

New Investigator Research Grants

New Investigator Research Grants is a jointly sponsored program of SickKids Foundation and the Canadian Institutes of Health Research - Institute of Human Development, Child and Youth Health (IHDCYH). New Investigator Research Grants provide important early career development support to child health researchers. It is intended that New Investigator Research Grants will enhance the grant recipient's ability to compete with more senior investigators for research grants from other funders.

2017-2018

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 – 2017

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, Université 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 – 2016

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 – 2015

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
Ilagiinut: 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 - 2014

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 – 2013

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 – 2012

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 – 2011

Dr. Christopher Maxwell, University of British Columbia

Targetting 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 – 2010

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 – 2009

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

2007 – 2008

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 PPRM 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

2006 – 2007

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

Approved funding: \$103,888 over two years

Dr. Tobias Kollmann, University of British Columbia

Development of a Neonatal Pertussis Vaccine: One Shot for Life

Approved funding: \$129,000 over two 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 over two years

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 – 2006

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 EAR-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 – 2005

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

GSK3 β Signalling in Coxsackievirus-Induced Myocardial Injury,

Dr. Honglin Luo, University of British Columbia

Approved funding: \$130,000 over two years

Dissection of the Developing Program of the Hypothalamus,

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

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 – 2004

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