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.

2015 - 2016

Diagnostic and Treatment of Inflammation During Pregnancy

Dr. Sylvie Girard, Sainte-Justine Hospital \$300,000 over 3 years

Resting-state Presurgical Mapping in Children with Epilepsy

Dr. Anne Gallagher, CHU Sainte-Justine Research Centre \$290,716 over 3 years

Costs and Clinical Consequences of Pediatric Whole Genome Sequencing

Dr. Robin Hayeems, The Hospital for Sick Children \$296,050 over 3 years

Piperacillin – Tazobactam Extended Infusion in Infants and Young Children

Dr. Julie Autmizguine, CHU Sainte-Justine Research Centre \$257,325 over 3 years

cMET and Fracture Healing

Dr. Peter Kannu and Dr. Irina Voronov, The Hospital for Sick Children \$167,000 over 3 years

Genetic characterization of focal malformations of cortical development

Dr. Myriam Srour, McGill University Health Centre-Research Institute \$298,855 over 3 years

2014 - 2015

3D Ultrasound in Hip Dysplasia

Dr. Jacob Jaremko, University of Alberta Approved funding: \$257,245 over 3 years

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

Dr. Alexander Beristain, University of British Columbia Approved funding: \$299,385 over 3 years

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

Dr. Sarah Fraser, University of Montreal Approved funding: \$283,288 over 3 years

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

Dr. Gerry Giesbrecht, University of Calgary Approved funding: \$299,454 over 3 years

Role of B Cells in Celiac Disease

Dr. Valerie Abadie, CHU Sainte-Justine Research Centre Approved funding: \$292,116 over 3 years

Thymic Imprinting of T effector Function Throughout Ontogeny

Dr. Heather Melichar, Hôpital Maisonneuve-Rosemont

Approved funding: \$300,000 over 3 years

2013 - 2014

Multicentre Schroth Exercise Trial for Scoliosis (Multicentre SETS study)

Dr. Eric Parent, University of Alberta Approved funding: \$300,000 over 3 years

Transcranial Direct Current Stimulation (tDCS) for Depression in Pregnancy

Dr. Simone N. Vigod, Women's College Hospital Approved funding: \$113,274 over 2 years

Childhood Nutritional and Bacterial Stresses Dictate Obesity-Driven Disease

Dr. Jonathan D. Schertzer, McMaster University Approved funding: \$300,000 over 3 years

Early Detection and Neurodevelopment Impact of Late Onset IUGR

Dr. Mike Seed, The Hospital for Sick Children Approved funding: \$298,390 over 3 years

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

Dr. Nelly Huynh, University of Montreal Approved funding: \$280,712 over 3 years

Learning and reinforcement in adolescents with Autism Spectrum Disorder

Dr. Signe Bray, University of Calgary Approved funding: \$ 296,080 over 3 years

2012 - 2013

Understanding Voltage-Grated Sodium Channel Related Cardiomyopathy

Dr. Elod Szabo, the Hospital for Sick Children Approved funding: \$299,981 over 3 years

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

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

Approved funding: \$298,614 over 3 years

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

Dr. Pia Wintermark, McGill University Health Research Institute

Approved funding: \$300,000 over 3 years

Prevalence and Healthcare Utilization Pattern of Children with Cerebral Palsy

Dr. Maryam Oskoui, McGill University Health Research Institute

Approved funding: \$205,140 over 3 years

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

Dr. Brenda Gladstone, the Hospital for Sick Children

Approved funding: \$178,219 over 2 years

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

Dr. Tanja Gonska, the Hospital for Sick Children Approved funding: \$299,172 over 3 years

2011 - 2012

Pathways from Early Childhood Behaviour and Development to Adolescent Depression

Dr. Ian Coleman, University of Alberta Approved funding: \$282,491 over 3 years

The Glycocalyx During Vascular Development

Dr. Elizabeth Jones, McGill University Approved funding: \$296,679 over 3 years

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

Dr. Theo Moraes, The Hospital for Sick Children Approved funding: \$300,000 over 3 years

Reversibility of Neurobehavioural Deficits Associated with Manganese Exposure From Drinking Water

