

### Past New Investigator Research Grant Recipients

A global leader in child health care, research, and training, SickKids is serious about nurturing talent and enhancing the capacity for discoveries that improve life for patients and their families. Since 2001, we've invested researchers at health institutions across Canada with our New Investigator Research Grants. This unique program, a partnership between SickKids and the Canadian Institutes of Health Research, offers a springboard to Canada's top health research talent. When early-career researchers need it most, these peer-reviewed awards provide funding, access to mentors, and networking opportunities. Our national grants have launched the careers of health-care game changers whose discoveries are transforming children's lives with novel therapies, new standards of care, and internationally recognized research programs:

#### **2024**

**Dr. Mark McVey**

Inflammatory Effectors of Sphingolipids mediate Transfusion-related Acute Lung Injury

Approved funding: \$300,000 over 3 years

**Dr. Gina Martin**

Examining adolescent health impacts of exposure to climate change-related extreme events

Approved funding: \$300,000 over 3 years

**Dr. Olena Zhulyn**

Specialized ribosomes as a new target for wound healing and organ regeneration

Approved funding: \$299,437 over 3 years

**Dr. Philippe Dixon**

From lab to clinic: A biofidelic model for dynamic evaluation of foot pathology using wearable sensors in low-resource contexts

Approved Funding: \$225,946 over 3 years

**Dr. Amanda Sim**

Thriving Together: Co-design and randomized feasibility trial of a culturally responsive family-based mental health intervention for refugee children and families

Approved Funding: \$295,816 over 3 years

**Dr. Jenna Dowhaniuk**

Empowering Children's Voices: International Validation of CELIAC-Q Kids, a Patient-Reported Outcome Measure for Pediatric Celiac Disease

Approved Funding: \$300,000 over 3 years

## **2023**

### **Dr. Elizabeth Condliffe**

Evaluating an Innovative Approach to Understanding the Development of Walking and Care for Children with Mobility Impairments

Approved funding: \$299,439 over 3 years

### **Dr. Orhan Selcuk Güven**

Advancing the Understanding and Diagnosis of Childhood Speech-Language Disorders Using Artificial Intelligence and Machine Learning

Approved funding: \$300,000 over 3 years

### **Dr. Raquel Cuella Martin**

Genome editing technologies applied to LSFC: Exploring therapeutic avenues and improving diagnostics in Canada

Approved funding: \$298,955 over 3 years

### **Dr. Priyanka Pundir**

The Role of Mrgprs in Atopic Dermatitis Skin Inflammation

Approved funding: \$295,000 over 3 years

### **Dr. Christine Voss**

Physical activity and the clinical management of chronic diseases in children

Approved funding: \$300,000 over 3 years

### **Dr. Samantha Wilson**

Detangling maternal and placental origins of early and late onset preeclampsia

Approved funding: \$300,000 over 3 years

## **2022**

### **Dr. Laura Avila**

Accuracy and Usability of a Smart Device to Measure Adherence to Compression Garment Wear

Approved funding: \$297,330.74 over 3 years

### **Dr. Poorva Desphande**

Prediction of Intraventricular Hemorrhage using Echocardiography and Near Infrared Spectroscopy (PIE-NIRS)

Approved funding: \$297,594.12 over 3 years

### **Dr. Aislin Mushquash**

Evaluating an innovative e-mental health tool to support youth seeking mental health services in Northwestern Ontario

Approved funding: \$299,938.00 over 3 years

**Dr. Alison Shea**

Maternal cannabis use and breastfeeding (M-CUB)

Approved funding: \$292,733.18 over 3 years

**Dr. Shazeen Suleman**

Co-designing a longitudinal, prospective cohort with newcomer children and their families to follow growth outcomes

Approved funding: \$300,000.00 over 3 years

**Dr. Samuel Workenhe**

Rewiring cancer cell death to boost pediatric brain tumor immunotherapy

Approved funding: \$295,319.80 over 3 years

**2021**

**Dr. Mandy Archibald**

A Living Lab for Mental Health in Youth Onset Type 2 Diabetes

Approved funding: \$287,276 over 3 years

**Dr. Laura Duncan**

Establishing a population health approach to improving the mental health of children and youth: Co-development and evaluation of the usability of a prototype Child and Youth Mental Health

