

## JAMES ALEXANDER SCOTT

### BIOGRAPHICAL INFORMATION

Date of birth: October 1, 1967  
Place of birth: Simcoe, Ontario, CANADA  
Citizenship: Canadian  
Marital status: Married  
Dependents: None

#### ***University address***

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Division of Occupational & Environmental Health,  
Dalla Lana School of Public Health, University of Toronto  
223 College Street  
Toronto, Ontario  
CANADA M5T 1R4

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<http://www.uamh.ca>

**EXPERTISE:** Bioaerosols, Biodeterioration, Biohazards, Filtration efficiency testing of masks & face coverings, Microbial taxonomy & ecology, Mushroom poisoning, Mycology, Occupational Health & Safety

### EDUCATION

PhD University of Toronto: 2001  
Dissertation: *Studies on Indoor Fungi*, 441 pp  
Co-Supervisors: David Malloch, Neil Straus  
Major Program: Mycology  
Minor Programs: Occupational Hygiene; Phycology

BSc University of Toronto: 1990  
Specialist Program: Phytopathology  
Major Program: Botany  
Minor Program: French Studies

#### ***Continuing education***

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1. Rapidly changing mycology – New facts and ideas to put you ahead of the reference lab. May 16, 2007, Toronto, ON, sponsored by the National Laboratory Training Network.
2. Identification of house dust and indoor particles. May 6–8, 2004, McCrone Research Institute, Chicago IL, USA.

#### ***Academic and professional certifications***

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PAACB Pan-American Aerobiology Certification Board: 2007–present based on successful completion of two-stage proctored examination (recertified 2010-05-04; 2019-04-12)

ARMCCM Canadian College of Medical Microbiologists: 2003–present

### ***Honours and awards***

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2021	ACS Nano Champion – Best paper of 2020
2020	Lila Albin IEQ Paper Award – Best indoor environmental quality paper of 2019 (AIHA)
2014	Bruce Squires Award – Research paper with greatest potential to influence practice (CMAJ)
2006	Robin Badgley Award for Teaching Excellence
1998–1999	University of Toronto Open Fellowship
1996–1998	NSERC Postgraduate Fellowship (Doctoral)
1996	Wintercorbyn Award for Research in Botany Applied to Medicine
1995–1997	Lillian Elfeda Darker Award
1993–1994	University of Toronto Open Fellowship
1992	Canadian Society for Medical Mycology – Best Student Paper Award

### **APPOINTMENTS AND EMPLOYMENT**

2021–pres	Vice President, Mycology Development, PsiloTec Health Solutions Inc., Edmonton, Alberta
2020–pres	Inaugural Member, Institute of Pandemics, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario
2020–pres	Professor (Non-budgetary cross-appointment), Department of Laboratory Medicine and Pathobiology, Faculty of Medicine, University of Toronto, Toronto, Ontario
2018–pres	Director, Gage Laboratories and Aerosol Testing Facility, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario
2016–pres	Professor (Primary appointment), Division of Occupational and Environmental Health, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario
2015–pres	Director, UAMH Centre for Global Microfungal Biodiversity, Dalla Lana School of Public Health, University of Toronto / Gage Research Institute, Toronto, Ontario
2013–pres	Head, Division of Occupational and Environmental Health, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario
2013–2018	PhD Program Director, Division of Occupational and Environmental Health, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario
2009–2016	Associate Professor (Primary appointment), Division of Occupational and Environmental Health, Dalla Lana School of Public Health, University of Toronto, Toronto, Ontario (Tenure awarded July 2009)
2009–pres	Full Member, School of Graduate Studies (Graduate Department of Public Health Sciences), University of Toronto, Toronto, Ontario
2008–2017	Scientist (Cross-appointed), The Li Ka Shing Knowledge Institute, St. Michael's Hospital, Toronto, Ontario
2003–pres	Cross-appointment, Division of Clinical Pharmacology and Toxicology, Department of Medicine, Faculty of Medicine, University of Toronto, Toronto, Ontario
2003–2006	Cross-appointment, Botany Department, University of Toronto, Toronto, Ontario (appt ended when department was dissolved)

2002–2009	Associate Member, School of Graduate Studies (Graduate Department of Public Health Sciences), University of Toronto, Toronto, Ontario
2002–2009	Assistant Professor (Primary appointment), Division of Occupational and Environmental Health, Dalla Lana School of Public Health (formerly Department of Public Health Sciences, Faculty of Medicine), University of Toronto, Toronto, Ontario
2001–pres	Medical Mycology Consultant, Dynacare Medical Laboratories Ltd., Brampton, Ontario
1996–pres	Owner, Sporometrics, Toronto, Ontario
1993–2000	Teaching Assistant, Botany Dept, University of Toronto, Toronto, Ontario
1990–1993	Laboratory Technician (Mycology), Botany Dept, University of Toronto, Toronto, Ontario
1989–1990	Laboratory Technician, Medical Mycology, Daniel Medical Laboratories Inc., Toronto, Ontario
1989	Research Assistant, Mushroom Research Group, Horticultural Research Institute of Ontario, Ontario Ministry of Agriculture and Food, Vineland, Ontario
1987–1988	Research Assistant, Weed Science and Plant Pathology, Agriculture and Agri-Food Canada, Delhi, Ontario

#### ***Current memberships in academic and professional societies***

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2001–	American Biological Safety Association
1998–	American Industrial Hygiene Association
2010–	American Public Health Association
1996–	American Society for Microbiology
2003–	British Mycological Society
2003–	Canadian College of Microbiologists
1992–	Canadian Society for Medical Mycology
2012–	Entomological Society of America
2007–	International Aerobiology Association
1990–	International Society for Human and Animal Mycology
1996–	International Society for Indoor Air Quality and Climate
1990–	Medical Mycological Society of the Americas
1987–	Mycological Society of America
2006–	Mycological Society of Japan
2006–	Occupational Hygiene Association of Ontario
2005–	Pan-American Aerobiology Association
2008–	Society for General Microbiology

#### ***Memberships on internal and university committees***

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2019	Hiring Committee Member (8 others), 3 Assistant Professor positions, Dalla Lana School of Public Health, University of Toronto
2019	Hiring Committee Member (6 others), Associate Professor, Interdisciplinary Centre for Health & Society, University of Toronto (Scarborough Campus)
2014–2018	Decanal Promotions Committee, Dalla Lana School of Public Health, University of Toronto
2018	Hiring Committee Member (9 others), Professor and Division Head, Division of Occupational Medicine, Department of Medicine, University of Toronto

