

2008 OPERATING GRANTS

Each year MICH through 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 Foundations Institute Research Committee (IRC). Operating grant funds are used to support the direct costs (personnel, materials and supplies) of pediatric research. A total of 21 applications were received, 10 were funded.

Dr. Shyamala Dakshinamurti \$45,000

Project Title: Functional Regulation of Neomatal Pulmonary Arterial Thromboxan Receptor Signalling.

Dr. Marc Del Bigio \$45,000

Project Title: Hydrocephalus and the Cerebrovascular System.

Dr. David Eisenstat \$45,000

Project Title: Genetic Regulation of Forebrain Development by DLX Transcription Factors: Relevance to Neurodevelopment Disorders.

Dr. Joanne Embree \$21,500

Project Title: Risk Factors and Geographic Variation in Antibiotic Susceptibilities of Methicillin Resistant Staphylococcus aureus in a Canadian Pediatric population.

Dr. Emma Frost \$41,983

Project Title: Molecular Mechanisms underlying the Regulation of Oligodendrocyte Progenitor Behaviour.

Dr. Ruth Graham \$39,686

Project Title: Biologically variable ventilation in porcine models of acute respiratory distress syndrome with and without surfactant replacement: CT/PET mechanistic studies.

Dr. Sam Kam Pun Kung \$39,643

Project Title: Dendritic Cells in Natural Killer Cell Differentiation.

Dr. Michael Namaka \$45,000

Project Title: Multiple Sclerosis Induced Neuropathic Pain.

Dr. Zhikang Peng \$45,000

Project Title: Vaccines against IgE in Suppression of Airway Inflammation and Remodelling in Mice.

Dr. Martin Reed \$45,000

Project Title: Radiation Dose to Patients in Neonatal Intensive Care Units

MICH through the Children's Hospital Foundation of Manitoba, Inc. provides trainee awards to individuals enrolled in undergraduate studies in Master's or Ph.D. level degree programs. Awards are also provided to Postdoctoral Fellows and Clinical Postdoctoral Fellows. Priority is given to students in the early stages of their studies.



2008 GRADUATE STUDENTSHIPS

(JOINT COMPETITION RUN THROUGH THE MANITOBA HEALTH RESEARCH COUNCIL)

2 YEAR AWARD VALUED AT \$17,850/ANNUM

Ms. Farhana Begum BSc MHRC/MICH STUDENTSHIP

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

Project Title: Multiple Sclerosis induced neuropathic pain.

Supervisor: *Dr. Emma Frost*

Mr. Mario Fonseca BSc MHRC/CANCERCARE/MICH STUDENTSHIP

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

Project Title: DLX transcription factors in intestinal development and colon cancer.

Supervisor: *Dr. David Eisenstat*

Ms. Kristin Hauff BSc MHRC/MICH STUDENTSHIP

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

Project Title: The Effect of the Barth Syndrome Gene, TAZ, on Cholesterol Biosynthesis.

Supervisor: *Dr. Grant Hatch*

Mr. Tyler Hynes BSc MHRC/MICH STUDENTSHIP

Department of Physiology, Faculty of Medicine, University of Manitoba

Project Title: Role of Caveolae and Caveolins in Pro-Inflammatory Responses and Changes in Lung Function in Acute Exposure to House Dust Mite.

Supervisor: *Dr. Andrew J. Halayko*

Ms. Gail Pollard BSc MHRC/MICH STUDENTSHIP

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

Project Title: Lung development and Fungal spores: in vitro and in vivo comparisons.

Supervisor: *Dr. JA Thliveris & Dr. EJ Scott*

Mrs. Jennifer Protudjer BSc, MSc MHRC/MICH STUDENTSHIP

Department of Applied Health Sciences, Faculty of Human Ecology, University of Manitoba

Project Title: Temporal Associations between obesity and asthma in pubertal children:

A multimethod substudy of the gender-related evolution of asthma team (GREATice).

Supervisor: *Dr. Gustaaf Sevenhuysen & Dr. A. Becker*

Mr. Ousama Rachid BSc, MSc MHRC/MICH STUDENTSHIP

Department of Pharmacy, University of Manitoba

Project Title: The Effects of Non-Medicinal ingredients on the absorption of epinephrine from sublingual tablets.

Supervisor: *Prof. Keith J. Simons*

Joumana Salame MHRC/MICH STUDENTSHIP

Department of Oral Biology, Faculty of Dentistry, University of Manitoba

Project Title: Periodontal ligament and respiratory lung cells altered MMPs expression upon exposure to cigarette smoke extract.

Supervisor: *J. Elliot Scott*

Mrs. Erin Shepherd BN MHRC/MICH STUDENTSHIP

Faculty of Nursing, University of Manitoba

Project Title: The Lived Experience of Parents Caring for Children who have Completed Treatment for Childhood Cancer.

Supervisor: *Dr. Roberta Woodgate*

Alina-Gabriela Sofronescu BSc, MSc MHRC/MICH STUDENTSHIP

Department of Physiology, Faculty of Medicine, University of Manitoba

Project Title: Characterization of fibroblast growth factor 16 (FGF-16) promoter activity in postnatal cardiac cells in vitro and in vivo.

