

Collaborative Research Seed Grant Results (2017-2021)

Competition	Principal Investigator(s)	Co-Investigator(s)	Proposal Title	Departments
2017	Chris Brandl	Rob Hegele; Patrick O'Donoghue	tRNA variation in diseases of proteostasis	Biochemistry; Robarts
2017	Amin Rizkalla	Henry Lapointe; Yara Hosein	Optimization of 3D-Printed Porous Titanium Constructs for Craniofacial Reconstruction	Oral Biology; Dentistry; Biomedical Engineering
2017	Trevor Shepherd	John McCormick; John Ronald	Combination targeted immunotherapy for the treatment of metastatic ovarian cancer	Anatomy and Cell Biology; Microbiology and Immunology; Medical Biophysics
2017	Piotr Wilk	Saverio Stranges; Kelly Anderson; Stephanie Frisbee; Sisira Sarma; Amardeep Thind; Dan Lizotte; Rob Petrella; Stewart Harris; Kambiz Norozo; Pallav Garg; Arlene MacDougall; Javeed Sukhera	Multidisciplinary Initiative for Population Health Research in Chronic Diseases	Epidemiology and Biostatistics; Family Medicine; Paediatrics; Cardiology
2018	Grace Parraga (NPI); Cory Yamashita (Co-PI); Lisa Cameron (Co-PI)	N/A	Complex Airways-Disease Translational Team: Etiology of inflammation towards precision medicine approaches in asthma	Medical Biophysics; Robarts; Medicine, Pathology and Laboratory Medicine
2018	Silvia Penuela	John Ronald; Matthew Hebb	In Vivo Evaluation of Pannexin 1 Inhibition on Glioblastoma Growth in the Chick Model Using Bioluminescence Imaging	Anatomy and Cell Biology; Medical Biophysics; Robarts; Clinical Neurological Sciences
2019 Spring	Tom Appleton	Aaron Fenster	Three-Dimensional Ultrasound Measurements of Synovial Tissues for Diagnosis and Management of Osteoarthritis	Medicine; Medical Biophysics; Robarts
2019 Spring	Michael Boffa	Marlys Koschinsky; Maria Drangova; Stephen Pasternak; Luciano Sposato	Role of lipoprotein(a) in embolic stroke of undetermined source (ESUS)	Biochemistry; Physiology and Pharmacology; Robarts; Medical Biophysics; Clinical Neurological Sciences
2019 Spring	Jorge Burneo	Luciano Sposato; Saverio Stranges; Sarah Morrow; Piotr Wilk	Exploring long-term environmental exposures as epilepsy risk factors: A large, population-based retrospective cohort study	Clinical Neurological Sciences; Epidemiology and Biostatistics

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2019 Spring	Brian Corneil	Penny MacDonald	The role of dopamine in the contextual control of the fast visuomotor network in health and in Parkinson's Disease	Physiology and Pharmacology; Robarts; Clinical Neurological Sciences
2019 Spring	Jane Rylett	Cheryle Séguin; Stephen Pasternak	Differentiation of human induced pluripotent stem (hiPS) cells to cholinergic basal forebrain neurons for studies on cholinergic neuron function and Alzheimer disease pathology	Physiology and Pharmacology; Robarts; Clinical Neurological Sciences
2019 Spring	Matthew Teeter	Jeremy Burton; Brent Lanting; David O'Gorman; Edward Vasarhelyi	Potential roles for microorganisms in hip and knee joint implant failures	Surgery; Robarts; Biochemistry
2019 Fall	Samuel Asfaha	Lauren Flynn	Building a Bioscaffold for Mini-Guts	Gastroenterology; Anatomy and Cell Biology
2019 Fall	Barbra de Vrijer (NPI); Facundo Garcia-Bournissen (Co-PI)	Janine Hutson; Genevieve Eastabrook	Developing a Collaborative Translational Laboratory to Study Maternal Fetal Pharmacology of Cannabinoids using a Placental Perfusion Model	Obstetrics and Gynaecology; Paediatrics
2019 Fall	Armen Parsyan	Paula Foster	Establishing Model of Breast Cancer Brain Metastases Using Patient-Derived Organoid Xenotransplantation and Multimodality Brain Imaging	Surgery; Medical Biophysics; Robarts
2019 Fall	Cheryle Séguin	Bailey Chris; Brad Urquhart	Development of Clinical Biomarkers for DISH (Diffuse Idiopathic Skeletal Hyperostosis)	Physiology and Pharmacology; Surgery
2019 Fall	Eva Turley	Lina Dagnino	Tumor Prevention Mechanisms of the Skin Polysaccharide Hyaluronan	Oncology; Biochemistry; Physiology and Pharmacology
2020	Arhtur Brown	Grace Parraga; Gregory Dekaban; Maria Drangova; Stephen Barr	Proof-of-principle study for an immunomodulatory therapy to treat SARS-CoV-2 infection	Anatomy and Cell Biology; Robarts; Medical Biophysics; Microbiology and Immunology
2020	Andreanna Bütter (NPI); Soume Bhattacharya (Co-PI)	Barbra de Vrijer; Tim Regnault	Molecular profiling of congenital diaphragmatic hernia: in utero and postnatal transcriptomic and metabolomic patterns to aid in prognosis and treatment	Surgery; Paediatrics; Obstetrics and Gynaecology; Physiology and Pharmacology
2020	Matthew Hebb	Jonathan Thiessen	Low intensity electric fields to enhance drug delivery for CNS disease	Clinical Neurological Sciences; Medical Biophysics
2020	Jeffrey Campbell	Aaron Grant; Debbie Penava; Peter Wang	A multidisciplinary initiative for transgender health care in Southwestern Ontario	Surgery; Obstetrics and Gynaecology

