facility for development of an aquatic health monitoring tool*

HEALTH - BASIC BIOMEDICAL

Name: Peter Thompson

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Physiology and Pathophysiology (Medicine)

Program: 2022 New Investigator Operating Grant

Funding Amount: \$130,000, over 2 years

Project Title: *Investigating immunotherapy and beta cell targeted approaches for treating Type 1 Diabetes*

Name: Galen Wright

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Pharmacology and Therapeutics (Medicine)

Program: 2022 New Investigator Operating Grant

Funding Amount: \$130,000, over 2 years

Project Title: *Identification of causal genetic variants and genes in neuromuscular disorders*

Name: Deanna Santer

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, Department of Immunology (Medicine)

Program: 2022 New Investigator Operating Grant

Funding Amount: \$129,134, over 2 years

Project Title: *Investigating the regulation of human adaptive immune responses by type III interferons*

SOCIAL/POPULATION HEALTH

Name: Sherif Eltonsy

Institution & Department: University of Manitoba, Rady Faculty of Health Sciences, College of Pharmacy

Program: 2022 New Investigator Operating Grant

Funding Amount: \$130,000, over 2 years

Project Title: *Comparative Safety and Uptake Determinants of COVID-19 Vaccines during Pregnancy*

Thank you to Our Partners!



WM Ross Scholarship



Regenerative Medicine Program

If you would like more information about the Research Manitoba **2022 GRANTS & AWARDS COMPETITION RESULTS**, please contact:

Kerry Harris

Manager, Programs and Partnerships
Research Manitoba

E: Kerry.Harris@researchmb.ca

T: 204. 942.7070

W: researchmanitoba.ca