

ALLERGEN 2009 ANNUAL RESEARCH CONFERENCE
COMPLETED POSTER APPLICATIONS AND ABSTRACTS (N=25)
 [Programme A: 11; Programme B: 8; Programme C: 6]¹

Applicant #	AllerGen Trainee	Institution	AllerGen Researcher/ Supervisor	AllerGen Research Programme (and funded research project where applicable)	Abstract Title
1A	Allakhverdi, Zoulfia	Centre de recherche, Centre hospitalier de l'Université de Montréal (Hôpital Notre-Dame)	Dr. Guy JT Delespesse	Strategic Initiative overlapping Programmes A and B - 08BS12 : Cross-talk between airway epithelial and CD34 Hemopoietic Progenitor Cells Mediated by TSLP and IL-33 in Asthmatic and Normal Individuals	Effector Function in CD34 ⁺ Hemopoietic Progenitor Cells in Allergic Inflammation
1C	Arrandale, Victoria	University of Toronto	Dr. D. Linn Holness	Programme C – Public Health, Ethics, Policy and Society	The Toronto Skin Lung Research Program
2C	Ben-Shoshan, Moshe	McGill University Health Centre	Dr. Ann Clarke	Programme C – Public Health, Ethics, Policy and Society - 07C2: Surveying Canadians to assess the prevalence of common food allergies and attitudes towards food labeling and risk (SCAALAR)	The Prevalence of Sesame Allergy: A Cross-Canada Study
1B	Bruenahl, Christian	McMaster University	Dr. Petra Arck	Programme B – Diagnostics and Therapeutics – 07B3.1: Perinatal stress and programming of allergic responses	Mind-Body interactions during pregnancy: Prenatal stress enhances susceptibility of murine adult offspring toward airway inflammation dependent on gender

¹ **AllerGen Strategic Research Programme Foci:**

- Programme A - Gene-Environment Interactions
 - *Strategic Focus: Genetics and gene-environment interactions in allergy and asthma*
- Programme B – Diagnostics and Therapeutics
 - *Strategic Focus: Biomarkers, immune monitoring and drug discovery and development*
- Programme C – Public Health, Ethics, Policy and Society
 - *Strategic Focus: Allergic disease management and surveillance*

Cross-programmatic research teams in priority areas

Established cross-programmatic teams

- *The Canadian Healthy Infant Longitudinal Development (CHILD) Study*
- *Food Allergy and Anaphylaxis*

Emerging cross-programmatic teams

- *Mind-Body Interactions and Allergic Disease*
- *Work-related Allergy and Asthma*

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2B	Dawicki, Wojciech	Dalhousie University	Dr. Jean S. Marshall	Programme B – Diagnostics and Therapeutics – 07B1: Canadian Group on Food and Allergy Research (CanGoFAR)	Role of Mast Cell Activation in the Influx of Dendritic Cell Subsets into the Lymph Node
2A	Drudge, Christopher	University of Toronto	Dr. James Scott	Programme A – Gene-Environment Interactions – 07A1.7 : Environmental assessment of molecular genetic characterization of microbes in outdoor and indoor air and dust	Characterization of polymicrobial communities in indoor and outdoor air and dust using molecular genetic techniques
3C	Fenton, Nancy	McMaster University	Dr. Susan J. Elliott	Programme C – Public Health, Ethics, Policy and Society – 07C1: Evaluation of the implementation and effectiveness of statutory and regulatory school-based policies for anaphylaxis risk reduction	Constructing Risk: Understanding Anaphylaxis using Children's Illustrations
3A	Gomez, Pol	University of British Columbia	Dr. Scott J. Tebbutt	Programme A – Gene-Environment Interactions	Probing the interactions of <i>Aspergillus fumigatus</i> conidiospores and human airway epithelial cells by transcriptional profiling of both species
3B	Hackett, Tillie	University of British Columbia	Dr. Tony Bai	Programme B – Diagnostics and Therapeutics – 07B4.2 and 3.13 – Environmental impact on the epithelial immune barrier in asthma	Epithelial-Mesenchymal Transition occurs in undifferentiated basal Bronchial Epithelial Cells in Normal and Asthmatic subjects
4C	Harrington, Daniel	McMaster University	Dr. Susan J. Elliott	Programme C – Public Health, Ethics, Policy and Society - 07C2: Surveying Canadians to assess the prevalence of common food allergies and attitudes towards food labeling and risk (SCAAALAR)	Perceptions of risks associated with food allergy and anaphylaxis: Preliminary Results of a National Survey
5C	Henley, Heather	University of Manitoba	Dr. Anita Kozyrskyj	Programme C – Public Health, Ethics, Policy and Society - 07C6: Stress, asthma and atopy socio-spatial investigations (SAASI)	Contextual Pathways: An Examination of the Relationship between Neighbourhood Characteristics and Maternal Stress