Information System

Approved funding: \$290,525 over 3 years

**Dr. Hagar Labouta**

Safe and Effective Targeted Therapy for Breast Tumor during Early Pregnancy

Approved funding: \$300,000 over 3 years

**Dr. Nika Shakiba**

Towards robust beta cell therapy manufacturing for treating type 1 diabetes

Approved funding: \$300,000 over 3 years

**Dr. Thai Hoa Tran**

Investigating the underlying mechanisms of resistance in Philadelphia chromosome-like acute lymphoblastic leukemia

Approved funding: \$300,000 over 3 years

**Dr. Yang Zhou**

Gene Restoration and Functional Rescue in Mutant Mouse Models of ASD

Approved funding: \$295,165 over 3 years

**2020**

**Dr. Amanda Froehlich Chow**

Nature's Way-Our Way: Engaging in Traditional Indigenous Ways of Being as a Wholistic Path for Promoting Wellness and Protecting Against the Onset of Chronic Disease Among Early Years Children

Approved funding: \$287,232 over 3 years

**Dr. Wei-Hsiang Huang**

Determine how somatic gene deletion causes disordered childhood brain development  
Approved funding: \$279,560 over 3 years

**Dr. Thomas Kitzler**

A comprehensive approach to study genetic causes of chronic kidney disease  
Approved funding: \$300,000 over 3 years

**Dr. Christina Lamb**

Exploring the lived experience of death and dying for mature minors in Canada  
Approved funding: \$142,630 over 3 years

**Dr. Alexander Lohman**

Repetitive, mild traumatic brain injuries during adolescence alter microglia-dependent synaptic pruning  
Approved funding: \$289,500 over 3 years

**Dr. Karen Patte**

Mental health effects of COVID-19 on Canadian adolescents over time: a mixed methods study  
Approved funding: \$294,127 over 3 years

**Dr. Tamara Vanderwal**

Naturalistic brain imaging of childhood-onset Obsessive-Compulsive Disorder  
Approved funding: \$300,000 over 3 years

**2019**

**Dr. Mariane Bertagnolli**

New Therapies Targeting Angiogenesis in Hypertensive Pregnancies and Fetal Programming of Diseases  
Approved funding: \$298,020 over 3 years

**Dr. Annie Ciernia**

The Role of Neuronal Chromatin Remodelers in Brain Development  
Approved funding: \$300,000 over 3 years

**Dr. Lauren Kelly**

Cannabis for Chronic Daily Headache in Adolescents  
Approved funding: \$293,335 over 3 years

**Dr. Natasha Saunders**

Firearm Injuries Among Children and Youth  
Approved funding: \$299,230 over 3 years

**Dr. Jai Shah**

Understanding Pathways to Mental Health Care During and After the Psychotic Prodrome  
Approved funding: \$268,919 over 3 years

**Dr. Amy Wong**

Understanding Airway Cystic Fibrosis Disease Using Induced Pluripotent Stem Cells  
Approved funding: \$299,788 over 3 years

## **2018**

**Dr. Marie-Claire Arrieta, University of Calgary**

Early-life gut fungal dysbiosis in asthma development

Approved funding: \$300,000 over 3 years

**Dr. Danya Fast, University of British Columbia**

Substance Use and Addiction Services Engagement among Vulnerable Youth: An Ethno-Epidemiological Study

Approved funding: \$300,000 over 3 years

**Dr. Brianna Turner, University of Victoria**

Using digital technologies to understand and reduce intentional self-harm in youth

Approved funding: \$294,230 over 3 years

**Dr. Maithe Arruda-Carvalho, University of Toronto**

Early Development of the Social Brain: Implications for Autism

Approved funding: \$300,000 over 3 years

**Dr. Shawn Beug, Children's Hospital of Eastern Ontario Research Institute**

Combination immunotherapy for pediatric brain cancer

Approved funding: \$300,000 over 3 years

**Dr. Sarah Buchan, University of Toronto**

Burden, cost, and development of asthma related to severe RSV infections

Approved funding: \$285,122 over 3 years

## **2017**

**Dr. Sarka Lisonkova, University of British Columbia**

Risk of fetal death and optimal timing of delivery among overweight and obese women