2018	Hiring Committee Member (9 others), Equity, Diversity and Inclusion Lead, Dalla Lana School of Public Health, University of Toronto
2014	Hiring Committee Chair (5 others), Assistant/ Associate Professor, Division of Occupational and Environmental Health, Dalla Lana School of Public Health, University of Toronto
2009–pres	Executive Committee, Division of Occupational & Environmental Health, Dalla Lana School of Public Health, University of Toronto
2009–2016	Executive Council, Centre for Research Expertise in Occupational Disease (CREOD), University of Toronto & St. Michael's Hospital, Toronto
2009–2016	Program Lead, Biological Contaminants Research Program, Centre for Research Expertise in Occupational Disease (CREOD), University of Toronto & St. Michael's Hospital, Toronto
2007–2012	Committee Member (6 others), Occupational Medicine Subspecialty Committee Dalla Lana School of Public Health
2007	Hiring Committee Member (3 others), Assistant Professor, Occupational & Environmental Health Contract-Limited Term Appointment (CLTA) Hiring Committee, Department of Public Health Sciences
2006	Hiring Committee Member (3 others), Biosafety Officer Hiring Committee, Office of Occupational & Environmental Health & Safety, Human Resources
2006–2008	Committee Member (6 others), Task Group on PHS Management Structure, Department of Public Health Sciences
2005–2006	Committee Member (6 others), Advisory Committee to the Chair, Department of Public Health Sciences
2005–2016	Committee Member and Local Biosafety Coordinator for Gage Building and other sites lacking a Local Biosafety Coordinator on the St. George Campus, Biosafety Committee, Office of Occupational & Environmental Health & Safety, Human Resources
2005–2006	Committee Member (3 others), Subcommittee on U of T Biosafety Manual Update, Office of Occupational & Environmental Health & Safety, Department of Human Resources
2004–2005	Taskforce Leader, Gage Building Remediation User Planning Taskforce, Gage Occupational & Environmental Health Unit

***Memberships and offices on external committees and associations***

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2015–pres	President and Chair, Board of Directors, The Gage Research Institute
2014–pres	Member, Advisory Committee on Human Pathogens and Toxins, Centre for Biosecurity, Public Health Agency of Canada
2013–2015	Member, Environmental Health Practice Parameter Work Group (Fungal Parameter), Joint Task Force on Practice Parameters comprising the American Academy of Allergy, Asthma & Immunology (AAAAI), the American College of Allergy, Asthma & Immunology (ACAAI), and the Joint Council of Allergy, Asthma & Immunology
2010–pres	Member (8 others), Board of Directors, AIHA Proficiency Analytical Testing LLC

2010–2012	President, Pan American Aerobiology Association
2009–2010	Advisor (15 others), Aeroallergens and Health, Group on Earth Observations, Geneva, Switzerland
2007–2009	Vice President, Pan American Aerobiology Association
2007–2008	Committee Member (~10 others), Organizing committee for the AllerGen Environmental Exposures Workshop, AllerGen NCE, Program A (Banff, AL, February 2008)
2005–pres	Committee Member (6 others), Working group on Institutional Biosafety, Biosafety & Environmental Microbiology Committee, AIHA
2005–pres	Committee Member (14 others), Working group on Environmental Microbiology, Biosafety & Environmental Microbiology Committee, AIHA
2005–2015	Committee Member (4 others), Taskforce on AIHA Field Guide for the Determination of Biological Contaminants in Environmental Samples. Biosafety & Environmental Microbiology Committee, AIHA
2005–2007	Committee Member (9 others), Taskforce on Avian Influenza Respirator Protection Planning, Biosafety & Environmental Microbiology Committee, American Industrial Hygiene Association (AIHA)
2004–pres	Committee Member (~30 others), Biosafety & Environmental Microbiology Committee, AIHA
2000–2008	Committee Member (3 others), Microbiology Committee/ Mycology Advisory Group, Quality Management Programs – Laboratory Services, Ontario Medical Association
2000–2003	Committee Member (6 others), Environmental Microbiology Laboratory Accreditation Committee (EMLAC) & Technical Advisory Panel (TAP), AIHA
2000–2002	Committee Member (6 others), Food Laboratory Accreditation Committee, AIHA
2002–2003	Chair, Environmental Health & Medical Mycology Committee, Mycological Society of America (MSA)
1999–2003	Committee Member, (~8 others), Environmental Health & Medical Mycology Committee, Mycological Society of America (MSA)

#### ***Editorial and reviewer activities***

2001–2006 Associate Editor (Environmental Mycology), *Mycopathologia*

- Peer Reviewer for various academic journals including: Analytical Methods; Applied & Environmental Microbiology; Botany; Canadian Journal of Microbiology; Environmental Science & Technology; Fungal Diversity; Fungal Genetics & Biology; Journal of Immunological Methods; Mycopathologia; Mycotaxon; Mycologia; Occupational & Environmental Health
- Grant reviewer for Agriculture & Agri-Food Canada; Austrian Science Foundation (ASF); British Medical Research Council (BMRC); Health Canada; MITACS; National Institutes of Health (NIH); National Geographic Foundation, Newfoundland and Labrador Centre for Applied Health Research; Ontario Workplace Safety & Insurance Board (WSIB); US Department of Agriculture - Agriculture Research Service (USDA-ARS)

## RESEARCH AWARDS

### Summary of award history

Year awarded	Funding source (*fund held at U of T; †subgrant at U of T)	Status on application	
		PI/ Co-PI	Co-I/ Collaborator
2020	Ontario Together Fund (MEDJCT)	\$1,122,000	
2020	Toronto COVID Action Initiative (TCAI)	\$495,910	
2016	CIHR		\$1,953,002
2015	CIHR†		\$538,497
2014	CIHR		\$241,032
2014	International Development Research Centre		\$2,500,000
2014	CIHR		\$1,022,194
2014	CIHR†		\$100,000
2014	Ontario Ministry of Labour		\$450,000
2014	US Department of Energy		USD \$50,000
2013	CIHR		\$100,000
2013	US Department of Energy		USD \$400,000
2012	Alfred P Sloan Foundation*	USD \$250,000	
2012	AllerGen NCE	\$54,000	
2012	Ontario Thoracic Society/ Lung Assoc		\$50,000
2010	CIHR	\$22,756	
2010	CIHR†	\$2,489,222	
2009	Chemical Mgmt Plan, Health Canada		\$607,948
	subgrant a)†	\$330,000	
	subgrant b)†	\$101,712	
2009	CIHR*	\$86,030	
2008	Ministry of Environment*	\$25,000	
2007	CIHR/ AllerGen NCE		\$11,810,440
	subgrant*	\$189,560	
2007	AllerGen NCE*	\$150,000	
2007	AllerGen NCE*		\$250,000
2007	AllerGen NCE		\$105,000
2007	WSIB-RAC*	\$391,000	
2006	Lung Assoc / OTS*		\$57,000
2005	US EPA		USD \$7,485,000
	subgrant a)*		USD \$515,000
2005	AllerGen NCE*		\$150,000
2005	AllerGen NCE*		\$369,000
2005	WSIB-RAC*	\$281,000	
2004	WSIB-RAC*		\$1,946,000
	subgrant a)*	\$10,000	
	subgrant b)*	\$10,000	
	subgrant c)*	\$10,000	
2004	CFI		\$6,980,000
2003	Faculty of Medicine*	\$10,000	
2002	Connaught Fund*	\$10,000	
	<b>TOTAL</b>	<b>\$6,038,190</b>	<b>\$37,734,113</b>

