

2009 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 2009, 23 applications were received and 11 projects were funded.

Dr. Judy Anderson	\$38,247
"Cerebellar Pathophysiology associated with Duchenne Muscular Dystrophy"	
Dr. Shyamala Dakshinamurti	\$45,000
"Effect of Milrinone on Pulmonary Circuit Hemodynamics in Hypoxia PPHN"	
Dr. William Diehl-Jones	\$39,500
"Genomic Effects of Human Milk and Human Milk Fortifiers"	
Dr. David Eisenstat	\$45,000
"Role of DLX transcription factors in enteric nervous system and intestinal development: implications for Hirschsprung Disease"	
Dr. James K. Friel	\$40,669
"Evidence Base for Feeding Mother's Milk to Premature Infants"	
Dr. Andrew Halayko	\$43,968
"Neutrophil-derived S100AS/A9 as an inflammatory mediator in allergic airway disease"	
Dr. Sara J. Israels	\$41,815
"Markers of Platelet Activation in Children with Diabetes Mellitus"	
Dr. Mojgan Rastegar	\$41,310
"Epigenetic in Disease: Identification of MeCP2 Targets for Rett Syndrome"	
Dr. Robert Schroth	\$45,000
"Do children with Severe Early Childhood Caries (S-ECC) have lower vitamin D levels and other nutritional deficiencies compared to their caries-free peers?"	
Dr. Jude Uzonna	\$45,000
"Regulation of Endotoxic shock by regulatory T cells"	
Dr. Xi Yang	\$45,000
"Modulating Effect of Natural Killer T Cells (NKT) on the Function of Dendritic Cells (DC) in Chlamydial Infection"	

2009 POST DOCTORAL FELLOWSHIPS

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

Dr. Kimberley Arbeau

Department of Family Social Sciences, Faculty of Human Ecology, University of Manitoba

Project Title: Shyness and Shame in Middle Childhood: Can the Combination Lead to the Most Detrimental Outcomes?

Supervisor: Dr. Rosemary Mills

Dr. Zhirong Mou

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: Identification of Leishmania major antigenic peptides that elicit protective memory T cell response

Supervisor: Dr. Jude Uzonna

Dr. Jingbo Zhang

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: Molecular Regulation and Function of Pentraxin 3 in Allergic Asthma

Supervisor: Dr. Abdelilah Soussi Gounni

2009 GRADUATE STUDENTSHIPS

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

Joy Armistead, PhD student

Department of Biochemistry and Medical Genetics, Faculty of Graduate Studies, University of Manitoba

Project Title: Effect of D86G substitution on the EMG1 protein function in Bowen-Conradi Syndrome

Supervisor: Dr. Barbara Triggs-Raine

Jyoti Balhara, Master's student

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: Regulation of High Affinity IgE Receptor (FcεRI) by Mechanotransduction in Human Airway Smooth Muscle Cells

Supervisor: Dr. Abdelilah Soussi Gounni

Kallesh Danapa Jayappa, PhD student

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

Project Title: The role of HIV-1 karyophilic proteins (IN, MA, Vpr) and host cellular nuclear import receptors in HIV-1 nuclear import and propagation

Supervisor: Dr. Xiaojian Yao

Janelle De Rocquigny, Master's student

Department of Community Health Sciences, Faculty of Medicine, University of Manitoba

Project Title: Manitoba's French-Speaking Children: How Healthy Are They?

Supervisor: Dr. Noralou Roos

Jena Fediuk, PhD student

Department of Physiology, Faculty of Medicine, University of Manitoba

Project Title: Effects of Thromboxane Receptor Signaling and Rho-GTPases Activation on Actin Polymerization and Contraction in Hypoxic Neonatal Pulmonary Arterial and Aortic Myocytes

Supervisor: Dr. Shyamala Dakshinamurti

Xiaoling Gao, PhD student

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

Project Title: Role of Dendritic cell subsets in generating protective immunity against tuberculosis infection and Inhibition of Allergy through BCG vaccination

Supervisor: Dr. Xi Yang

Andrea Kroeker, Master's student

Department of Physiology, Faculty of Medicine, University of Manitoba

Project Title: Quantitative Analyses of Host Cell Protein Response to Influenza Infection in Primary Human Airway Epithelial Cells

Supervisor: Dr. Andrew Halayko and Dr. Kevin Coombs

Sajid Mahmood, Master's student

Department of immunology, Faculty of Medicine, University of Manitoba

Project Title: Molecular Mechanisms Underlying Natural Killer Cell Differentiation and Acquisition of Target Recognition

Supervisor: Dr. Sam K. P. Kung

Karen Penner, PhD student

Department of Psychology, Faculty of Arts, University of Manitoba

Project Title: Assessment of executive function in at-risk preschool children: deconstructing the role of central attention, active working memory, and visual processing

Supervisor: Dr. Lorna Jakobson

Naresh Redhu, PhD student

Department of Immunology, Faculty of Medicine, University of Manitoba

Project Title: Molecular Regulation and Function of the High Affinity IgE Receptor (FceRI) in Human Airway Smooth Muscle Cells

Supervisor: Dr. Abdelilah Soussi Gounni

Anurag Singh Sikarwar, Master's student

Department of Physiology, Faculty of Medicine, University of Manitoba

Project Title: Effects of Hypoxia on Signaling Crosstalk Between Adrenergic and Prostanoid Receptor In the Newborn Pulmonary Circuit

Supervisor: Dr. Shyamala Dakshinamurti

Darolyn Walker, PhD student

Department of Kinesiology, Faculty of Applied Health Sciences, University of Manitoba

Project Title: Physical activity for overweight youth at risk for type 2 diabetes

Supervisor: Dr. Jon McGavock

Robby Zachariah, Master's student

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

Project Title: MeCP2 Isoform-Specific Targets and Function in Neuronal Maturation and Dendrite Branching

Supervisor: Dr. Mojgan Rastegar

2009 UNDERGRADUATE STUDENTSHIPS

12 WEEK STIPEND VALUED AT \$5,000

Student Name

Kelvin Au
Sherry Bilenki
Henry Chong Sio Cheng
Katie Cook
Jacquelyn Dumontet
Ashley Furlong
Shelley Halchuk
Alanna Junaid
Hyeun Duk (Walter) Kim
Jonathan Kim
Jeremy Levi
Inderveer Mahal
Emma Markstrom
Evan Neduzak
Marcel Philippe Joseph Peloquin
Kelsi Quinn
Artemis Schroedter
Takafumi Yamaguchi
Michael Yong

Supervisor

Dr. Michael Namaka
Dr. Barb Triggs-Raine
Dr. Sam K. P. Kung
Dr. Grant Hatch
Dr. Jon McGavock
Dr. Mojgan Rastegar
Dr. Robert Schroth
Dr. David Eisenstat
Dr. Emma Frost
Dr. Tom Klonisch
Dr. Allan Becker
Dr. Andrew Halayko
Dr. James Elliott Scott
Dr. Ganesh Srinivasan
Dr. Tammy Ivanco
Dr. Aziz Mhanni
Dr. Maria Vrontakis
Dr. Spencer Gibson
Dr. Zhikang Peng