

# ***Senate Research Report***

*May 28, 2013*

## *Awards and Honours*

Dr. Ram Murty (Mathematics and Statistics) has been awarded a Simons Fellowship in Mathematics that enables a research leave. The prize is valued at \$102,320.

## *Research Funding*

### **AHSC AFP Innovation Fund**

Dr. Gregory Davies (Obstetrics and Gynaecology): \$92,000 for *Comprehensive, non-invasive prenatal genetic testing via maternal blood: A proof-of-concept study.*

Dr. Richard Henry (Anesthesiology and Perioperative Medicine): \$31,000 for *Prospective, randomized, controlled trial comparing conservative therapies for the alleviation of knee pain in knee osteoarthritis.*

Dr. John Muscedere (Medicine): \$72,000 over two years for *Prevention of nosocomial infections in critically ill patients with lactoferrin (PREVAIL) study.*

Dr. Chris Evans (Emergency Medicine): \$92,000 for *A prospective evaluation of the safety and effectiveness of a provincial prehospital trauma bypass guideline for adult major trauma patients in Eastern Ontario.*

Dr. Amer Johri (Medicine): \$69,000 over two years for *Three-dimensional carotid ultrasound combined with stress echocardiography (3D CSE) for the assessment of cardiovascular disease.*

Dr. Diane Lougheed (Medicine): \$92,000 for *AsthmaLife: Integrating performance evaluation into the process of asthma care.*

Dr. Curtis Nickel (Urology): \$89,000 over two years for *A prospective randomized technology assessment trial of prostate laser implementation in a Canadian hospital.*

Dr. Tarit Saha (Anesthesiology and Perioperative Medicine): \$66,000 over two years for *Does the speed of sternal retraction during cardiac surgery affect postoperative pain outcomes: A randomized controlled trial.*

Dr. Kim Turner (Anesthesiology and Perioperative Medicine): \$23,000 for *Use of Boussignac CPAP system immediately following extubation to improve lung function in adults with moderate to severe obstructive sleep apnea who are not morbidly obese.*

Dr. Michael Leveridge (Urology): \$36,000 over two years for *Management and outcomes of testicular cancer in routine clinical practice: A population-based outcomes study.*

Dr. Sulaiman Nanji (Surgery): \$20,000 for *Molecular profiling to improve outcomes in patients with hepatocellular carcinoma.*

Dr. Ray Viola (Medicine): \$20,000 for *Evaluation of community palliative care initiatives to reduce hospital utilization in Southeastern Ontario.*

## **Canadian Institutes of Health Research (CIHR)**

### **Catalyst Grant**

Dr. Douglas Spencer Moore, Jr. (School of Kinesiology and Health Studies): \$98,575 for *Forming the Montreal neighbourhood networks and healthy aging panel: A panel for future studies of social capital, neighbourhood environments, and health care system use over the life course.*

## **Canadian Institutes of Health Research (CIHR)**

### **Collaborative Health Research Projects**

Dr. Gabor Fichtinger (School of Computing): \$336,940 over three fiscal years for *Perk Tutor: Ultrasound-guided needle placement training platform.*

## **Canadian Institutes of Health Research (CIHR)**

### **Team Grant: Letter of Intent**

Drs. Stephen Vanner (Medicine) and Curtis Nickel (Urology): \$20,000 as a development grant for *Bowel-bladder inflammatory pain syndrome: A new clinical disorder.*

## **Canadian Institutes of Health Research (CIHR)**

### **Operating Grant: Population Health Intervention Research**

Dr. Lucie Levesque (School of Kinesiology and Health Studies): \$199,431 for *Dissemination of "Pausa Activa": a strategy to enhance physical activity promotion in health care settings in Mexico: Investigating program implementation and impact*. In partnership with CIHR – Institute of Cancer Research; Public Health Agency of Canada; CIHR Institute of Population and Public Health

## **Dupont Performance Coatings LLC**

Dr. Robin Hutchinson (Chemical Engineering): \$40,000 for *Polymer reaction engineering*.

## **Natural Sciences and Engineering Research Council of Canada (NSERC)**

### **Collaborative Research and Development Grant**

Dr. Joshua Marshall (Robert M. Buchan Department of Mining): \$80,867 for *uGPS: 3D mapping, real-time localization, and machine coordination in underground mines*. Sponsors: Barrick Gold (\$120,000 cash and \$72,000 in-kind); Peck Tech Consulting Ltd. (\$4,166 cash and \$132,500 in-kind).

## **Natural Sciences and Engineering Research Council of Canada (NSERC)**

### **Engage Grant**

Dr. Michael Cunningham (Chemical Engineering): \$25,000 for *Development and mechanistic studies of core-shell hybrid nanoparticles based on modified EcoSphere® starch-based nanoparticles*. Sponsor: EcoSynthetix Inc. (\$27,660 in-kind).

## **Ontario Ministry of Transportation**

Dr. Mark Green (Civil Engineering): \$26,625 for *Effects of fire on bridge components reinforced with FRP internal reinforcement*.

Dr. Simon Hesp (Chemistry): \$50,000 for *Determination of low temperature properties of asphalt mixes based on AASHTO T322 and bending beam rheometer (BBR).*

### **PARTEQ Research & Development Innovations**

Dr. Bruce Tufts (Biology) received \$10,000 for *Livewell protection device to improve fish survival and well-being.*

### **William M. Spear Memorial Fund/Start Memorial Fund**

Dr. Alberto Neder (Medicine): \$29,998 for *Cardiopulmonary interactions during exercise in patients with COPD-CHF overlap.*

Dr. Denis O'Donnell (Medicine): \$31,200 for *Mechanisms of dyspnea in advanced COPD: Insights from brain functional magnetic resonance imaging.*

Dr. Diane Loughheed (Medicine): \$29,998 for *Health care utilization for asthma: Is abnormal symptom perception a risk factor?*

Dr. John Fisher (Biomedical and Molecular Sciences): \$30,000 for *Physiological genomics of muscarinic receptor subtypes in airway hyperresponsiveness.*

### **Violet Powell Research Fund**

Dr. Sameh Basta (Biomedical and Molecular Sciences): \$10,000 for *Virus infections of activated macrophages.*

Dr. Jagdeep Walia (Pediatrics): \$10,000 for *A synergy of anti-inflammatory drugs with gene therapy for the correction of GM2 gangliosidosis.*