**Grants held**

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1. PIs: **Scott JA**  
Co-Is: Urch B, Bozek P, Arrandale V  
Agency: Ontario Ministry of Economic Development, Job Creation, and Trade (MEDJCT)  
Program: Ontario Together Fund (OTF)  
Title: Increasing Testing Capacity for Critical Respiratory PPE in Ontario for the COVID-19 Pandemic and Beyond  
Amount: \$ 1,122,000  
Status: held, 04/2020–03/2021
  
2. PIs: **Scott JA**  
Co-Is: Urch B, Bozek P, Gu F, Arrandale V, Cafazzo J, Siegel JA, Kirkham T, Brook J, Masood S, Evans G  
Agency: Connaught Fund  
Program: Toronto COVID Action Initiative (TCAI)  
Title: Improving and evaluating aerosol PPE and containment devices for COVID-19 virus  
Amount: \$ 495,910  
Status: held, 05/2020–04/2021
  
3. PIs: Subbarao P, Brook JR, De Souza RJ, Qingling D, Kozyrskyj AL, Lou W, Surette MG  
Co-Is: Anand SS, Azad M, Becker AB, Mandhane P, Obeidat M, Paré G, Pare PD, **Scott JA**, Sears MR, Smieja MJ, Turvey SE  
Agency: CIHR  
Program: Environments, Genes and Chronic Disease - Reproduction, Fetal and/or ECD  
Title: Gene and environment effects on lung health and risk for chronic respiratory disease, asthma & COPD  
Amount: \$ 1,953,002  
Status: held, 03/2016–02/2021
  
4. PI: Kozyrskyj AL  
Co-Is: Azad M, Becker AB, Chari RS, Dinu I, Field CJ, Guttman DS, Haqq AM, Mandhane P, **Scott JA**, Subbarao P, Turvey SE  
Agency: CIHR  
Program: Operating Grant  
Title: Cesarean section: impact on infant gut microbiota, childhood obesity and allergic disease  
Amount: \$ 538,497  
Status: held, 09/2015–08/2020
  
5. PIs: Mubareka S, Savory E  
Co-Is: Cutts T, Duchaine C, Levesque S, **Scott JA**, Steinhoff A, Verreault D  
Agency: CIHR  
Program: Collaborative Health Research Projects (NSERC partnered)  
Title: Characterization and mitigation of experimental and natural viral bioaerosols  
Amount: \$ 241,032  
Status: held, 03/2015–02/2018
  
6. PI: Arocha-Rosete Y  
Co-Is: Konan Konan JL, Diallo TH, **Scott JA**  
Agency: International Development Research Centre  
Program: Canadian International Food Security Research Fund  
Title: Fighting lethal disease for coconut farmers  
Amount: \$2,500,000  
Status: held, 11/2014–10/2016

## Grants held

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7. PI: Sears M, Brook JR, Subbarao PJ, Anand SS  
Co-Is: Allen R, Becker A, Beyene J, Kozyrskyj AL, Lou W, Mandhane P, Paré P, Sanford A, **Scott JA**, Takaro T, Turvey SE  
Agency: CIHR  
Program: Operating Grant  
Title: Early Life Determinants of Asthma  
Amount: \$1,022,194  
Status: held, 06/2014–05/2019
8. PIs: Kozyrskyj AL  
Co-Is: Azad M, Becker AB, Chari RS, Dinu I, Field CJ, Guttman DS, Haqq AM, Mandhane P, **Scott JA**, Subbarao P, Turvey SE  
Agency: CIHR  
Program: Operating Grant – PA: Existing and Emerging Threats & Chronic Disease  
Title: Cesarean section: impact on infant gut microbiota, childhood obesity and allergic disease  
Amount: \$ 100,000  
Status: completed, 07/2014–06/2015
9. PI: Mubareka S  
Co-Is: McGeer A, Gubbay J, Copes R, **Scott JA**  
Agency: Ontario Ministry of Labour  
Program: Research Opportunities Program  
Title: Healthcare worker exposure to viral bioaerosols  
Amount: \$450,000  
Status: held, 10/2014–09/2019
10. PI: Woodhams D  
Co-Is: Knight R, **Scott JA**  
Agency: US Department of Energy  
Program: Earth Microbiome Project  
Title: Bacterial communities in mosquitoes from Ontario  
Amount: \$50,000 US  
Status: completed, 02/2014–01/2015
11. PI: Sears MJ, Anand SS, Brook JR, Subbarao P  
Co-Is: Allen R, Becker A, Beyene J, Kozyrskyj AL, Lou W, Mandhane P, Paré P, Sanford A, **Scott JA**, Takaro T, Turvey SE  
Agency: CIHR  
Program: Operating Grant  
Title: Early Life Determinants of Asthma  
Amount: \$ 100,000  
Status: completed, 03/2014–02/2015
12. PI: Goodwin S  
Co-Is: Bluhm B, Kema GHJ, Turgeon G, Harris S, **Scott JA**  
Agency: US Department of Energy/ Joint Genome Institute  
Program: Community Sequencing Program/ Environmental Molecular Sciences Laboratory  
Title: Stress responses of fungal saprobes and plant pathogens of the Dothideomycetes  
Amount: \$400,000 US  
Status: held, 10/2013–09/2016