Approved funding: \$112,650 over 3 years

**Dr. Amish Jain, Sinai Health System**

Early identification of preterm neonates with evolving chronic pulmonary hypertension: utility of functional echocardiographic markers

Approved funding: \$276,845 over 3 years

**Dr. Ashley Harris, University of Calgary**

Neurobiology of prepubertal migraine and transcranial direct current stimulation as a therapy

Approved funding: \$284,460 over 3 years

**Dr. Chinthaka Heyn, Sunnybrook Research Institute**

Brain Energy Metabolism and Heat Production in Adolescents with Bipolar Disorder

Approved funding: \$277,096 over 3 years

**Dr. Jeremy Hirota, McMaster University**

The merging of precision medicine and microfluidics for advances in cystic fibrosis management

Approved funding: \$280,193 over 3 years

**Dr. Serge McGraw, Centre de recherche CHU Sainte-Justine**

Impact of early embryonic alcohol exposure on DNA methylation programming in the etiology of fetal alcohol spectrum disorders

Approved funding: \$284,460 over 3 years

**Dr. Augusto Zani, The Hospital for Sick Children**

Stem Cell Derived Therapy for Pulmonary Hypoplasia: A Novel Therapeutic Strategy for Congenital Diaphragmatic Hernia

Approved funding: \$284,025 over 3 years

**2016**

**Dr. Clémence Belleannée, University of Laval**

Impact of the Sperm Epigenomic Status on the Progeny Born by Assisted Reproductive Technologies

Approved Funding: \$299,022 over 3 years

**Dr. Boris Bernhardt, Montreal Neurological Institute and**

**Dr. Dewi Schrader, British Columbia Children's Hospital**

Connectome-informed Simulations of Pediatric Epilepsy Surgery

Approved Funding: \$294,250 over 3 years

**Dr. Jean-Francois Lepage, Universite de Sherbrooke**

Impact of Prenatal Flame Retardant Exposure on Brain Development: A multimodal neuroimaging study in a cohort of school aged children

Approved Funding: \$294,100 over 3 years

**Dr. Georg Schmaolzer, University of Alberta**

Sustained Inflation During Chest Compression

Approved Funding: \$281,132 over 3 years

**Dr. Patricia Fontela, McGill University Health Centre Research Institute**

Evolution of Infection Markers in Children with Severe Bacterial Infections

Approved Funding: \$299,961 over 3 years

**Dr. Kora DeBeck, Simon Fraser University**

Addiction Treatment Among Vulnerable Youth

Approved Funding: \$300,000 over 3 years

**2015**

**Dr. Sylvie Girard, Sainte-Justine Hospital**

Diagnostic and Treatment of Inflammation During Pregnancy

Approved Funding: \$300,000 over 3 years

**Dr. Anne Gallagher, CHU Sainte-Justine**

Resting-state Presurgical Mapping in Children with Epilepsy Research Centre

Approved Funding: \$290,716 over 3 years

**Dr. Robin Hayeems, The Hospital for Sick Children**

Costs and Clinical Consequences of Pediatric Whole Genome Sequencing

Approved Funding: \$296,050 over 3 years

**Dr. Julie Autmizguine, CHU Sainte-Justine Research Centre**

Piperacillin – Tazobactam Extended Infusion in Infants and Young Children

Approved Funding: \$257,325 over 3 years

**Dr. Peter Kannu and Dr. Irina Voronov, The Hospital for Sick Children**

cMET and Fracture Healing

Approved Funding: \$167,000 over 3 years

**Dr. Myriam Srouf, McGill University Health Centre-Research Institute**

Genetic characterization of focal malformations of cortical development

Approved Funding: \$298,855 over 3 years

**2014**

**Dr. Jacob Jaremko, University of Alberta**

3D Ultrasound in Hip Dysplasia

Approved funding: \$257,245 over 3 years

**Dr. Alexander Beristain, University of British Columbia**

Effect of Obesity-Associated Inflammation on the Maternal-Fetal Interface in Early Pregnancy

Approved funding: \$299,385 over 3 years

**Dr. Sarah Fraser, University of Montreal**

Ilagiut: Collaborative Mental Health Care from Communities, to Professionals, to Policy Change for Inuit of Canada