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2020	Parisa Shooshtari (NPI); Nathalie Berube (Co-PI)	N/A	Uncovering the cell-specific epigenetic causes of gene dysregulation in schizophrenia	Pathology and Laboratory Medicine; Paediatrics; Anatomy and Cell Biology
2020	Qi Zhang	Ana Suller Marti; Ali Khan	Sudden Unexpected Death in Epilepsy: An Interdisciplinary Study	Pathology and Laboratory Medicine; Clinical Neurological Sciences; Medical Biophysics; Robarts
2021	Kristin Clemens (NPI); Louise Moist (Co-PI)	Michael Chiu; Tayyab Khan; Sonja Richert; Alp Sener; Saverio Stranges	Obesity Management for Kidney TRANSPLANT-1: OK TRANSPLANT-1	Medicine; Family Medicine; Surgery; Epidemiology and Biostatistics
2021	Lauren Flynn	Matthew Hebb; Cheryle Séguin	Development of Brain-derived Bioscaffolds for Neural Progenitor Cells	Anatomy and Cell Biology; Clinical Neurological Sciences; Physiology and Pharmacology
2021	Noha Goma	Christina Castellani; Jacqueline Ogilvie; Claire Mitchell; Kathy Speechley	From Home to Epigenome: Unravelling the Biopsychosocial Links Between Oral Disease and Developmental Vulnerability in Children from Socially Disadvantaged Families in London, Ontario	Dentistry; Pathology and Laboratory Medicine; Paediatrics
2021	Steven Laviolette	Elizabeth Osuch; Rob Hegele; Jibran Khokhar; Walter Rushlow; Jean Theberge	Effects of Adolescent Nicotine Exposure on Increased Risk for Mood and Anxiety Disorders: Translational Exploration of Mesocorticolimbic Dysregulation in GABA and Glutamate Transmission and Genomic Biomarkers	Anatomy and Cell Biology; Psychiatry; Medicine; Robarts; Medical Biophysics
2021	Geoffrey Ng	Corey Baron; Ryan Degan; David Wang	Examining Muscle Characteristics and Function Associated with Femoroacetabular Impingement Syndrome	Medical Biophysics; Robarts; Surgery; Medical Imaging
2021	Samuel Siu	Genevieve Eastabrook; Sarah Blisset; Barbra de Vrijer; Rob Hegele	Cardiovascular Health after Pregnancy in Women with Heart Disease	Medicine; Robarts; Obstetrics and Gynaecology;
2021	Shawn Whitehead (NPI) Manuel Montero-Odasso (Co-PI)	Stephen Pasternak	Validation of Circulating Microglia Extracellular Vesicles in Human Patients with Mild Cognitive Impairment	Anatomy and Cell Biology; Clinical Neurological Sciences; Robarts