**Grants held**

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13. PI: **Scott JA**  
Co-Is: Savory E, Summerbell RC  
Agency: Alfred P Sloan Foundation  
Program: Microbiology of the Built Environment  
Title: Improved methods for biodeterioration resistance testing of building materials  
Amount: \$ 250,000 USD  
Status: held, 10/2012–12/2016
14. PI: **Scott JA**  
Co-Is: Brook JR, Takaro TK, Diamond M, Evans G.  
Agency: AllerGen NCE  
Program: Gene x Environment  
Title: Better Exposure Avoidance Measures (BEAM), subproject 3  
Amount: \$54,000  
Status: completed, 07/2012–03/2016
15. PI(s): Mubareka S, Savory E  
Co-I(s): Siu A, Verollet R, Carvalho E, **Scott JA**  
Agency: The Lung Association/ Ontario Thoracic Society  
Program: Operating Grant  
Title: Characterization of influenza virus-laden infectious bioaerosols  
Amount: \$50,000  
Status: completed, 12/2012–11/2013
16. PIs: Kozyrskij AL, **Scott JA**  
Co-I(s): Becker AB, Danska JS, Guttman DS  
Agency: CIHR  
Program: Planning Grants - Priority Announcement: Infection and Immunity  
Title: Harmonizing methods for studying the infant gut: An international effort  
Amount: \$ 22,756  
Status: completed, 09/2010–08/2011
17. PIs: Kozyrskij AL, **Scott JA**  
Co-PI(s): Becker AB, Guttman DS, Hayglass KT, Mandhane P  
Co-I(s): Befus AD, Chari RS, Field CJ, Klassen TP, Moqbel R, Turvey SE  
Agency: CIHR  
Program: Emerging Team Grant: Canadian Microbiome Initiative  
Title: Synergy in Microbiota Research (SyMBIOTA)  
Amount: \$2,489,222  
Status: completed, 09/2010–08/2015
18. Co-PIs: Wheeler A, Brook J  
Co-I(s): Allan R, Brauer M, Kollmann T, Lanphear B, **Scott JA**, Takaro T  
Agency: Health Canada  
Program: Chemicals Management Plan  
Title: An assessment of long-term indoor residential pollution exposures among Canadian children  
Amount: \$ 1,039,660 (subgrants not deducted)  
Status: completed, 05/2009–03/2011
- Subgrant a)  
PI: **Scott JA**  
Co-I(s): —

**Grants held**

- Title: Improved tools for assessing long-term indoor and outdoor exposures in epidemiological studies of allergy and asthma  
Amount: \$ 101,712  
Status: completed, 05/2009–03/2011
- Subgrant b)  
PI: **Scott JA**  
Co-I(s): —  
Title: Environmental measures for CHILD cohort  
Amount: \$ 330,000  
Status: completed, 09/2009–03/2011
19. PI: Kozyrskyj AL, **Scott JA**  
Co-I(s): Becker AB, Befus AD, Mandhane P  
Agency: CIHR  
Program: Catalyst Grant: Human Microbiome  
Title: The impact of antibiotics on intestinal microbiota of infants  
Amount: \$ 86,030  
Status: completed, 03/2009–02/2010
20. PI: **Scott JA**  
Co-I(s): Silverman F, Summerbell RC  
Agency: Ontario Ministry of the Environment  
Program: Best in Science  
Title: Investigation of the feasibility of using polymerase chain reaction (PCR) for source tracking of aerosols  
Amount: \$ 25,000  
Status: completed, 02/2008–10/2008
21. PI: Sears M, Subbarao PJ  
Co-I(s): Becker A, Befus D, Brauer M, Chen E, Cherry N, Cyr M, Dales R, Denburg J, Elliot S, Grasseman H, HayGlass K, Hudson T, Infante-Rivard C, Kozyrskyj AL, Mandhane P, Moqbel R, Paré P, Ramsay C, Ratjen F, **Scott JA**, Scott JA, Silverman F, Takaro T, To T  
Agency: Institute of Human Development, Child and Youth Health, CIHR & AllerGen NCE  
Program: Indoor Air Exposures, Genes, and Gene-Environment Interactions in the Etiology of Asthma and Allergy in Early Childhood - Operating Grant  
Title: Canadian Healthy Infant Longitudinal Development (CHILD) Study  
Amount: \$ 12,000,000 (subgrant not deducted)  
Status: completed, 10/2007–09/2013
- Subgrant a)  
PI: **Scott JA**  
Co-I(s): —  
Title: CHILD Environmental Measures Laboratory  
Amount: \$ 189,560  
Status: completed, 07/2008–03/2011
22. PI: **Scott JA**  
Co-I(s): Nakatsu C, Gold D, Silverman F, Brook JR, Scott JA, Seifert KA, Sears M, Summerbell RC, Dell S, Takaro TK, Untereiner WA  
Agency: AllerGen NCE  
Program: Programme A: Genes and Environment  
Title: Molecular genetic characterization of microbes in outdoor and indoor air and dust  
Amount: \$ 150,000

**Grants held**

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- Status: completed, 07/2007–06/2009
23. Co-PIs: Scott JA, Silverman F  
Co-I(s): Alexis N, Boulet L-P, Brook J, Denburg J, Dorscheid D, Gold D, Inman M, McNagny K, Palaniyar N, Ritz SA, **Scott JA**, Takaro TK, van Eeden S, Zamel N  
Agency: AllerGen NCE  
Program: Programme A: Genes and Environment  
Title: Environmental effects on allergic airways disease  
Amount: \$ 250,000  
Status: completed, 07/2007–06/2009
24. PI: Takaro TK  
Co-I(s): Allen R, Brauer M, Brooks J, **Scott JA**, Silverman F, Subbarao P  
Agency: AllerGen NCE  
Program: Programme A: Genes and Environment  
Title: Mini-Canadian Healthy Infant Longitudinal Development (CHILD) Study – Assessment of Home Environments  
Amount: \$ 105,000  
Status: completed, 07/2007–06/2009
25. PI: **Scott JA**  
Co-I(s): Sass-Kortsak AM, Krajden S, McGeer A, Holness DL, Lantos G, Krajden M  
Agency: Workplace Safety & Insurance Board Research Advisory Council (WSIB-RAC)  
Program: Solutions for Workplace Change  
Title: Biophysical characteristics of influenza bioaerosols in health care institutions  
Amount: \$ 390,949  
Status: completed, 10/2007–09/2010
26. PI: Tarlo SM  
Co-I(s): **Scott JA**, Scott JA, Romaschin A, Liss G  
Agency: Canadian Lung Association/ Ontario Thoracic Society  
Program: Operating Grant  
Title: Use of a chemiluminescent assay for endotoxin to determine nasal exposure to inhaled occupational endotoxin  
Amount: \$ 56,650  
Status: completed, 12/2006–11/2008
27. PI: Koutrakis P  
Co-I(s): Silverman F, Gold D, Corey P, Brook J, **Scott JA**, Brook R, Kovach J, et al.  
Agency: U.S. Environmental Protection Agency, National Center for Environmental Research  
Program: STAR Grant (Science to Achieve Results)  
Title: Novel exposure scenarios to define the health effects of particle sources  
Amount: \$ 8,000,000 USD (subgrant not deducted)  
Status: completed, 10/2005 - 09/2010
- Subgrant a)  
PIs: Silverman F, Gold D  
Co-I(s): Corey P, Brook J, **Scott JA**, Brook R, Kovach J  
Agency: U.S. Environmental Protection Agency, National Center for Environmental Research (NCER) (Subgrant)  
Program: STAR Grant (Science to Achieve Results)