Approved funding: \$283,288 over 3 years

**Dr. Gerry Giesbrecht, University of Calgary**

Effects of Prenatal Distress and Nutrition on Neurodevelopment and Neuroendocrine Function in Preschoolers

Approved funding: \$299,454 over 3 years

**Dr. Valerie Abadie, CHU Sainte-Justine Research Centre**

Role of B Cells in Celiac Disease

Approved funding: \$292,116 over 3 years

**Dr. Heather Melichar, Hôpital Maisonneuve-Rosemont**

Thymic Imprinting of T effector Function Throughout Ontogeny

Approved funding: \$300,000 over 3 years

**2013**

**Dr. Eric Parent, University of Alberta**

Multicentre Schroth Exercise Trial for Scoliosis (Multicentre SETS study)

Approved funding: \$300,000 over 3 years

**Dr. Simone N. Vigod, Women's College Hospital**

Transcranial Direct Current Stimulation (tDCS) for Depression in Pregnancy

Approved funding: \$113,274 over 2 years

**Dr. Jonathan D. Schertzer, McMaster University**

Childhood Nutritional and Bacterial Stresses Dictate Obesity-Driven Disease

Approved funding: \$300,000 over 3 years

**Dr. Mike Seed, The Hospital for Sick Children**

Early Detection and Neurodevelopment Impact of Late Onset IUGR

Approved funding: \$298,390 over 3 years

**Dr. Nelly Huynh, University of Montreal**

Incidence of Altered Craniofacial Morphology and Malocclusion in Children and Youth with Obstructive Sleep Apnea

Approved funding: \$280,712 over 3 years

**Dr. Signe Bray, University of Calgary**

Learning and reinforcement in adolescents with Autism Spectrum Disorder

Approved funding: \$ 296,080 over 3 years

**2012**

**Dr. Elod Szabo, the Hospital for Sick Children**

Understanding Voltage-Grated Sodium Channel Related Cardiomyopathy

Approved funding: \$299,981 over 3 years

**Dr. Chiachen Cheng, St. Joseph's Care Group Thunder Bay**

What are the Mental Health Service Needs of Youth in Northern Ontario

Approved funding: \$298,614 over 3 years

**Dr. Pia Wintermark, McGill University Health Research Institute**

Early Identification of Asphyxiated Newborns at Risk of Developing Significant Brain Injury despite Hypothermia Treatment

Approved funding: \$300,000 over 3 years

**Dr. Maryam Oskoui, McGill University Health Research Institute**

Prevalence and Healthcare Utilization Pattern of Children with Cerebral Palsy

Approved funding: \$205,140 over 3 years

**Dr. Brenda Gladstone, the Hospital for Sick Children**

(Co) Producing Help-Seeking Narratives with Children of Parents with Mental Illnesses

Approved funding: \$178,219 over 2 years

**Dr. Tanja Gonska, the Hospital for Sick Children**

Interrogation of SLC6A14 as a Modifier for Drug Treatment in CF disease

Approved funding: \$299,172 over 3 years

**2011**

**Dr. Ian Coleman, University of Alberta**

Pathways from Early Childhood Behaviour and Development to Adolescent Depression

Approved funding: \$282,491 over 3 years



**Dr. Elizabeth Jones, McGill University**

The Glycocalyx During Vascular Development

Approved funding: \$296,679 over 3 years

**Dr. Theo Moraes, The Hospital for Sick Children**

Enhancing CD8 T Cell Responses to RSV (Respiratory Syncytial Virus)

Approved funding: \$300,000 over 3 years

**Dr. Maryse Bouchard, CHU Sainte-Justine Research Centre**

Reversibility of Neurobehavioural Deficits Associated with Manganese Exposure From Drinking Water

Approved funding: \$296,708 over 3 years

**2010**

**Dr. Christopher Maxwell, University of British Columbia**

Targeting Aurora Kinase A in Paediatric Sarcomas

Approved funding: \$307,064 over 3 years

**Dr. Thuy Mai Luu, University of Montreal**

A Multi-Model Approach to a Family-Centred Educational Program of Developmental Care for Preterm Infants: Development and Implementation

