

2007 B.H.Sc. Summer Research Scholarship Recipients

STUDENT	RESEARCH TOPIC / DESCRIPTION	SUPERVISOR
Sana Bashir	<ul style="list-style-type: none"> ◆ The study will localize myocilin in differentiated RGC's for the first time and determine if myocilin expression changes after RGC stress. 	Alexander Ball Department: Pathology and Molecular Medicine
Victoria Borg Debono	<ul style="list-style-type: none"> ◆ An investigation into the sensory mechanisms and pathways responsible for the recognition of intermediates produced by the bacterium <i>Streptomyces coelicolor</i> for the antibiotic actinorhodin. 	Justin Nodwell Department: Biochemistry and Biomedical Sciences
Tiffany Chan	<ul style="list-style-type: none"> ◆ Modelling OCD in Rats ◆ Injections of quinpirole should promote checking behaviour in rats. 	Henry Szechtman Department: Psychiatry and Behavioural Neurosciences
Harman Chaudhry	<ul style="list-style-type: none"> ◆ Patient priorities in living with Diabetes ◆ This study aims to: describe patient activities in Diabetes management; Rank order the importance of these activities from the patient's perspective; and determine key demographic characteristics distinguishing those that have and have not incorporated Diabetes management activities. 	Anne Holbrook Department: Medicine
Marie Coroneos	<ul style="list-style-type: none"> ◆ Testing the Security-Motivation Theory of OCD ◆ Security-Motivation Theory of OCD, which posits that OCD results from improper termination of the security-motivation system which evaluates potential dangers in the environment. 	Henry Szechtman Department: Psychiatry and Behavioural Neurosciences
Rami Elias	<ul style="list-style-type: none"> ◆ Study of the expression of Tyrosine kinase receptors and cognate ligands in endometriosis associated ovarian cancer (EAOC). 	Warren Foster Department: Obstetrics & Gynecology
Kathleen Fraser	<ul style="list-style-type: none"> ◆ Impact of bacterial colonization on respiratory host defense ◆ The focus of this project is on the impact of chronic bacterial infection on respiratory host defense. 	Martin Stampfli Department: Pathology and Molecular Medicine
Vasudha Gupta	<ul style="list-style-type: none"> ◆ How complete are systematic reviews in observational epidemiology? ◆ There are problems with how well researchers identify relevant studies for a systemic review. ◆ We plan to explore this problem by selecting several published and unpublished review topics and discovering how thorough and complete the literature searches were in each case. 	Harry Shannon Department: Clinical Epidemiology & Biostatistics

Karen Ho	<ul style="list-style-type: none"> ◆ Mucosal immune responses to HSV-2 infection in lymphotoxin alpha knockout (LTKO) mice ◆ This research will build on studies that have previously reported the effect of hormones on susceptibility and immune responses to HSV-2 infection. 	Charu Kaushic Department: Pathology and Molecular Medicine
Sarah Holtby	<ul style="list-style-type: none"> ◆ Analysis of expression levels of stress factors in people with metabolic syndrome ◆ The hypothesis of this research is that endoplasmic reticulum (ER) stress-activated pathways play an important role in the development and progression of atherosclerosis and other complications associated with diabetes and obesity. 	Geoff Werstuck Department: Medicine and Biochemistry and Biomedical Sciences
Tahir Kanji	<ul style="list-style-type: none"> ◆ IFN Responsiveness of Tumor Cell Lines ◆ To isolate clones of varying responsiveness to IFN. 	Brian Lichty Department: Pathology and Molecular Medicine
Chitra Laloo	<ul style="list-style-type: none"> ◆ Central post-stroke pain: an animal model: CPSP is a devastating, but underappreciated consequence of stroke illness. This animal model of CPSP, the first of its kind, strives to illuminate disease mechanisms and guide future treatment directions. 	James Henry Department: Psychiatry and Behavioural Neurosciences and Anesthesia
Tyler Law	<ul style="list-style-type: none"> ◆ Evaluating National Efforts to Bridge the Worlds of Research and Policy ◆ Objectives: 1) Document current capacity to produce systematic reviews in the 27 countries participating in WHO-sponsored Evidence-Informed Policy Networks (EVIPNet) and Regional East African Community Health – Policy (REACH-Policy); 2) Assist in the development of tools that describe the structures, processes, outputs and outcomes of the 27 countries' efforts to bridge research and policy. 	John Lavis Department: Clinical Epidemiology & Biostatistics
Patrick Martin	<ul style="list-style-type: none"> ◆ Impact of long-term immune dysfunction on adult neurogenesis in mice. 	Jane Foster Department: Psychiatry and Behavioural Neurosciences
Kyle Moulton	<ul style="list-style-type: none"> ◆ Oxidative Mechanisms of Rifampin Resistance ◆ Rifampin is an antibiotic used primarily for treatment of tuberculosis. New members of this antibiotic family are being reviewed for use in treatment of other infections. Literature reports of environmental bacteria oxidatively inactivating the rifampin suggest that there is potentially a reservoir of novel resistance that may impact the use of the antibiotic in the future. We will express and study the predicted rifampin oxidase from Rhodococcus and establish an assay for this reaction. 	Gerry Wright Department: Biochemistry and Biomedical Sciences

Raman Mundi	<ul style="list-style-type: none"> ◆ Patient Decision Making for Surgery After Hip Fracture. ◆ To test the reliability and validity of a decision board and to conduct a cost-benefit analysis between total hip replacement and hemiarthroplasty for treatment of displaced femoral neck fracture. 	Mohit Bhandari Department: Surgery and Clinical Epidemiology & Biostatistics
Katrina Piggott	<ul style="list-style-type: none"> ◆ Characterization of pilus-like proteins essential for Pseudomonas aeruginosa pilus function. 	Lori Burrows Department: Biochemistry and Biomedical Sciences
Tony Soeyonggo	<ul style="list-style-type: none"> ◆ Evaluation of perioperative morbidity and mortality in Thoracic Surgery, McMaster University ◆ Creation of lung cancer database 	John Miller Department: Surgery
Shuang Xu	<ul style="list-style-type: none"> ◆ Natural Health Product Utilization Amongst Ontario Seniors ◆ Preparation and analysis of the data collected in a random digit telephone dialing survey conducted in Hamilton involving over 1000 persons aged > 60 years regarding the use of natural health products (e.g. herbal therapies). 	Mitchell Levine Department: Clinical Epidemiology & Biostatistics
Savio Yu	<ul style="list-style-type: none"> ◆ E-health Research Topics: i) The benefits and Risks of electronic prescribing in the Community ii) Systematic Review of Adverse Drug Event Detection and iii) Impact on drug utilization of shared electronic vascular disease decision support 	Anne Holbrook Department: Medicine