**Grants held**

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- Title: Assessing the cardiovascular toxicity of inhaled concentrated ambient fine, ultra-fine and coarse particles in humans  
Amount: \$ 515,000 USD  
Status: completed, 10/2005 - 09/2010
28. PI: Sears MR  
Co-I(s): Becker A, Befus D, Brauer M, Brook J, Chapman M, Chen E, Cherry N, Cyr M, Dales R, Davis P, Denburg J, Duncan J, Elliott S, Graseman H, Holness DL, Hudson T, Infante-Rivard C, Kozyrskyj A, Moqbel R, Paré P, Ratjen F, Sandford A, **Scott JA**, Scott JA, Silverman F, Subbarao P, Tebbutt S, To T  
Agency: AllerGen NCE  
Program: Theme 2, Development Grant  
Title: Planning a Canadian Longitudinal Birth Cohort Study of Asthma & Allergy in Childhood  
Amount: \$ 120,000  
Status: completed, 04/2005–03/2007
29. PI: Silverman F  
Co-I(s): van Eeden S, Denburg J, Brook JR, Tarlo S, Corey P, Palaniyar N  
Partners: **Scott JA**, Scott JA, Liu L, Evans G, Koutrakis P  
Agency: AllerGen NCE  
Program: Operating Grant  
Title: Allergic asthma: Air pollution and allergen interactions  
Amount: \$ 369,000  
Status: completed, 04/2005–03/2007
30. PI: **Scott JA**  
Co-I(s): Purdham J, Verma DK, Krajden S  
Agency: Workplace Safety & Insurance Board Research Advisory Council (WSIB-RAC)  
Program: Solutions for Workplace Change  
Title: Characterization of microbial contaminants in metalworking fluids  
Amount: \$ 281,142  
Status: completed, 03/2005–06/2009
31. PI: Holness DL  
Co-I(s): Corey P, House R, Liss G, Purdham J, Sass-Kortsak AM, **Scott JA**, Silverman F, Tarlo SM, Verma DK  
Partners: Abel S, Eakin J, Faughnan M, Hargreave F, Hosein R, Kerr M, Lou W, Loughheed D, Pratt M, Skotnicki-Grant S, Switzer-McIntyre S  
Agency: Workplace Safety & Insurance Board Research Advisory Council (WSIB-RAC)  
Program: Centres of Research Expertise  
Title: Centre for Research Expertise in Occupational Disease  
Amount: \$ 1,976,000 (subgrants not deducted)  
Status: completed, 12/2004–11/2009
- Subgrant a)  
PI: **Scott JA**  
Co-I(s): Ewaze JO, McKeever P  
Title: The home as a healthcare workplace  
Amount: \$ 10,000  
Status: completed, 05/2005–12/2007
- Subgrant b)  
PI: **Scott JA**

### **Grants held**

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- Co-I(s): Ewaze JO, Kraiden S  
Title: Development of an exposure assessment tool for viral bioaerosol  
Amount: \$ 10,000  
Status: completed, 05/2005–04/2006
- Subgrant c)  
PI: **Scott JA**  
Co-I(s): Sass-Kortsak AM  
Title: Comparative field assessment of fungal bioaerosol samplers  
Amount: \$ 10,000  
Status: completed, 05/2005–04/2006
32. PI: Bartlett FM  
Co-I(s): El Damatty A, Galsworthy J, Hong H, Inculet D, Kopp G, Rosowsky D, Savory E, **Scott JA**, Surry D, Vickery P  
Agency: Canadian Foundation for Innovation (CFI) & Ontario Innovation Trust (OIT)  
Program: Innovation Fund  
Title: The three little pigs project: Testing full-scale houses and light-frame buildings to destruction using realistic, extreme environmental loads  
Amount: \$ 7,000,000  
Status: completed, 2004–2007
33. PI: **Scott JA**  
Agency: University of Toronto  
Program: Faculty of Medicine, Dean's Fund New Staff Competition  
Title: Ecology of fungi in the built environment  
Amount: \$ 10,000  
Status: completed, 2003–2005
34. PI: **Scott JA**  
Agency: Connaught Fund  
Program: Start-up Grant  
Title: Mycology of the indoor environment  
Amount: \$ 10,000  
Status: completed, 2002–2005

### **RESEARCH CONTRIBUTIONS**

#### ***Refereed articles (published/ accepted/ in press)***

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1. Christie-Holmes N, Tyli R, Budyłowski P, Guvenc F, Weiner A, Poon B, Speck M, Naugler S, Rainville A, Ghalami A, McCaw S, Hayes S, Mubareka S, Gray-Owen SD, Rotstein OD, Kandel RA, **Scott JA**. 2021. Vapourized hydrogen peroxide decontamination in a hospital setting inactivates SARS-CoV-2 and HCoV-229E without compromising filtration efficiency of unexpired N95 respirators. *American Journal of Infection Control* (In Press). doi: 10.1016/j.ajic.2021.07.012.
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5. Navaranjan G, Diamond ML, Harris SA, Jantunen L, Bernstein S, **Scott JA**, Takaro TK, Dai R, Lefebvre DL, Becker AB, Mandhane PJ, Moraes TJ, Simons E, Turvey SE, Sears MR, Subbarao P, Brook JR. 2021. Early life exposure to phthalates and the development of childhood asthma among Canadian children. *Environmental Research* (in press). doi: 10.1016/j.envres.2021.110981.
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#### **Books**

1. Scott JA. 2005. Clean-up procedures for mold in houses, 2nd edition. Ottawa: Canada Mortgage and Housing Corporation Press, 90 pp. ISBN: 0-660-19227-6.