Dr. Maryse Bouchard, CHU Sainte-Justine Research Centre

Approved funding: \$296,708 over 3 years

2010 - 2011

Targetting Aurora Kinase A in Paediatric Sarcomas

Dr. Christopher Maxwell, University of British Columbia

Approved funding: \$307,064 over 3 years

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

Dr. Thuy Mai Luu, University of Montreal Approved funding: \$311,124 over 3 years

Autism Comes to the Hospital: Experiences of Hospital Care

Dr. Barbara Muskat, The Hospital for Sick Children

Approved funding: \$190,000 over 3 years

2009 - 2010

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

Dr. Elysa Widjaja, The Hospital for Sick Children Approved funding: \$289,043 over 3 years

Spatial Navigation and the Brain During Normal Development

Dr. Jason Lerch, The Hospital for Sick Children Approved funding: \$432,619 over 3 years

Identification of a Gene for Joubert Syndrome

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

Approved funding: \$300,966 over 3 years

Nonconvulsive Seizures Among Critically III children

Dr. Cencil Hahn, The Hospital for Sick Children Approved funding: \$431,694 over 3 years

2008 - 2009

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

Dr. Tanya Peckmann, St. Mary's University Approved funding: \$75,750 over 2 years

Effect of Omega-3 Fatty Acids on Th2 Immunity

Dr. Lisa Cameron, University of Alberta Approved funding: \$120,000 over 2 years

Innate Immune Defences in Neonates Born Early in Gestation

Dr. Pascal Lavoie, British Columbia's Children Hospital

Approved funding: \$129,840 over 2 years

Characterizing a new AE1 mutant causing HS and dRTA

Dr. Emmanuelle Cordat, University of Alberta Approved funding: \$126,730 over 2 years

Signalling Mechanisms of Childhood Kidney Disease

Dr. Nina Jones, University of Guelph Approved funding: \$128,800 over 2 years

The Molecular Mechanisms of Programming in the Liver

Dr. Daniel Hardy, University of Western Ontario Approved funding: \$130,000 over 2 years

SMARCAL1 Modulated Pathways

Dr. Cornelius Boerkoel, University of British Columbia Approved funding: \$130,000 over 2 years

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

Dr. Isabelle Gagnon, The Montreal Children's Hospital

Approved funding: \$129,200 over 2 years

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

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

Approved funding: \$169,985 over 2 years

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

Dr. Sandeep Raha, McMaster University Approved funding: \$129,995 over 2 years

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

Dr. Jocelyn Gravel, Sainte Justine Hospital Approved funding: \$128,500 over 2 years

2007 - 2008

Breastfeeding Analgesia in Preterm Infants

Dr. Liisa Holsti, University of British Columbia Approved funding: \$103,888 over 2 years

Development of a Neonatal Pertussis Vaccine: One Shot for Life

Dr. Tobias Kollmann, University of British Columbia

Approved funding: \$129,000 over 2 years

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

Dr. Hartmut Grasemann, The Hospital for Sick Children

Approved funding: \$130,000 for 2 years

Quantitative MRI of angiogenesis and cellularization in tissue regeneration

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

Approved funding: \$129,223 for 2 years

Presurgical assessment of motor function in children

Dr. William Gaetz, The Hospital for Sick Children

Approved funding: \$128,444 for 2 years

Palmitoylation of the Lysosomal Sorting Receptors

Dr. Stephane Lefrancois, Hopital Maisonneuve-Rosemont

Approved funding: \$129,894 over 2 years

Short Bowel Syndrome Neonatal Piglet Models

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

Approved funding: \$125,380 over 2 years

Genetic Basis of Neural Tube Defects

Dr. Zoha Kibar, Sainte Justine Hospital Approved funding: \$130,000 over 2 years

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

Dr. Emmanuel Bujold, Laval University Approved funding: \$127,254 over 2 years

Using Spinal Cord as a Model to Study Neuronal Migration Disorder

Dr. Artur Kania, Clinical Research Institute of Montreal

Approved funding: \$130,000 over 2 years

Globus Pallidus Deep Brain Stimulation in Children with Dystoni

Dr. Teesta Soman, The Hospital for Sick Children

Approved funding: \$118,617 over 2 years

Severe Influenza in Children: Genetic Determinants and Related Epidemiology

Dr. Dat Tran, The Hospital for Sick Children Approved funding: \$129,926 over 2 years