Approved funding: \$311,124 over 3 years

**Dr. Barbara Muskat, The Hospital for Sick Children**

Autism Comes to the Hospital: Experiences of Hospital Care

Approved funding: \$190,000 over 3 years

**2009**

**Dr. Elysa Widjaja, The Hospital for Sick Children**

Diffusion Tensor Imaging Assessment of White Matter Injury in Children with Non-Lesional Intractable

Approved funding: \$289,043 over 3 years

**Dr. Jason Lerch, The Hospital for Sick Children**

Spatial Navigation and the Brain During Normal Development

Approved funding: \$432,619 over 3 years

**Dr. Kym Boycott, Children's Hospital of Eastern Ontario**

Identification of a Gene for Joubert Syndrome

Approved funding: \$300,966 over 3 years

**Dr. Cencil Hahn, The Hospital for Sick Children**

Nonconvulsive Seizures Among Critically Ill children

Approved funding: \$431,694 over 3 years

**2008**

**Dr. Tanya Peckmann, St. Mary's University**

3-D Facial Reconstruction: Positive Identification of Missing Children of Canadian Aboriginal Ancestry and Fostering Self-Worth within Aboriginal Youth

Approved funding: \$75,750 over 2 years

**Dr. Lisa Cameron, University of Alberta**

Effect of Omega-3 Fatty Acids on Th2 Immunity

Approved funding: \$120,000 over 2 years

**Dr. Pascal Lavoie, British Columbia's Children Hospital**

Innate Immune Defences in Neonates Born Early in Gestation

Approved funding: \$129,840 over 2 years

**Dr. Emmanuelle Cordat, University of Alberta**

Characterizing a new AE1 mutant causing HS and dRTA

Approved funding: \$126,730 over 2 years

**Dr. Nina Jones, University of Guelph**

Signalling Mechanisms of Childhood Kidney Disease

Approved funding: \$128,800 over 2 years

**Dr. Daniel Hardy, University of Western Ontario**

The Molecular Mechanisms of Programming in the Liver

Approved funding: \$130,000 over 2 years

**Dr. Cornelius Boerkoel, University of British Columbia**

SMARCAL1 Modulated Pathways

Approved funding: \$130,000 over 2 years

**Dr. Isabelle Gagnon, The Montreal Children's Hospital**

Returning to Activities after a Mild Traumatic Brain Injury in Children and Adolescents

Approved funding: \$129,200 over 2 years

**Dr. Michelle Demos, British Columbia's Children's Hospital**

The Study of Familial Infantile Seizures in First Nation Children of British Columbia

Approved funding: \$169,985 over 2 years

**Dr. Sandeep Raha, McMaster University**

Maternal Obesity causes Fetal and Neonatal Mitochondrial Dysfunction: Implications for Childhood Obesity

Approved funding: \$129,995 over 2 years

**Dr. Jocelyn Gravel, Sainte Justine Hospital**

The Canadian Triage and Acuity Scale for Children; A Prospective Multi-Center Evaluation

Approved funding: \$128,500 over 2 years

**Dr. Liisa Holsti, University of British Columbia**

Breastfeeding Analgesia in Preterm Infants

Approved funding: \$103,888 over 2 years

**Dr. Tobias Kollmann, University of British Columbia**

Development of a Neonatal Pertussis Vaccine: One Shot for Life

Approved funding: \$129,000 over 2 years

**Dr. Hartmut Grasemann, The Hospital for Sick Children**

Young Infants with Acute Recurrent Wheezing-To Puff or Not to Puff? A Randomized Controlled Trial

Approved funding: \$130,000 for 2 years

**Dr. Hai-Ling Margaret Cheng, The Hospital for Sick Children**

Quantitative MRI of angiogenesis and cellularization in tissue regeneration

Approved funding: \$129,223 for 2 years

**Dr. William Gaetz, The Hospital for Sick Children**

Presurgical assessment of motor function in children

Approved funding: \$128,444 for 2 years

**Dr. Stephane Lefrancois, Hopital Maisonneuve-Rosemont**

Palmitoylation of the Lysosomal Sorting Receptors

Approved funding: \$129,894 over 2 years

**Dr. Justine Turner, University of Alberta**

Short Bowel Syndrome Neonatal Piglet Models

Approved funding: \$125,380 over 2 years

**Dr. Zoha Kibar, Sainte Justine Hospital**

Genetic Basis of Neural Tube Defects

Approved funding: \$130,000 over 2 years

**Dr. Emmanuel Bujold, Laval University**

Periodontal Disease and its Relation with Microbial Invasion of Amniotic Cavity (MIAC) and Spontaneous Preterm Birth or PPROM Prior to 34 Weeks' Gestation