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#### **Consensus documents**

1. Workplaces and COVID-19: Occupational Health and Safety Considerations for Reopening and Operating During the Pandemic. 2020. Toronto: CSA Group. (Authors: Arrandale VH, Ahuja M, Mo S, Dama H, Delic L, Gol-Rasan F, Meng P; Advisory panel: **Scott JA**, Gagnon F, Farnood R, Vaillancourt H, Islic N)
2. The Role of the Industrial Hygienist in a Pandemic. 2006. AIHA Guideline 7. Fairfax, Virginia: AIHA Press. (Authors: Adams RC, Brandt MT, Carraway CJ, Chiarello L, Easton DN, Flesher JK, Fuller TP, Fung F, Gaydos NA, Lewis RD, O’Grady A, Sassone DM, **Scott JA**, Springston JP, Streifel AJ, Strode RD, Toy VM, Weekes DM, Williams PB, Zhuang Z)

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#### **Government reports**

1. Spilchuck V, Scott JA, Rummerbell RC, Benusic M, Kim JH, Shen C. 2019. Evidence Brief: Foraged Mushroom Consumption in Ontario. Public Health Ontario. 20 pp.
2. Summerbell RC, Scott JA. 2013. Testing methods for *Legionella* bacteria. Public Works & Government Services Canada: Ottawa. 28 pp.
3. Summerbell RC, Scott JA. 2007. Histoplasmosis, Blastomycosis and Cryptococcosis in Canada. Health Canada & Canada Mortgage and Housing Corporation, Government of Canada: Ottawa. 56 pp.
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#### **Non-refereed articles and reports**

1. Scott JA. Development of a mould biosensor. 2007. Canadian Property Management - BC/Alberta Edition, November 2007.

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#### **Electronic media**

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1. UAMH Global Centre for Microfungal Biodiversity Website [<http://www.uamh.ca>]

#### **Invited lectures and seminars**

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1. Scott JA. Update on the status of the UAMH Biobank. US Culture Collection Network Meeting, American Type Culture Collection, Manassas, Virginia, August 21–23, 2018.
2. Scott JA. A public health perspective on mushroom poisoning. Food Forum for Industry and Government in Southwestern Ontario (FFIGS) annual workshop. Ingersoll, Ontario, May 2, 2018.
3. Scott JA. Biology of the Whiskey Fungus. University of Tulsa, March 2017.
4. Scott JA. Indoor microbes and the future of indoor environmental assessment. Twentieth Annual Westford Symposium on Building Science. Westford, Massachusetts, August 1–3, 2016.
5. Scott JA. Rediscovering the whiskey fungus. Lockwood Lecture – Connecticut Agricultural Experimental Station. May 2016.
6. Scott JA. The role of the occupational hygienist in biosafety. Occupational Hygiene Association of Ontario Spring Symposium PDC, Toronto, ON, March 25, 2015.
7. Scott JA. An evolving architecture: the past, present and future of indoor microbiology. Keynote address, IAQA 15 – Annual Meeting and Indoor Air Expo, Las Vegas, NV, March 6, 2012.
8. Scott JA. Sharing the Angel's Share: How fungal extremophiles profit from alcoholic vapours lost during whiskey aging. Department of Microbiology, University of Helsinki, January 19, 2012.
9. Scott JA. Environmental exposure assessment: current and emerging techniques. Occupational Hygiene Association of Ontario Spring Symposium PDC, Toronto, ON, March 22, 2011.
10. Scott JA. *Aspergillus* and *Penicillium* and a few things that look like them. Microscopy PDC. American Academy of Allergy, Asthma and Immunology Annual Conference, San Francisco, CA, March 18–23, 2011.
11. Scott JA, Flannigan B. Being at home with fungi: progress in understanding the impact of fungi in indoor environments on health. Royal Netherlands Academy of Sciences, Special Colloquium on Fungi and Health, Amsterdam, The Netherlands, November 13–14, 2008.
12. Scott JA. Career Transitioning. AllerGen NCE, Trainee Symposium, Victoria, BC, April 30–May 2, 2008.
13. Scott JA. Mushroom poisoning in Southwestern Ontario. Mycological Society of Toronto, Toronto, ON, February 18, 2008.

14. Scott JA. Biology of *Legionella*. American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Hamilton Chapter, Hamilton, Ontario, May 1, 2007.
15. Scott JA. Fungi and sick building syndrome. American Academy of Allergy Asthma and Immunology (AAAAI), 2007 Annual Meeting, San Diego, February 24, 2007 (invited seminar co-leader).
16. Scott JA. Developing a solid-state mould biosensor. Ontario Home Builders' Association Conference, Toronto, ON, January 11, 2007.
17. Scott JA, Untereiner WA, Ewaze JO, Wong B. Lessons learned from fungi associated with alcoholic beverage production. Symposium on Missing Taxa, International Mycological Congress 8, Cairns, Australia, August 25, 2006.
18. Scott JA. Technical considerations for viable and spore trap sampling. Workshop on indoor fungi, International Mycological Congress 8, Cairns, Australia, August 20, 2006.
19. Scott JA. Bioaerosols and pandemic influenza. Workplace Health & Safety Association Conference, Toronto, ON, June 5, 2006.
20. Scott JA. Round table on career opportunities in academic and industry research. AllerGen NCE, 1st Annual Trainee Symposium: Advancing Professional Excellence, Kingsbridge, ON, June 1, 2006.
21. Scott JA. Overview of the Centre for Research Expertise in Occupational Disease (CREOD). Industrial Accident Prevention Association (IAPA) Conference, Toronto, ON, May 2, 2006.
22. Scott JA. Current advancements in medical mycology. MacDonald College, McGill University, Montreal, PQ, March 14, 2006.
23. Scott JA. Mycoparasitism: When good mushrooms turn bad. Keynote Address, Mycological Society of Toronto, Annual Cain Foray, Muskoka, ON, September 17, 2005.
24. Scott JA. Indoor air quality. North American Mycological Association 2005 Conference. University of Wisconsin – LaCrosse, LaCrosse, WI, July 2005.
25. Scott JA. Mould in houses. Mitigating housing losses in extreme natural events – 2005. Workshop by University of Western Ontario/ Institute for Catastrophic Loss Reduction, Toronto, ON, February 2005.
26. Scott JA. Biological hazards in the workplace. Worker's Health & Safety Centre Conference, Toronto, ON, September 2005.
27. Scott JA. Mould contamination in the workplace. The Canadian Institute, Mould Conference, Toronto, ON, April 2005.
28. Scott JA. New mycological perspectives on dermatomycoses. Ottawa Regional Dermatology Conference, Ottawa, ON, April 2005.
29. Scott JA. An overview of the dermatophytes. Half Day Back, Dermatology Residency Program, University of Ottawa, Ottawa, ON, April 2005.
30. Scott JA. Research update on occupational microbiological hazards. Workplace Safety and Insurance Board – Research Advisory Council Research Conference, Toronto, ON, November 2004.