2006 - 2007

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

Dr. Kathy Boutis, The Hospital for Sick Children, Toronto, Ontario

Approved funding: \$129,775 over two years

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

Dr. Debra Cameron, University of Toronto, Ontario

Approved funding: \$78,964 over two years

Placental Steroids & Respiratory Control Development

Dr. Vincent Joseph, Centre Hospitale-Universitaire du Quebec (CHUQ), Laval, Quebec

Approved funding: \$129,464 over two years

Imaging and Genetic Strategies in Paediatric Major Depressive Disorder

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

Approved funding: \$130,000 over two years

Auditory Development Promoted by Bilateral Cochlear Implantation

Dr. Karen Gordon, The Hospital for Sick Children, Toronto, Ontario

Approved funding: \$130,000 over two years

Role of FLVCR1 in Diamond Blackfan Anemia

Dr Chetankumar Tailor, The Hospital for Sick Children, Toronto, Ontario Approved funding: \$82,322 over two years GIFTS ways \$82,322

Functional Regulation of Thromboxane Receptor in Hypoxic Myocytes

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

Approved funding: \$129,875 over two years

The Progression of Brain Injury in Term Newborns with Encephalopathy

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

Approved funding: \$130,000 over two years

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

Dr. Steven Aurora, McMaster University, Hamilton, Ontario

Approved funding: \$130,000 over two years

Prevention of cisplatinum ototoxicity in cancer patients

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

Approved funding: \$129,880 over two years

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

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

Approved funding: \$129,470 over two years

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

Dr. Mark Friedberg, The Hospital for Sick Children, Toronto, Ontario

Approved funding: \$108,766 over two years

Breastfeeding Analgesia in Preterm Infants

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

Approved funding: \$103,888 over two years

Development of a Neonatal Pertussis Vaccine: One Shot for Life

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

Approved funding: \$129,000 over two years

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

Dr. Hartmut Grasemann, The Hospital for Sick Children, Toronto, Ontario

Approved funding: \$130,000 over two years

Quantitative MRI of Angiogenesis and Cellularization in Tissue Regeneration

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

Approved funding: \$129,223 over two years

Presurgical Assessment of Motor Function in Children

Dr. William Gaetz, The Hospital for Sick Children, Toronto, Ontario

Approved funding: \$128,445 over two years

2005 - 2006

Role of Osteopontin in Inflammatory Colitis

Dr. Ron Zohar, University of Toronto,

Approved funding: \$115,796 over two years

Functional Genomic Dissection of the Initiation and Progression of Medulloblastoma

Dr. Michael Taylor, SickKids Hospital

Approved funding: \$130, 000 over two years

Improvement of ICU Therapeutics during Mechanical Ventilation

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

Approved funding: \$120,060 over two years

Early Detection of Brain Injury by Measuring Cerebral Oxygen,

Dr. Keith St. Lawrence, Lawson Health Research Institute

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

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

Dr. Angela Mandich, The University of Western Ontario

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

Investigation of Placental Insufficiencies Caused by Caspase 8 Disruption

Dr. Andrea Jurisicova, Mount Sinai Hospital Approved Funding: \$130, over two years

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

Dr. Richard Wells, Sunnybrook and Women's College Research Institute Approved funding: \$130,000 over two years

Examination of the Respiratory Coronaviruses Group-specific Genes

Dr. Brian Lichty, McMaster University Approved funding: \$130,000 over two years

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

Dr. Stuary Turvey, British Columbia's Children's Hospital Approved funding: \$127,000 over two years

Regulation of the Germinal Centre Response by TNF Family Members

Dr. Jennifer Gommerman, University of Toronto Approved funding: \$130, over two years

Predictors for Diagnostically Accurate Ultrasound in Children with Suspected Appendicitis,

Dr. Andrea Doria, The Hospital for Sick Children Approved funding: \$128,783 over two years

SBDS in Granulopoiesis,

Dr. Yigal Dror, The Hospital for Sick Children Approved funding: \$128,960 over two years

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

Dr. Eyal Grunebaum, The Hospital for Sick Children, Approved funding: \$130,000 over two years

The Critical Illness Impact Scale for Young Children, Dr. Janet Rennick

McGill University Health Centre Research Institute Approved funding: \$128,145 over two years

Brain Growth and Development in the Fetus with Congenital Heart Disease,

Dr. Catherine Limperopoulos, McGill University Approved funding: \$129,970 over two years

2004 – 2005

A Novel Noninvasive Marker of Asthma Airway Inflammation: Urine NMR

Dr. Darryl J. Adamko, University of Alberta, Approved funding: \$130,000 over two years

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

Dr. Aaron J. Marshall, University of Manitoba Approved funding: \$130,000 over two years

Early Life Stress and Asthma, Dr. Harissios Vliagoftis,

University of Alberta

Approved funding: \$130,000 over two years

Cell Death Signaling Pathways Controlled by ATRX

Dr. Nathalie Bérubé, University of Western Ontario

Approved funding: \$130,000 over two years

Role of Fanconi Anemia Proteins in Development

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

Approved funding: \$128,918 over two years

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

Dr. Angela M. Devlin, British Columbia Research Institute for Children's and Women's Health Approved funding: \$106,000 over two years

PSA-NCAM in Enteric Nervous System,

Dr. Christophe Faure, Sainte-Justine Hospital Approved funding: \$130,000 over two years

Regulation of Muscle Progenitor Cells in Response to Muscle Damage

Dr. Thomas J. Hawke, York University Approved funding: \$130,000 over two years

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

Dr. Donna Koller, SickKids Hospital

Approved funding: \$97,145 over two years

The Determinants of Health in Children with Hydrocephalus,

Dr. Abhaya V. Kulkarni, SickKids Hospital Approved funding: \$94,536 over two years

Novel Signaling Pathways in Neutrophil Degranulation.

Dr. Paige Lacy, University of Alberta

Approved funding: \$130,000 over two years

GSK3ß 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

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

Dr. Jose Luis Perez Velazquez, SickKids Hospital Approved funding: \$129,290 over two years

2003 - 2004

Dr. Ali A. Ashkar, McMaster University Approved funding: \$120,500 over two years

Regulation of MafF by Cytokines in Uterus and Placenta

Dr. Volker Blank, Lady Davis Institute for Medical Research/Jewish General Hospital Approved funding: \$81,600 over two years

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

Dr. Janet Brunton, Memorial University of Newfoundland Approved funding: \$116,713 over two years

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

Dr. Farida Cheriet, Hôpital Sainte-Justine Centre de Recherche Approved funding: \$129,680 over two years

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

Dr. Carolyn Emery, University of Calgary Approved funding: \$78,960 over two years

The Search for an Optimal Bladder Substitute

Dr. Walid Farhat, The Hospital for Sick Children Approved funding: \$130,000 over two years

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

Dr. Bernhard Ganss, University of Toronto Approved funding: \$86,300 over two years

Pain Behaviours in Extremely Low Birth Weight Infants

Dr. Sharyn Gibbins, Sunnybrook & Women's College Health Sciences Centre \$91,838 over two years

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

Dr. Donna Goodwin, University of Saskatchewan, Approved funding: \$49,950 over two years

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

Dr. Abdelilah Soussi Gounni, University of Manitoba, Approved funding: \$130,000 over two years

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

Dr. Vincent Joseph, Centre hospitalier universitaire du Quebec (CHUQ) Approved funding: \$72,769 over two years

Neuroimaging and Cognitive Function in Children with Brain Tumors

Dr. Donald J. Mabbott, The Hospital for Sick Children Approved funding: \$129,395 over two years

Understanding Respiratory and Mucosal Allergy Using an Ex Vivo Lymph Node Model

Dr. Bruce Mazer, McGill University \$129,176 over two years

Improving the Effectiveness of Brace Treatment for Adolescent Scoliosis

Dr. Marc J. Moreau, University of Alberta Approved funding: \$76,640 over two years

Role of Oxidative Stress in Utero Programming of Hypertension

Dr. Anne Monique Nuyt, Hôpital Sainte-Justine Approved funding: \$129,910 over two years

Effect of Postural Control Devices for Preschoolers on Child Performance, Family Functioning and Caregiver Assistance

Mr. Stephen Ryan, Bloorview MacMillan Centre Approved funding: \$104,860 over two years

Epigenetic Approaches to Identifying Autism Susceptibility Genes

Dr. John B. Vincent, Centre for Addiction and Mental Health Approved funding: \$129,550 over two years

Bone Mass and Growth Following Necrotizing Entercolitis

Dr. Wendy Ward, University of Toronto Approved funding: \$86,236 over two years