

2017 CoMRAD Summary

In 2017, the Office of the Vice-Dean Research invested a total of **\$873,945.61** in the College of Medicine Research Awards (CoMRAD) program, providing seed funding for **33 novel, pilot research projects** spearheaded by College of Medicine faculty. **\$110,000 of the total dollar amount awarded was made possible through our College of Medicine donor funds.**

Since the completion of their projects, faculty have reported a number of additional successes in research as a direct result of receiving 2017 CoMRAD funding:

- **\$1,033,010** external funding received
- **4** scholarly papers published
- **18** conference proceedings
- **21** abstracts
- **14** invited lectures & seminars

Of the 33 funded CoMRAD projects, 14 have not yet concluded their research, so the preceding data excludes the external funding, papers published, etc. of those projects. Results will be updated after the period of the project extensions, so please stay tuned for more exciting research outputs by our 2017 CoMRAD recipients!

Successful 2017 CoMRAD Projects:

Principal Investigator	Project Title
Dr. Camelia Adams	<i>The impact of adult attachment on depression severity and trauma recollection over time</i>
Dr. Deborah Anderson	<i>Role of CREB3L1 in Lung Squamous Cell Carcinoma</i>
Dr. Catherine Arnold	<i>Determining factors impacting fall injury risk using lab based and computer simulated falling on the outstretched hands (FOOSH) in older women</i>
Dr. Julia Boughner	<i>A newly discovered role for physical contacts among head muscles and bones during healthy musculoskeletal development and growth</i>
Dr. Brent Burbridge	<i>Evaluation of a telerobotic ultrasound system to perform remote obstetrical examinations</i>
Dr. Oleg Dmitriev	<i>Mechanism of Dysregulation of the Human Copper Transporter ATP7B in Wilson Disease</i>
Dr. Rachel Engler-Stringer	<i>Good Food for Learning: An Examination of the Current State of School Food in the Saskatoon Region</i>
Dr. Andrew Freywald	<i>Targeting resistance to anti-EphA2 treatment in triple-negative breast cancer</i>
Dr. Donna Goodridge	<i>To go or not to go? Decision making processes of older adults seeking non-urgent treatment in the Emergency Department</i>
Dr. Gary Groot	<i>Understanding patients' perspectives of the process and impacts of immediate and delayed breast reconstruction surgery</i>
Dr. John Howland	<i>Perineuronal nets in medial prefrontal cortex: roles in the pathophysiology associated with schizophrenia</i>
Dr. George Katselis	<i>Predicting Childhood Asthma in Saskatchewan Using Urine Proteomics</i>
Dr. Michael Kelly	<i>Synchrotron-based imaging of the biochemical, elemental and histologic changes in ischemic stroke using a Middle Cerebral Artery Occlusion mouse model</i>
Dr. Soo Kim	<i>Prevalence and Musculoskeletal Risk Factors of Shoulder Dysfunction in Breast Cancer Survivors</i>
Dr. Shelley Kirychuk	<i>Effect of low dose carbon dioxide and ammonia on barn dust induced lung inflammation</i>
Dr. Katherine Knox	<i>Perspectives on walking amongst persons with multiple sclerosis</i>
Dr. Gary Linassi	<i>Understanding self-management in persons living with spinal cord injury: a descriptive, exploratory study</i>
Dr. Stephane Madill	<i>An investigation of the links between osteoporosis and urinary incontinence in older women, a proteomics study</i>
Dr. Gregory Malin	<i>How self-determination affects medical student empathy</i>
Dr. Ivar Mendez	<i>Evaluation of a Smartphone Application for Suicide Prevention among Indigenous Youth and Young Adults</i>
Dr. Michael Moser	<i>Preclinical study of the protective effect of doxycycline on the warm ischemic injury of Donation after Circulatory Death (DCD) transplant kidneys</i>
Dr. Joseph Ndisang	<i>A novel strategy to protect the glomerular filtration barrier in diabetic nephropathy</i>
Dr. Mateen Raazi	<i>Randomized Controlled Trial of the Internet-delivered Preoperative Preparation Program (I-PPP)</i>
Dr. Greg Sawicki	<i>Inhibitors of matrix metalloproteinases, kinases and nitric oxide synthase synergistically protect heart from I/R injury</i>
Dr. Michael Schwandt	<i>Impacts of wildfire smoke on health service utilization during a major forest fire event in Saskatchewan</i>
Dr. Roona Sinha	<i>Achieving Better Cell Counts Trial (ABC's Trial)</i>
Dr. Catherine Trask	<i>The combined effects of whole body vibration and fatiguing tasks on human performance: Addressing risk factors for vehicle collisions</i>
Dr. Jim Xiang	<i>Identification of optimal radiofrequency-generated temperature induces a balanced apoptosis and necrosis formation leading to efficient pancreas cancer ablation and CTL responses post radiofrequency ablation</i>