31. Scott JA. Mold biology. Harvard School of Public Health Symposium on the Impact of Mold on Human Health. Boston, MA, June 7–8, 2004.
32. Scott JA. Developments in the taxonomy of important indoor fungi. Expert Symposium on Indoor Mycology, Joint meeting of the Mycological Society of America and the British Mycological Society, Asilomar, CA, July 31, 2003.
33. Scott JA. Laboratory analysis of indoor fungi: new methods, old problems. Environmental Mold Symposium: State of the Science, State of the Art. American Industrial Hygiene Association Conference and Exposition (AIHce), Dallas, TX, May 10, 2003.
34. Scott JA. Fungi associated with moisture penetration in buildings. Advanced Fluid Mechanics Research Group, Boundary Layer Wind Tunnel, Univ of Western Ontario, London, ON, April 2003.
35. Scott JA. Moulds in the built environment current and emerging trends in hazard evaluation. Occupational Hygiene Association of Ontario, Toronto, ON, March 18, 2003.
36. Scott JA. Breaking the bad news: risk communication and indoor mould. Property Management Exposition and Trade Show (PM Expo), Toronto, ON, December 2002.
37. Scott JA. Health hazards of moulds – Prevention, Home Assessment and Remediation. Environmental Health Reviews – Mould in First Nation Housing, Health Canada, Toronto, ON, December 4, 2002.
38. Scott JA. Mould: Understanding the culprit. Symposium on Indoor Mould Litigation, The Canadian Institute, Toronto ON, November 2002.
39. Scott JA. Moulds: The newest and most common IAQ threat. BuildEx, Calgary, AL, October 8, 2002.
40. Scott JA. Indoor fungal contamination. Indoor Air Quality Forum, Property Management Exposition and Trade Show (PM Expo), Toronto, ON, November 29, 2001.
41. Scott JA. Fungal contamination in Buildings – Current and emerging trends. Occupational Hygiene Association of Ontario, Fall Meeting, Toronto, ON, October 2001.
42. Scott JA. Risk communication strategies for microbiological contamination. Ontario Association of School Business Officials, Occupational Health and Safety Professional Workshop, Whitby, ON, January 2000.
43. Scott JA. Molecular genetic characterization of variability in *Penicillium chrysogenum* from indoor environments. International Union of Microbiological Societies, Symposium on fungi and health, Sydney, Australia, August 1999.
44. Scott JA. Occupational exposure to fungal aerosol. Occupational Medicine Rounds, St. Michaels Hospital/ University of Toronto Department of Medicine, Toronto, ON, March 1999.
45. Scott JA. Dealing with mould contamination: Assessing health risks and determining remedial action. Occupational Hygiene Association of Ontario, Fall Meeting, Toronto, ON, October 1998.
46. Scott JA. Moulds: a biological perspective. Public Forum on the State of our Schools' Indoor Environments. Sponsored by Pollution Probe. Metro Hall, Toronto. October 1998.
47. Scott JA. A primer on fungal contamination in residential housing. Canada Mortgage and Housing, Field Advisors Workshop. Halifax, Nova Scotia, August 1998.

48. Scott JA. Moulds and indoor air quality. Ryerson Polytechnic University, Toronto, ON, February 1998, 1999, 2000.
49. Scott JA. Indoor microbial contamination. Property Management Exposition and Trade Show (PM Expo), Toronto, ON, December 1997.
50. Scott JA. Indoor fungi and health. Mycological Society of Toronto, June 1997.
51. Scott JA. Biological aspects of the indoor environment. Canada Mortgage and Housing Short Course for Residential Building Inspectors. Toronto ON, February 1997.
52. Scott JA. Microbial contamination in the building environment: origins, solutions, current issues. Property Management Exposition and Trade Show (PM Expo), December 1996.
53. Scott JA. Fungi, indoor air quality and human health. Department of Environmental Biology, University of Guelph, Guelph ON, March 1996.
54. Scott JA. Introduction to the fungal agents of human mycoses. Dermatology Residency Program, University of Toronto, Department of Medicine, Division of Dermatology, May 1994, 1995.

***Contributed abstracts, papers and posters***

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1. Navaranjan G, Diamond M, Subbarao P, Harris S, Jantunen L, Bernstein S, Scott JA, Takaro TK, Sears MR, Brook JR. 2019. Association between early life exposure to phthalates and the development of childhood asthma. *Environmental Epidemiology* 3, 282.
2. Drall KM, Tun HM, Morales-Lizcano N, Konya TB, Guttman DS, Field CJ, Mandal R, Wishart DS, Becker AB, Azad MB, Lefebvre DL, Mandhane PJ, Moraes TJ, Sears MR, Turvey SE, Subbarao P, Scott JS, Kozyrskyj AM. 2019. Clostridioides Difficile Colonization Is Differentially Associated with Gut Microbiota Composition in Breastfed versus Formula Fed Infants (OR01-02-19). *Current developments in nutrition* 3 (Supplement\_1), nzz040. OR01-02-19
3. Scott JA. The IAQ practitioner and the indoor microbiome. *Indoor Air 2016*, Ghent, Belgium, July 3–8, 2016.
4. Lepine C, Erdman L, Dai D, Brook JR, Takaro TK, Subbarao P, Turvey SE, Mandhane PJ, Becker AM, Lefebvre DL, Siegel J, Sears MR, Scott JA. Canadian Healthy Infant Longitudinal Development (CHILD) study: Plants and indoor markers of moisture in a prospective birth cohort. *Indoor Air 2016*, Ghent, Belgium, July 3–8, 2016.
5. Tun MH, Koleva P, Scott JA, Guttman DS, Sears MR, Mandhane PJ, Turvey SE, Subbarao P, Becker AB, Ratjen F, Kozyrskyj AL, and the CHILD Study Investigators. Impact of exposure to hospital microbial environment on infant's gut microbiota composition at 3-4 months. *Canadian Public Health Association Conference*, Toronto, June 13–16, 2016.
6. Takaro TK, Joffres Y, Shu H, Brook JR, Becker AB, McLean K, Wheeler AJ, Scott JA, Lefebvre DL, Sbihi H, Mandhane PJ, Subbarao P, Turvey SE, Sears MR. Early life indoor inflammatory exposures and asthma risk at three years of age in the canadian healthy infant longitudinal development (CHILD) birth cohort environmental, occupational and population health (EOPH). *American Thoracic Society annual meeting*, San Francisco, May 13–18, 2016.
7. Koleva P, Chari R, Kim J-S, Guttman D, Bridgman S, Wishart D, Haqq A, Sears MR, Becker AB, Mandhane PJ, Subbarao P, Turvey SE, CHILD Study Investigators, Scott JA, Kozyrskyj AM. Pregnancy overweight, birth weight and the gut microbiome. *Canadian National Perinatal Research Meeting*, Banff AB, February 13, 2016.