Approved funding: \$127,254 over 2 years

**Dr. Artur Kania, Clinical Research Institute of Montreal**

Using Spinal Cord as a Model to Study Neuronal Migration Disorder

Approved funding: \$130,000 over 2 years

**Dr. Teesta Soman, The Hospital for Sick Children**

Globus Pallidus Deep Brain Stimulation in Children with Dystoni

Approved funding: \$118,617 over 2 years

**Dr. Dat Tran, The Hospital for Sick Children**

Severe Influenza in Children: Genetic Determinants and Related Epidemiology

Approved funding: \$129,926 over 2 years

**Dr. Kathy Boutis, The Hospital for Sick Children**

Randomized Controlled Trial of Cast Versus Splint in Children with Acceptably Angulated Wrist Fractures

Approved funding: \$129,775 over two years

**Dr. Debra Cameron, University of Toronto**

Cognitive Orientation to Occupational Performance (CO-OP): A New Approach for Children with Cerebral Palsy

Approved funding: \$78,964 over two years

**Dr. Vincent Joseph, Centre Hospitalaire-Universitaire du Quebec (CHUQ)**

Placental Steroids & Respiratory Control Development

Approved funding: \$129,464 over two years

**Dr. John Strauss, University of Toronto**

Imaging and Genetic Strategies in Paediatric Major Depressive Disorder

Approved funding: \$130,000 over two years

**Dr. Karen Gordon, The Hospital for Sick Children**

Auditory Development Promoted by Bilateral Cochlear Implantation

Approved funding: \$130,000 over two years

**Dr. Chetankumar Tailor, The Hospital for Sick Children**

Role of FLVCR1 in Diamond Blackfan Anemia

Approved funding: \$82,322 over two years GIFTS ways \$82,322

**Dr. Shyamala Dakshinanmurti, University of Manitoba**

Functional Regulation of Thromboxane Receptor in Hypoxic Myocytes

Approved funding: \$129,875 over two years

**Dr. Steven Miller, University of British Columbia**

The Progression of Brain Injury in Term Newborns with Encephalopathy

Approved funding: \$130,000 over two years

**Dr. Steven Aurora, McMaster University**

The Hypotonic Versus Isotonic Parenteral (HIP) Fluid Study, a Randomized Controlled Trial

Approved funding: \$130,000 over two years

**Dr. Sam Daniel, Montreal Children's Hospital**

Prevention of cisplatin ototoxicity in cancer patients

Approved funding: \$129,880 over two years

**Dr. Alex Mihailidis, University of Toronto**

The Efficacy of an Intelligent Prompting System to Develop Self-Care Activities in Children with Autism

Approved funding: \$129,470 over two years

**Dr. Mark Friedberg, The Hospital for Sick Children**

Effects of Right Ventricular Intra-ventricular Mechanical Dyssynchrony on Right and Left Ventricular Dysfunction in Tetralogy of Fallot

Approved funding: \$108,766 over two years

**Dr. Liisa Holsti, University of British Columbia**

Breastfeeding Analgesia in Preterm Infants

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**Dr. Tobias Kollmann, University of British Columbia**

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**Dr. Hai-Ling Margaret Cheng, The Hospital for Sick Children**

Quantitative MRI of Angiogenesis and Cellularization in Tissue Regeneration

Approved funding: \$129,223 over two years

**Dr. William Gaetz, The Hospital for Sick Children**

Presurgical Assessment of Motor Function in Children

Approved funding: \$128,445 over two years

**2005**

**Dr. Ron Zohar, University of Toronto**

Role of Osteopontin in Inflammatory Colitis

Approved funding: \$115,796 over two years

**Dr. Michael Taylor, SickKids Hospital**

Functional Genomic Dissection of the Initiation and Progression of Medulloblastoma

