

2020 GRANTS & AWARDS COMPETITION Announcement

Research Manitoba and our partners are pleased to announce the recipients for the 2020 Grants & Awards Competition:

Master's Studentship Competition

Partnered with the CancerCare Manitoba Foundation, Children's Hospital Research Institute of Manitoba, Health Sciences Centre Foundation, Manitoba Lung Association, and University of Manitoba WM Ross Scholarship

Social Sciences and Humanities

All Studentships are valued at \$12,000

Mercedes Casar, Department of Psychology, Faculty of Arts, University of Manitoba, '*Impact of Smartphones on Infant Language Development*'

Lily Kaufmann, Faculty of Law, University of Manitoba, '*Building Canadian Futures through Friendship: Youth Integration in Manitoba*'

Cody Rogers, Faculty of Kinesiology and Recreation Management, University of Manitoba, '*How Can Sport Help People Living with Chronic Illness?*'

Francesca Silla, Department of Psychology, Faculty of Arts, University of Manitoba, '*How do visual processes influence reading development? A latent growth analysis*'

Natural Sciences and Engineering

All Studentships are valued at \$12,000

Riley Feser, Department of Biology, Faculty of Science, Brandon University, '*Cell Secretome Analysis to Identify Novel Breast Cancer Biomarker*'

Zofia Kozub, Department of Psychology, Faculty of Arts, University of Manitoba, '*The Relationship between Emotion-induced Blindness and Alexithymia*'

Jarrad Perron, Department of Physics and Astronomy, Faculty of Science, University of Manitoba & Department of Physics, Faculty of Science, The University of Winnipeg, *'Development of MR/PET Dual-Modality Imaging Methods of the Central Nervous System'*

Cora Romanow, Masters of Bioscience, Technology and Public Policy Program, Faculty of Graduate Studies, The University of Winnipeg, *'Female Mating Tactics of Mule Deer and White-tailed Deer'*

Aneet Saran, Department of Psychology, Faculty of Arts, University of Manitoba, *'Eye-Hand Coordination: Differential Effects of Salient Obstacles in Visually-Guided Grasping'*

Amanda Slagerman, Faculty of Kinesiology and Recreation Management, University of Manitoba, *'Changes in the onset of muscle activation with changes in load knowledge during lifting'*

Sachi Villanueva, Master of Science (Environmental and Life Sciences), Faculty of Science, Brandon University, *'Knock-down of developmental genes as a form of insect pest control'*

Zhong Ling Yap, Department of Microbiology, Faculty of Science, University of Manitoba, *'Towards zero plastic waste: Identifying bioplastic degradation genes and enzymes'*

Health

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

Tressa Alexiuk, Department of Food and Human Nutritional Sciences, Faculty of Agricultural and Food Sciences, University of Manitoba, *'Food and Nutrition Security in Manitoba Youth'*

Daniel Araujo, Faculty of Kinesiology and Recreation Management, University of Manitoba, *'Examining cardiovascular risk factors and myokine profiles in different physical fitness phenotypes in older women'*

Stephanie Borlase, Department of Biochemistry and Medical Genetics (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Exploring new targeted therapies for SHH medulloblastoma'*

Funded in partnership by the University of Manitoba WM Ross Scholarship (\$11,850) and CancerCare Manitoba Foundation (\$6,000)

Azadeh Dalvand, Department of Human Anatomy and Cell Science (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Role of Axon Guidance Molecules in the early cerebellar circuit formation'*

Funded in partnership with Research Manitoba (\$6,000) and the Health Sciences Centre Foundation (\$6,000)

Rebeca De Oliveira Camargo, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Effects of Myofibroblast-Specific SKI Knockdown in the Infarcted Heart'*

Matheus Fabião de Lima, Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Disruption of chromosome territories in multiple myeloma'*
Funded by the [CancerCare Manitoba Foundation](#) (\$17,850)

Sarah Flett, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Optimizing the exercise response in persons with a spinal cord injury using transcutaneous electrical spinal stimulation'*

Marina Fujishima, Department of Immunology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'The role of neutrophils in epithelial barrier disruption in the presence of non-optimal bacteria'*

Jennifer Hammond, Department of Community Health Sciences (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Toward Collaborative Care Practices: Developing Art-Based Self Advocacy Strategies for Women and Gender Diverse Individuals with Experiences of Medical Microtrauma and Chronic Illness'*

Kayla Joyce, Department of Psychology, Faculty of Arts, University of Manitoba, *'The Influence of Co-Occurring Maternal Depression and Substance Use Disorder on Offspring Health and Developmental Outcomes: An Intervention-Based Program'*

Funded in partnership with [Research Manitoba](#) (\$6,000) and the [Children's Hospital Research Institute of Manitoba](#) (\$11,850)