Supervisor: *Dr. Peter A. Cattini*

Mr. Parvez Vora BSc, MSc MHRC/MICH STUDENTSHIP

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

Project Title: Role of transcription factor, MeCP2 in regulation in Rett Syndrome.

Supervisor: *Dr. Emma Frost*

Jiequn Weng BSc MHRC/MICH STUDENTSHIP

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

Project Title: Protecting hypoxia-induced neuronal death by targeting the BNIP3 death gene family.

Supervisor: *Dr. Jiming Kong*

Ms. Kathryn Williamson BA, MA MHRC/MICH STUDENTSHIP

Department of Psychology, Faculty of Arts, University of Manitoba

Project Title: Detection of biological motion in adolescents born prematurely and aged-matched controls.

Supervisor: *Dr. Jakobson*

Mr. Qi Zhang BSc, MSc MHRC/CANCERCARE/MICH STUDENTSHIP

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

Project Title: Identification and Characterization of DLX homeobox gene transcriptional targets in retinal development.

Supervisor: *Dr. David Eisenstat*

Miss Yingfeng Zheng BSc, MSc MHRC/MICH STUDENTSHIP

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: *Xiaojian Yao*

(FUNDS PROVIDED BY MICH, MHRC, CANCERCARE)

2008 CLINICAL POST DOCTORAL FELLOWSHIPS

(2 YEAR AWARD VALUED AT \$45,000/ANNUM)

(FUNDS PROVIDED BY MICH)

Dr. Sergio Fanella, MD, FRCPC

Department of Medical Microbiology & Department of Pediatrics, University of Manitoba

Project Title: Risk Factors and Geographic Variation in Antibiotic Susceptibilities of Metyhicillin Resistant Staphylococcus Aureus in a Canadian Pediatric Population.

Supervisor: *Dr. Joanne Embree*

(2 YEAR AWARD VALUED AT \$70,000/ANNUM)
(FUNDS PROVIDED BY MICH AND MHRC)

Dr. Edward Leung BSc, MD

Department of Pediatrics, Faculty of Medicine, University of Manitoba

Project Title: Utilization of MR spectroscopy for the Assessment of Efficacy of Treatment for Glutaric Aciduria Type 1.

Supervisor: *Dr. Cheryl R Greenberg*

Dr. Brandy Wicklow BSc, MSc, MD, BSc Med

Department of Pediatrics, Faculty of Medicine, University of Manitoba

Project Title: The role of pancreatic steatosis in the pathophysiology and progression of type 2 diabetes in adolescents.

Supervisor: *Dr. Jon McGavock & Dr. Elizabeth Sellers*

2008 POST DOCTORAL FELLOWSHIPS

(JOINT COMPETITION RUN THROUGH THE MANITOBA HEALTH RESEARCH COUNCIL)
(2 YEAR AWARDS VALUED AT \$36,750/ANNUM)

Dr. Aiping Bai BSc, MSc, Ph MHRC/MICH FELLOWSHIP

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

Project Title: A new therapeutic strategy for treatment and study of immune mechanisms in IBD-novel vaccines to down-regulate pathogenic cytokines and induce immune anergy in murine colitis.

Supervisor: *Dr. Zhikang Peng*

Dr. Mark Loewen BSc, MSc MHRC/MICH FELLOWSHIP

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

Project Title: Origins of Asthma in Early Life: What is the role of perfluorinated chemicals in the indoor environment?

Supervisor: *Dr. Allan Becker*

Dr. Trushar R. Patel BSc, MSc, PhD MHRC/MICH FELLOWSHIP

Department of Chemistry, Faculty of Science, University of Manitoba

Project Title: Investigation of Recombinant agrin as a therapeutic agent.

Supervisor: *Dr. Joerg Stetefeld*

Dr. Dedmer Schaafsma MHRC/MICH FELLOWSHIP

Department of Physiology and Internal Medicine, Faculty of Medicine, University of Manitoba

Project Title: Statins as a therapeutical intervention in airway remodelling in asthma?

Supervisor: *Dr. Andrew J. Halayko*

2008 Undergraduate Studentship Awards

\$4500 stipend – 12 weeks

(FUNDS PROVIDED BY MICH AND MHRC)

2008 UNDERGRADUATE STUDENTSHIP AWARD

\$4500 stipend – 12 weeks

Kelvin Au (Mike Namaka)
Emily Blunden (Bill Diehl Jones)
Justin Cloutier (Heather Dean)
Samantha Gilley (Aaron Marshall)
Stevi Golden Plotnik (Elizabeth Sellers)
Lara Gushulak (Elliott/Chudley)
Cory Kowal (Emma Frost)
Monica Li (Louise Giles)

Ayat Mneina (David Eisenstat)
Yuchen Mu (James Friel)
Evan Neduzak (Andrew Halyko)
Shan Pirzada (Sabine Hombach Klonish)
Bria Sharkey (Jon McGavock)
Roshni Tailor (Zhikang Peng)
Eric Ho-Man Tsang (Richard Gordon)
Cielle Wachnian (Kiem Oen)
Sheldon Xu (Grant Hatch)