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4B	Heron, Darcy	University of Manitoba	Dr. Anita Kozyrskyj	Programme B – Diagnostics and Therapeutics	Maternal distress, atopic dermatitis and skin infections in early life
4A	Keast, Colleen	Hospital for Sick Children, Toronto	Dr. Padmaja Subbarao	Programme A – Gene-Environment Interactions – 07A7 : Mini-Child	Non-invasive Assessment of Airways Inflammation in Pediatric Asthma
5A	Llop-Guevara, Alba	McMaster University	Dr. Manel Jordana	Programme A – Gene-Environment Interactions	GM-CSF Airway Overexpression increases the Susceptibility to develop House Dust Mite Induced Allergic Asthma
6C	Nyugen-Luu, Nha Uyen	McGill University Health Centre	Dr. Ann Clarke	Programme C – Public Health, Ethics, Policy and Society - 07C8: The Development, Implementation and Evaluation of Strategies to Promote the Well-Being of Children and Youth with Allergies and/or Asthma	School personnel knowledge regarding EpiPen [®] Administration in Québec
6A	North, Michelle	University of Toronto	Dr. Jeremy A. Scott and Dr. Frances S. Silverman	Programme A – Gene-Environment Interactions – 07A5 : Environmental Effects on Allergic Airway Disease	Inhibition of Arginase 1 attenuates Methacholine Hyperresponsiveness in Murine Models of Allergic Airways Inflammation
7A	Park, Julie	University of British Columbia	Dr. Denise Daley	Programme A – Gene-Environment Interactions	CD14 and Asthma : Environmental Factors that may alter the Genetic Effect on Childhood Asthma

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5B	Reece, Pia-Lauren	McMaster University	Dr. Judah A. Denburg	Programme B – Diagnostics and Therapeutics – Theme III: Mechanisms /Biomarkers	Cord Blood (CB) Progenitor Cell Toll-Like Receptor (TLR) Expression: An Alternate Innate Immune Pathway in the Development of Atopy
8A	Ruan, Jian	University of British Columbia	Dr. Scott J. Tebbutt	Programme A – Gene-Environment Interactions – 07A4 : Development of a microarray genotyping chip for clinical trials	Highly robust SNP genotyping using arrayed primer extension
6B	Singhera, Gurpreet	University of British Columbia	Dr. Tony Bai	Programme B – Diagnostics and Therapeutics – 06B4.1: Environmental Impact on the epithelial immune barrier in asthma	IL-13 signaling through the IL-13 receptor $\alpha 2$ mediates airway epithelial wound repair
9A	Taplin, Chris	University of British Columbia	Dr. Peter D. Paré	Programme A – Gene-Environment Interactions	Epigenetic profiling of bronchial epithelial cells
7B	Tunis, Matthew	Dalhousie University	Dr. Jean S. Marshall	Programme B – Diagnostics and Therapeutics – 07B1: Canadian Group on Food and Allergy Research (CanGoFAR)	Does Ig-E-mediated mast cell activation reduce oral tolerance to food allergens?
10A	Urch, Bruce	University of Toronto	Dr. Paul Corey and Dr. Frances S. Silverman	Programme A – Gene-Environment Interactions – 05A6 : Allergic Asthma : Air Pollution and Allergen Interactions	Concentrated Ambient Fine Particles Induce an Interleukin-6 Inflammatory Response in Asthmatics and Non-Asthmatics
11A	Zamar, David	University of British Columbia	Dr. Denise Daley	Programme A – Gene-Environment Interactions – 07A2 : Develop and implement an allergen-gene environmental database resource	Introducing the Genomic Applications for Humanity (Genapha) Website and the Path Software for Exploring Pathway-Based Genetic Associations

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8B	Zavitz, Caleb CJ	McMaster University	Dr. Martin Stämpfli	Programme B – Diagnostics and Therapeutics – 06B4.3: Regulation of lung mucosal immune responses by heterologous exposure to multiple infectious and allergic agents	Pneumonia following heterologous pulmonary infection correlates with exacerbated inflammatory cytokines and reduced type-I interferon production