



**NATIONAL RESEARCH PROGRAMS
FUNDING REPORT
2011-2012**

THE LUNG ASSOCIATION
RESEARCH FUNDING REPORT

2011-2012 TOTAL: \$1,834,695

1. The CRHP Research Committee of the Canadian Lung Association peer reviewed 3 fellowship applications and 10 grant applications for the 2011-2012 competition. Here are the successful award recipients:

CRHP/CLA TOTAL: \$ 126,619

Fellowships (1 year award)

Laura Desveaux, PhD, Rehabilitation Science, University of Toronto	\$10,000
Bahareh Haj Ghanbari, PhD, Rehabilitation Science, UBC	\$10,000
Krista Keilty, PhD, Nursing Science, University of Toronto	\$10,000

Grants (1 year award)

PI: Dina Brooks
Title: Single leg cycling for COPD: knowledge translation to pulmonary rehabilitation programs
Amount: \$20,740

PI: Pat Camp
Title: Validation of the de Morton Mobility Index (DEMMI) in Hospitalized Patients with an Acute Exacerbation of COPD
Amount: \$24,391

PI: Tania Janaudis-Ferreira
Title: Arm activity in daily life in chronic obstructive pulmonary disease
Amount: \$1,557 (Partnered with Ontario Respiratory Care Society)

PI: Sunita Mathur
Title: The Effects of Electrical Muscle Stimulation (EMS) on Muscle Atrophy and Functional Outcomes in Critically Ill Patients: A pilot randomized controlled trial
Amount: \$24,931

PI: Darlene Reid
Title: Muscle oxygenation and hemodynamics during repetitive inspiratory loading or arm exercise in people with COPD
Amount: \$25,000

CTS/CLA TOTAL: \$448,750

The Canadian Thoracic Society (CTS) of The Lung Association is pleased to announce the successful applicants of the 2011-2012 fellowships and studentships.

Fellowships (2 year award)

Awardee: Jordan Guenette
Institution: Queen's University
Title: Mechanisms of Exertional Dyspnea and Exercise Intolerance in Smokers at Risk for COPD
Amount: \$90,000 (\$45,000/year) – year 1 of 2

Awardee: Mika Nonoyama
Institution: University of Toronto
Title: Understanding Long-Term Mechanical Ventilation in Canada: Patient and Family Experiences
Amount: \$90,000 (\$45,000/year) – year 1 of 2

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Awardee: Jeffrey Chen, Post-doctorate
Institution: Ecole Polytechnique Federale de Lausanne
Title: Control of ESX-1 virulence protein secretion by EspA, EspC, and EspD in Mycobacterium tuberculosis - molecular characterization and potential for anti-virulence drug development
Amount: \$90,000 (\$45,000/year) – year 2 of 2 – renewed for 2011-2012

Awardee: Muhammad Nabeel Ghayur, Post-doctorate
Institution: McMaster University
Title: Survey, pharmacology and toxicology of antiasthmatic medicinal plants traditionally used by Canadian Aboriginals
Amount: \$90,000 (\$45,000/year) – year 2 of 2 – renewed for 2011-2012

Awardee: Mathieu Morissette, Post-doctorate
Institution: McMaster University
Title: Characterization of self-reactive antibodies in COPD using phage display technology
Amount: \$90,000 (\$45,000/year) – year 2 of 2 – renewed for 2011-2012

Awardee: Elinor Simons, Post-doctorate
Institution: University of Toronto, Sick Kids
Title: The Longitudinal Impact of Environmental Exposures on Childhood Asthma and Allergy Development
Amount: \$90,000 (\$45,000/year) – year 2 of 2 – renewed for 2011-2012

Studentships (2 year award)

Awardee: Daphne Ling
Institution: McGill University
Title: Alternative approaches to TB diagnostics research: going beyond the test accuracy paradigm
Amount: \$42,000 (\$21,000/year) – year 1 of 2

Awardee: Maria Ospina
Institution: University of Alberta
Title: Epidemiology and health services utilization for chronic obstructive pulmonary disease (COPD) among Aboriginal Peoples in Alberta: Insights into Aboriginal respiratory health
Amount: \$42,000 (\$21,000/year) – year 1 of 2

Awardee: Del Leary, PhD
Institution: Dalhousie University
Title: Time Varying Lung Ventilation Dynamics and He3+ Imaging of the Human Lung in Asthma
Amount: \$42,000 (\$21,000/year) – year 2 of 2 – renewed for 2011-2012

Awardee: Toby McGovern, PhD
Institution: McGill University
Title: LTD4 induced airway remodeling through reactive oxygen species; potential benefit of antioxidant treatment in a rodent model.
Amount: \$42,000 (\$21,000/year) – year 2 of 2 – renewed for 2011-2012

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Awardee: Marie-Laure Specq, PhD
Institution: Université de Sherbrooke
Title: Effet d'une infection par le virus respiratoire syncytial sur le contrôle cardiorespiratoire et l'inflammation du tronc cérébral en période néonatale
Amount: \$42,000 (\$21,000/year) – year 2 of 2 – renewed for 2011-2012

CTS/CLA/GSK/CIHR Fellowship Award (2 years)

Awardee: Nico Marr
Institution: University of British Columbia
Title: Susceptibility to severe human respiratory syncytial virus infections during early childhood: the role of the innate immune system.
Amount: \$71,251 (CTS/CLA portion: \$11,250 year 1 and \$6,563 year 2) – year 1 of 2

Awardee: Philippe Pouliot
Institution: State University of Ghent (Belgium)
Title: ER stress as a two face factor in adaptive immune responses: Checkpoint in lymphocytes development and danger signal in dendritic cells
Amount: \$129,167 (CTS/CLA portion: \$12,500/year) – year 1 of 2

Awardee: Mélanie Bilodeau
Institution: Hospital for Sick Children (Toronto)
Title: Uncovering Molecular Pathways Regulating Lung Epithelial Differentiation
Amount: \$90,000 (CTS/CLA portion: \$22,500/year) – year 2 of 2 – renewed for 2011-2012

Awardee: Adrian West
Institution: Dalhousie University
Title: Epithelium mediated regulation of airway smooth muscle contractile phenotype and function in a tissue engineered airway wall
Amount: \$90,000 (CTS/CLA portion: \$22,500/year) – year 2 of 2 – renewed for 2011-2012

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3. National Grant Review 2011-2012 (\$1,259,326)

Under the leadership of Dr. Geoffrey Payne and Dr. Irvin Mayers, Chairs of the Clinical and Basic Science panels, members reviewed a total of 87 applications from Alberta, British Columbia and Ontario.

Alberta Lung Association (1 year awards) (\$180,000)

Name	Project Title	Amount
Dr. Morley Hollenberg	Allergen Proteases, Protease Receptor-2 and Airway Inflammation	\$30,000
Dr. Brent Winston	Potential use of metabolomics for CAP diagnosis and prognosis.	\$30,000
Dr. Chris Mody	Host Defense to <i>Cryptococcus Gattii</i> from Vancouver Island	\$30,000
Dr. Robert Newton	Understanding the superior efficacy of long-acting β_2 -adrenoceptor agonist (LABA) /inhaled corticosteroid (ICS) combinations	\$30,000
Dr. Richard Leigh	Do rhinovirus infections contribute to airway remodeling in asthma?	\$30,000
Dr. Dean Befus	Protective Effects of Mast Cell Epithelial Interactions in FluA Infection	\$30,000

Total: \$180,000

British Columbia Lung Association (\$324,000)

PI	Project Title	Amount	Funding Length
Dr. Chris Carlsten	Detection of the earliest lung lesions in COPD in three dimensional space using high resolution multiphoton and harmonic generation imaging.	\$54,000	(Over 2 Years)
Dr. Chris Carlsten	Does Diesel Exhaust Increase Airway Responsiveness Via Oxidative Stress?	\$54,000	(Over 2 Years)
Dr. Lindsay Eltis	Developing inhibitors against steroid-degrading enzymes of <i>Mycobacterium tuberculosis</i>	\$54,000	(Over 2 Years)
Dr. Richard Lester	The use of cell phones and text messaging to improve adherence to treatment of latent TB infection.	\$54,000	(Over 2 Years)
Dr. Christopher Ryerson	Serum biomarkers for the prediction of rapid progression in fibrotic interstitial lung disease	\$54,000	(Over 2 Years)
Dr. Charles Thompson	Screening for antibiotics that act synergistically with frontline TB drugs	\$54,000	(Over 2 Years)

Total: \$324,000

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Ontario Lung Association (1 year awards) (\$755,326)

PI	Project Title	Amount
Dr. Claudia Dos Santos	Role of ATF3 and DJ-1 in myeloid and non-myeloid cells during ALI	\$49,000
Dr. Anne Ellis	Epigenetic Biomarkers of Atopy and Asthma at Birth	\$37,751
Dr. Roger Goldstein	A Randomized Controlled Trial of Balance Training in Individuals with COPD	\$46,558
Dr. Christian Hendershot	Prazosin as a Novel Treatment for Smoking Cessation	\$42,500
Dr. Mark Inman	Ozone-Facilitated Allergic Sensitization and Response	\$43,163
Dr. Luke Janssen	Calcium-Signaling and Gene Expression in Human Pulmonary Fibroblasts	\$49,000
Dr. Diane Lougheed	Physiology of Cough in Asthma: Comparison of Sensory-mechanical Responses to Mannitol and High-dose Methacholine	\$49,000
Dr. Indra Narang	Opioid-Induced Respiratory Depression in Children	\$47,961
Dr. Helen Neighbour	Effect on Allergen Challenge on Inflammation Induced by Toll-Like Receptor Stimulation in a Nasal Model	\$45,240
Dr. Stacey Ritz	Effect of Metals Present in Particulate Air Pollution on the Development of Inhalation Tolerance in Mice	\$48,930
Dr. Jeremy Simpson	Mechanisms of Diaphragmatic Dysfunction Induced by Heart Failure with Myostatin Inhibition for Therapeutic Translation	\$49,000
Dr. Neil Sweezey	Regulation of Perinatal Lung Development by Glucocorticoid Responsive Signalling in Mesenchymal Cells In Vivo	\$48,972
Dr. Teresa To	Validation and Use of Evidence-based Asthma Care Performance Indicators in Ontario (VALUE-API)	\$48,721
Dr. Clodagh Ryan <i>Breathe New Life Award recipient 2011-2012</i>	Spatial and Temporal Patterns of Cerebrovascular response to hypercapnic stimuli in subjects with, and without, Obstructive Sleep Apnea	\$49,530
*Dr. Andrea Gershon <i>OLA Pfizer matching Awards in COPD</i>	Impact of Pulmonary Function Testing on Health Outcomes of Individuals with Chronic Obstructive Pulmonary Disease	\$50,000
* Dr. Roma Sehmi <i>OLA Pfizer matching Awards in PAH</i>	Role of Vascular Endothelial Progenitor Cells in Lung Angiogenesis	\$50,000

Total: \$755,326

Notes:

* OLA Pfizer matching Awards in COPD and in Pulmonary Arterial Hypertension, respectively.

¹ Total funding includes \$35,376.13 from Top It Up Funds