Approved funding: \$130,000 over two years

**Dr. George Hatzakis, Hôpital Sainte-Justine Centre de Recherche**

Improvement of ICU Therapeutics during Mechanical Ventilation

Approved funding: \$120,060 over two years

**Dr. Keith St. Lawrence, Lawson Health Research Institute**

Early Detection of Brain Injury by Measuring Cerebral Oxygen

Approved funding: \$126,635, over two years

**Dr. Angela Mandich, The University of Western Ontario**

A Cognitive Intervention for Children with Asperger's Syndrome: A Pilot RCT

Approved funding: \$112,493, over two years

**Dr. Andrea Jurisicova, Mount Sinai Hospital**

Investigation of Placental Insufficiencies Caused by Caspase 8 Disruption

Approved Funding: \$130, over two years

**Dr. Richard Wells, Sunnybrook and Women's College Research Institute**

Mechanistic Analysis of the Oncoenic Role of ESR-2 in Leukaemia

Approved funding: \$130,000 over two years

**Dr. Brian Lichty, McMaster University**

Examination of the Respiratory Coronaviruses Group-specific Genes

Approved funding: \$130,000 over two years

**Dr. Stuary Turvey, British Columbia's Children's Hospital**

Role of Innate Immunity and Toll-Like Receptor Signalling in Protecting Children from Severe Pneumococcal Infections

Approved funding: \$127,000 over two years

**Dr. Jennifer Gommerman, University of Toronto**

Regulation of the Germinal Centre Response by TNF Family Members

Approved funding: \$130, over two years

**Dr. Andrea Doria, The Hospital for Sick Children**

Predictors for Diagnostically Accurate Ultrasound in Children with Suspected Appendicitis

Approved funding: \$128,783 over two years

**Dr. Yigal Dror, The Hospital for Sick Children**

SBDS in Granulopoiesis

Approved funding: \$128,960 over two years

**Dr. Eyal Grunebaum, The Hospital for Sick Children**

Correcting Purine Nucleoside Phosphorylase (PNP) Deficiency Using Lenti-Virus Mediated Human PNP Gene Delivery Into Hematopoietic Stem Cells

Approved funding: \$130,000 over two years

**Dr. Janet Rennick, McGill University Health Centre Research Institute**

The Critical Illness Impact Scale for Young Children

Approved funding: \$128,145 over two years

**Dr. Catherine Limperopoulos, McGill University**

Brain Growth and Development in the Fetus with Congenital Heart Disease

Approved funding: \$129,970 over two years

**2004**

**Dr. Darryl J. Adamko, University of Alberta**

A Novel Noninvasive Marker of Asthma Airway Inflammation: Urine NMR

Approved funding: \$130,000 over two years

**Dr. Aaron J. Marshall, University of Manitoba**

Phosphatidylinositol 3-kinase Sub-pathways in Allergic Sensitization and Asthma

Approved funding: \$130,000 over two years

**Dr. Harissios Vliagoftis, University of Alberta**

Early Life Stress and Asthma

Approved funding: \$130,000 over two years

**Dr. Nathalie Bérubé, University of Western Ontario**

Cell Death Signaling Pathways Controlled by ATRX

Approved funding: \$130,000 over two years

**Dr. Madeleine Carreau, CHUQ-Hôpital St-François d'Assise**

Role of Fanconi Anemia Proteins in Development

Approved funding: \$128,918 over two years

**Dr. Angela M. Devlin, British Columbia Research Institute for Children's and Women's Health**

Exposure to Hyperhomocysteinemia During Development and Epigenetic Regulation of Vascular Gene Expression

Approved funding: \$106,000 over two years

**Dr. Christophe Faure, Sainte-Justine Hospital**

PSA-NCAM in Enteric Nervous System

Approved funding: \$130,000 over two years

**Dr. Thomas J. Hawke, York University**

Regulation of Muscle Progenitor Cells in Response to Muscle Damage

Approved funding: \$130,000 over two years

**Dr. Donna Koller, SickKids Hospital**

Evaluating Children's Roles in the Governance of a Paediatric Hospital: The Perceived Impact of a Children's Council

Approved funding: \$97,145 over two years

**Dr. Abhaya V. Kulkarni, SickKids Hospital**

The Determinants of Health in Children with Hydrocephalus

Approved funding: \$94,536 over two years

**Dr. Paige Lacy, University of Alberta**

Novel Signaling Pathways in Neutrophil Degranulation

Approved funding: \$130,000 over two years

**Dr. Honglin Luo, University of British Columbia**

GSK3 $\beta$  Signalling in Cocksackievirus-Induced Myocardial Injury,

Approved funding: \$130,000 over two years

**Dr. Jacques Michaud, Hôpital Sainte-Justine Centre de Recherche**

Dissection of the Developing Program of the Hypothalamus,

Approved funding: \$129,298 over two years

**Dr. Jose Luis Perez Velazquez, SickKids Hospital**

Are Executive Dysfunctions in Autism Reflected in Altered Coordination Dynamics of Brain Activity?