8. Scott JA, Gibas GF, Sigler L. Securing the future of the UAMH Centre for Global Microfungal Biodiversity. US Culture Collection Network 2015 Meeting, USDA NCGRP Fort Collins, CO, November 2015.
9. Sears MR, Kozyrskyj AL, Azad MB, McLean K, Takaro TK, Anand SS, Becker AB, Befus AD, Brook JR, HayGlass KT, Kollmann TR, Lou WYW, Mandhane PJ, Miller GE, Moraes TJ, Scott JA, Turvey SE, Duncan JD, Lefebvre DL and the CHILD Study Investigators. Exploring origins of asthma and allergy: early results from the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort study. Indoor Microbiome Workshop, Kuopio, Finland, September 8–10, 2015.
10. Azad MB, Konya T, Guttman DS, Field CJ, Chari RS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Biological embedding via the gut microbiota: impact of caesarean section delivery and breastfeeding on infant gut microbiota during the first year of life. Canadian Institute For Advanced Research (CIFAR) Cell to Society Symposium, Toronto ON, 2014.
11. Azad MB, Konya T, Guttman DS, Field CJ, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Breastfeeding, infant gut microbiota, and early childhood overweight. Experimental Biology meeting, 2014. (Poster presentation)
12. Azad MB, Konya T, Guttman DS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Evolution of the infant gut microbiome from 3 to 12 months of age: temporal changes and impact of antibiotic exposure. American Society Microbiology, Boston, 2014. Poster presentation)
13. Azad MB, Konya T, Guttman DS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Association of infant gut microbiota at 3 months and atopic sensitization at 1 year. American Thoracic Society annual meeting, San Diego, 2014. (Late-breaking abstract, accepted for poster presentation). Published in American Journal of Respiratory and Critical Care Medicine 189: A6610.
14. Takaro TK, McLean K, Brook JR, Allen R, Scott JA, Turvey S, Becker A, Mandhane P, Subbarao P, Sears MR. Environmental exposures and wheeze at three and twelve months of age in the Canadian Healthy Infant Longitudinal Development study (CHILD). International Society Environmental Epidemiology, 2014.
15. McLean K, Brook JR, Allen R, Scott JA, Turvey S, Becker A, Mandhane P, Subbarao P, Sears MR, Takaro TK. Environmental exposures and wheeze at three and twelve months of age in the Canadian Healthy Infant Longitudinal Development study. American Thoracic Society annual meeting, San Diego, 2014. Published in American Journal of Respiratory and Critical Care Medicine 189: A3848.
16. Subbarao P, Anand SS, Becker AB, Befus AD, Brook JR, HayGlass KT, Kollmann TR, Kozyrskyj AL, Lou WYW, Mandhane PJ, Miller GE, Moraes TJ, Sandford AJ, Scott JA, Takaro TK, Turvey SE, Duncan JD, Lefebvre DL, Sears MR and the CHILD study investigators. Exploring the origins of asthma: development, demographics and early results of the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort study. American Thoracic Society annual meeting, San Diego, 2014. Published in American Journal of Respiratory and Critical Care Medicine 189: A4590.
17. Konya T, Azad MB, Brook J, Takaro TK, Guttman D, Sears M, Becker A, Kozyrskyj A, Scott JA and the CHILD study investigators. Network analysis of the indoor dust microbiome in CHILD study homes in Winnipeg. American Society Microbiology, Boston, 2014. (Oral presentation)
18. Scott JA, Motavaze K, Summerbell RC, Savory E, Pogacar J. Improved biodeterioration resistance tests for building materials. Accepted for oral presentation at Indoor Air 2014, Hong Kong, July 7-12, 2014. (Oral presentation)
19. Scott JA, Koster BM, Ewaze JO, Wong B, Purdham J, Krajden S. Dipslide tests do not predict microbial exposure hazards to machining fluids. Poster presentation, Health & Safety Ontario, Partners in Prevention, 2014.

20. Sears MR, Subbarao P, Kozyrskyj AL, Azad MB, McLean K, Takaro TK, Anand SS, Becker AB, Befus AD, Brook JR, HayGlass KT, Kollmann TR, Lou WYW, Mandhane PJ, Miller GE, Moraes TJ, Scott JA, Turvey SE, Duncan JD, Lefebvre DL, and the CHILD study investigators. Exploring origins of asthma and allergy: early results from the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort study. European Academy Allergy Clinical Immunology annual meeting, Copenhagen, 2014. (Late-breaking abstract)
21. Azad MB, Konya T, Guttman DS, Field CJ, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Breastfeeding, infant gut microbiota, and early childhood overweight: implications for cardiovascular disease. CIHR-ICHR Young Investigators Forum, Edmonton, 2014.
22. Azad MB, Konya T, Guttman DS, Field CJ, Chari RS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Impact of caesarean section delivery and breastfeeding on infant gut microbiota at one year of age. Canadian Society Allergy Clinical Immunology, Toronto, 2013. Published in *Allergy, Asthma Clin Immunol* 2014; 10 (Suppl 1): A24.
23. Scott JA. Metagenomics and the future of aerobiology. Pan American Aerobiology Assoc annual meeting, Toronto, ON, June 2013.
24. Azad MB, Konya T, Guttman DS, Field CJ, Chari RS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Impact of caesarean section delivery and breastfeeding on infant gut microbiota during the first year of life. World Congress Developmental Origins of Health and Disease, Singapore, 2013.
25. Azad MB, Konya T, Koster B, Maughan H, Guttman DS, Field CJ, Chari RS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD Study investigators. The microflora hypothesis of allergic disease: infant gut microbiota profiles according to early-life environmental exposures. American Thoracic Society annual meeting, Philadelphia, 2013. Published in *Am J Respir Crit Care Med* 2013; 187: A2529.
26. Azad MB, Konya T, Maughan H, Guttman DS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. The gut microbiome and the hygiene hypothesis of allergic disease: impact of pets and siblings on the infant gut microbiome. Thomas L Petty Aspen Lung Conference, Aspen, CO, 2013. Published in *Ann Am Thor Soc* 2014; 11: S73.
27. Bridgman S, Azad MB, Hill AS, Konya T, Maughan H, Guttman DS, Sears MR, Becker AB, Survey S, Scott JA, Field CJ, Kozyrskyj AL, and the CHILD research team. Influence of early life exposures on gut immunity in Canadian infants at 4 months – pilot results from Synergy in Microbiota Research (SyMBIOTA) project. World Congress Developmental Origins of Health and Disease, Singapore, 2013. (late-breaking abstract).
28. McLean K, Lanphear B, Wheeler AJ, Brook JR, Scott JA, Allen R, Brauer M, Sears M, Subbarao P, Turvey S, Becker A, