

2010 OPERATING GRANTS

Each year, the Manitoba Institute of Child Health with support from the Children's Hospital Foundation of Manitoba Inc. awards a number of operating grants based on scientific excellence and relevance to child health research. All grants are reviewed by experts in their respective fields and by the Institute Research Committee (IRC). Operating grant funds are used to support the direct costs (personnel, materials and supplies) of pediatric research. In 2010, 21 applications were received and 13 projects were funded.

Dr. Barb Triggs-Raine "Characterization of the Molecular Basis of Bowen-Conradi Syndrome"	\$41,404
Dr. Hao Ding "Characterization of the genetic alterations in a novel medulloblastoma mouse model"	\$39,904
Dr. Tom Blydt-Hansen "Global metabolic profiling of acute rejection in pediatric kidney transplant recipients"	\$39,000
Dr. Marc Del Bigio "Development & Characterization of Ferret model of hydrocephalus"	\$40,000
Dr. Shyamala Dakshinamurti "Understanding the Mitochondrial Contribution to Agonist-Induced Calcium Release in Hypoxic Pulmonary Arterial Myocytes"	\$38,000
Dr. Redwan Moqbel "Asthma, eosinophils & Tryptophan Catabolism: role of kynurenines and glutamate in immune regulation"	\$40,000
Dr. Harold Aukema "Effect of Dietary Intervention on Disease progression...Effect of dietary interventions on disease progression in the pcy mouse model of nephronophthisis"	\$38,000
Dr. Mojgan Rastegar "Functional Analysis of MeCP2 Isoforms via Retroviral Delivery in embryonic stem cells"	\$37,000
Dr. Shayne Taback "Teenage Pregnancy: Effect on bone health for Mother & Child"	\$37,000
Dr. Maureen Heaman "Pathways between Pre- and Post-natal Maternal Psychological Distress and Childhood Anxiety"	\$30,000
Dr. Zhikang Peng "The role of AMP-activated protein kinase in downregulating immune responses in murine colitis"	\$33,000
Dr. Thomas Klönisch "Impact of oncogene signaling on genomic stability in childhood thyroid carcinoma"	\$33,000
Dr. Sabine Hombach-Klönisch "The developmentally regulated protein HMGA2 in childhood thyroid carcinoma"	\$33,000

2010 CLINICAL POST-DOCTORAL FELLOWSHIP

JOINT COMPETITION COORDINATED THROUGH THE MANITOBA HEALTH RESEARCH COUNCIL
TWO YEAR AWARD VALUED AT \$35,000 PER ANNUM

Dr. Carrie Daymont

Department of Department of Pediatrics and Child Health, Faculty of Medicine, University of Manitoba

Project Title: "Qualitative Evaluation of Clinical Decision-Making for Children with Large or Rapidly Growing Heads"

Supervisor: Dr. Michael Moffatt

2010 POST-DOCTORAL FELLOWSHIPS

JOINT COMPETITION COORDINATED THROUGH THE MANITOBA HEALTH RESEARCH COUNCIL
TWO YEAR AWARD VALUED AT \$36,750 PER ANNUM

Dr. Chen Li

Department of Human Anatomy and Cell Science, Faculty of Medicine, University of Manitoba

Project Title: "Oxidation of SOD1 as a mechanism of motor neuron death in amyotrophic lateral sclerosis (ALS)"

Supervisor: Dr. Jiming Kong

Dr. Kanami Orihara

Department of Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: "A novel role for amphiregulin (AREG) and NMDA receptors in airway smooth muscle hyperresponsiveness and remodeling in asthma"

Supervisor: Dr. Redwan Moqbel

2010 GRADUATE STUDENTSHIPS

JOINT COMPETITION COORDINATED THROUGH THE MANITOBA HEALTH RESEARCH COUNCIL
TWO YEAR AWARD VALUED AT \$17,850 PER ANNUM

Ms. Karin Dunthorne

Department of Human Nutritional Sciences, Faculty of Human Ecology, University of Manitoba

Project Title: "The Effects of Dietary Fatty Acid Composition on Diet Induced Obesity and Insulin Resistance in Skeletal Muscle Tissue of Obese Prone Rats"

Supervisors: Dr. Carla Taylor & Dr. Peter Zahradka

Mrs. Andrea Kroeker

Department of Physiology, Faculty of Medicine, University of Manitoba

Project Title: "A Quantitative Analysis of Influenza A Infection in Human Primary Epithelial Cells"

Supervisors: Dr. Andrzej Halayko & Dr. Kevin Coombs

Ms. Yingfeng Zheng

Department of Medical Microbiology, Faculty of Medicine, University of Manitoba

Project Title: "Functional role and molecular mechanism underlying the action of HIV-1 integrase during viral DNA chromatin targeting"

Supervisor: Dr. Xiaojian Yao

Mrs. Samantha Pauls

Department of Biochemistry and Medical Genetics, Faculty of Medicine, University of Manitoba

Project Title: "The role of Bam32 in mast cell signaling through Fc(epsilon)R1"

Supervisor: Aaron Marshall

Mr. Emeka Okeke

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: "Regulation of Sepsis and Septic Shock by Regulatory T Cells"

Supervisor: Dr. Jude Uzonna

Ms. Carolyn Weiss

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: "The role of membrane protein caveolin-1 in murine colitis and the immune mechanisms involved"

Supervisor: Dr. Zhikang Peng

Mr. Qi Zhang

Department of Human Anatomy & Cell Science, Faculty of Medicine, University of Manitoba

Project Title: "Role of DLX transcription factors in retinal development"

Supervisor: Dr. David Eisenstat

Ms. Ruoyang Shi

Department of Human Anatomy and Cell Science, Faculty of Medicine, University of Manitoba

Project Title: "A mechanistic study of neuronal cell death following neonatal stroke"

Supervisor: Dr. Jiming Kong

Mr. Vidyanand Anaparti

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: "Role of glutamate (NMDA) receptors on airway smooth muscle cells in regulating asthmatic airway remodeling and airway hyperresponsiveness"

Supervisor: Dr. Redwan Moqbel

Mr. Ousama Rachid

Faculty of Pharmacy, University of Manitoba

Project Title: "Evaluation of the Effects of Non-Medicinal Ingredients on the in vitro Characteristics and in vivo Behavior of a Sublingual Tablet Formulation of Epinephrine"

Supervisor: Dr. Keith Simons

Mrs. Tanya Kozera

Department of Applied Health Sciences, Faculty of Medical Rehabilitation, University of Manitoba

Project Title: "Physical literacy and participation in children"

Supervisor: Dr. Dean Kreillaars

Ms. Lara Gushulak

Department of Biochemistry and Medical Genetics, Faculty of Medicine, University of Manitoba

Project Title: "Does β -hexosaminidase play a significant role in hyaluronan degradation?"

Supervisor: Dr. Barbara Triggs-Raine

Dr. Payam Pahlavan

Department of Pharmacology & Therapeutics, Faculty of Medicine, University of Manitoba

Project Title: "Differential Activation of Transcription Factors including NF- κ B and CREB in Synaptic Plasticity and Memory Induced by Calcium Response"

Supervisor: Dr. Benedict Albeni

2010 UNDERGRADUATE STUDENTSHIPS

12 WEEK STIPEND VALUED AT \$5,000

STUDENT

Tanya Burch
Natascha Clark
Kimmie Fung
Ashley Furlong
Andrea Globa
Alana Lyons
Inderveer Mahal
Emma Markstrom
Shannon Mohoric
Oussama Outbih
Ashley Pauls
Matthew Pierce
Ashleigh Reid
Lindsay Robertson
Jennifer Young
Shelley Halchuk

SUPERVISOR

Dr. Alison Elliott
Dr. Kent Hayglass
Dr. James Friel
Dr. Barb Triggs-Raine
Dr. David Eisenstat
Dr. Carla Taylor
Dr. Andrew Halayko
Dr. J.E. Scott
Dr. Judy Anderson
Dr. Shyamala Dakshinamurti
Dr. Tammy Ivanco
Dr. Ganesh Srinivasan
Dr. Harold Aukema
Dr. Allan Becker
Dr. Carla Taylor
Dr. Robert Schroth