Vignesh Krishnamoorthy, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Generation of an efficient platform for studying gene function in mouse ES cell models by utilizing the Cas9 system'*

Funded in partnership with [Research Manitoba](#) (\$6,000) and the [CancerCare Manitoba Foundation](#) (\$11,850)

Shifa Mohideen, Department of Medical Microbiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Investigating the Role of Lymphocyte Activation Gene-3 (LAG-3) in HIV Susceptibility'*

Noshin Noorjahan, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Effect of a High Fat Diet on Maternal Brain Cell Proliferative Potential and Prolactin Receptor Distribution and Activation Before, During and After Pregnancy in the CD-1 Mouse'*

Chinonye Onuzulu, Department of Biochemistry and Medical Genetics (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Analysis of Prenatal Cigarette Smoke-induced DNA Methylation Changes at Candidate Genes in Mice'*

Funded in partnership with Research Manitoba (\$6,000) and the Children's Hospital Research Institute of Manitoba (\$11,850)

Arun Paul, Department of Pharmacology and Therapeutics (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Quality of Asthma Treatment in Children and Adolescents (QUAST-CA)'*

Funded in partnership by the Children's Hospital Research Institute of Manitoba (\$11,850) and the Manitoba Lung Association (\$6,000)

Enitan Salako, Department of Immunology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Impact of Alkyl-dihydroxyacetone phosphate synthase (ADS) on host Immune response to Leishmania major'*

Funded in partnership with Research Manitoba (\$6,000) and the Health Sciences Centre Foundation (\$6,000)

Lidia Trzuskot, Department of Human Anatomy and Cell Science (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Contribution of immune cells to successful spinal cord regeneration in a zebrafish model'*

Sonu Varghese, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'EXercise to prevent Anthracycline-based Cardio-Toxicity (EXACT 2.0) in individuals with breast cancer'*

Funded by the CancerCare Manitoba Foundation (\$17,850)

PhD in Health Research Competition

Partnered with the CancerCare Manitoba Foundation, and Children's Hospital Research Institute of Manitoba

Mateusz Tomczyk, Department of Pharmacology and Therapeutics (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'The Role of SIRT3 in the Regulation of Cardiac Lipids in DOX-Induced Cardiac Dysfunction'*

Funded by the Children's Hospital Research Institute of Manitoba (\$17,850)

Jigneshkumar Vaghasiya, Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'The Role of Oxidized Phospholipids in the Pathobiology of Asthma'*

Funded by the Children's Hospital Research Institute of Manitoba (\$17,850)

Health Research Postdoctoral Fellowship Competition

Partnered with the CancerCare Manitoba Foundation, and Children's Hospital Research Institute of Manitoba

Dr. Taiana Martins, Faculty of Kinesiology and Recreation Management, University of Manitoba, *'Extracellular vesicles in breast milk and the developmental origins of asthma'*
Funded by the Children's Hospital Research Institute of Manitoba (\$44,100)

Dr. Sarah Reyes Paredes, Department of Pediatrics and Child Health (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Human milk components and the nasal microbiota as causal factors in the prevention of wheezing and ear infections during the first year'*
Funded by the Children's Hospital Research Institute of Manitoba (\$44,100)

New Investigator Competition

Dr. Jeremy Chopek

Department of Physiology and Pathophysiology (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Integration between locomotor and sympathetic spinal neural circuitry'*
\$129,900

Dr. Meghan Jones, Department of Biochemistry and Medical Genetics (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Epigenetic mechanisms of biological embedding of prenatal cigarette smoke'*
\$130,000

Dr. Xihui Liang, Department of Mechanical Engineering, Faculty of Engineering, University of Manitoba, *'Development of Embedded Sensors for Bearing Condition Monitoring'*
\$50,000

Dr. Susan Logue, Department of Human Anatomy and Cell Science (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'Understanding how the Unfolded Protein Response shapes the therapy-induced secretome in Triple Negative Breast Cancer cells'*
\$130,000

Dr. Gerd Prehna, Department of Microbiology, Faculty of Science, University of Manitoba, *'Deciphering the molecular mechanism of protein assembly in the type six secretion system warhead'*
\$50,000

Dr. Jennifer Protudjer, Department of Pediatrics and Child Health (Medicine), Rady Faculty of Health Sciences, University of Manitoba, *'A mixed methods investigation into the bidirectional association of atopic dermatitis and maternal-infant bonding'*
\$129,454

Dr. Benjamin Schellenberg, Faculty of Kinesiology and Recreation Management, University of Manitoba, 'Fuelled by Passion: Applying the Quadripartite Approach to Passion with Sports Fans'

\$38,157

Thank you to Our Partners!