Approved funding: \$129,290 over two years

**2003**

**Dr. Ali A. Ashkar, McMaster University**

Induction of Innate Immunity Against Genital HSV-2 Infection via TLR3 Signaling

Approved funding: \$120,500 over two years

**Dr. Volker Blank, Lady Davis Institute for Medical Research/Jewish General Hospital**

Regulation of MafF by Cytokines in Uterus and Placenta

Approved funding: \$81,600 over two years

**Dr. Janet Brunton, Memorial University of Newfoundland**

The Roles of Arginine, Nitric Oxide and Blood Flow in Small Intestinal Adaptation in the Neonatal Piglet

Approved funding: \$116,713 over two years

**Dr. Farida Cheriet, Hôpital Sainte-Justine Centre de Recherche**

Reliability Study of Non-Invasive Assessment of the 3-D Trunk Asymmetry in Adolescent Idiopathic Scoliosis

Approved funding: \$129,680 over two years

**Dr. Carolyn Emery, University of Calgary**

A Prevention Strategy to Reduce the Incidence of Injury in High School Sport: A Cluster Randomized Clinical Trial

Approved funding: \$78,960 over two years

**Dr. Walid Farhat, The Hospital for Sick Children**

The Search for an Optimal Bladder Substitute

Approved funding: \$130,000 over two years

**Dr. Bernhard Ganss, University of Toronto**

The Role of the Zinc Finger Transcription Factor Krox-26 in Developmental Defects of Tooth and Enamel Formation

Approved funding: \$86,300 over two years

**Dr. Sharyn Gibbins, Sunnybrook & Women's College Health Sciences Centre**

Pain Behaviours in Extremely Low Birth Weight Infants

\$91,838 over two years

**Dr. Donna Goodwin, University of Saskatchewan**

Illness to Wellness: Building Health Capacity for Youth with Spinal Cord Injuries

Approved funding: \$49,950 over two years

**Dr. Abdelilah Soussi Gounni, University of Manitoba**

High Affinity Receptor of IgE (FcεRI) in Airway Smooth Muscle Cells

Approved funding: \$130,000 over two years

**Dr. Vincent Joseph, Centre hospitalier universitaire du Quebec (CHUQ)**

Perinatal Steroids are Necessary for the Normal Development of the Respiratory Controller Network

Approved funding: \$72,769 over two years

**Dr. Donald J. Mabbott, The Hospital for Sick Children**

Neuroimaging and Cognitive Function in Children with Brain Tumors

Approved funding: \$129,395 over two years



**Dr. Bruce Mazer, McGill University**

Understanding Respiratory and Mucosal Allergy Using an Ex Vivo Lymph Node Model  
\$129,176 over two years

**Dr. Marc J. Moreau, University of Alberta**

Improving the Effectiveness of Brace Treatment for Adolescent Scoliosis  
Approved funding: \$76,640 over two years

**Dr. Anne Monique Nuyt, Hôpital Sainte-Justine**

Role of Oxidative Stress in Utero Programming of Hypertension  
Approved funding: \$129,910 over two years

**Stephen Ryan, Bloorview MacMillan Centre**

Effect of Postural Control Devices for Preschoolers on Child Performance, Family Functioning and Caregiver Assistance  
Approved funding: \$104,860 over two years

**Dr. John B. Vincent, Centre for Addiction and Mental Health**

Epigenetic Approaches to Identifying Autism Susceptibility Genes  
Approved funding: \$129,550 over two years

**Dr. Wendy Ward, University of Toronto**

Bone Mass and Growth Following Necrotizing Enterocolitis  
Approved funding: \$86,236 over two years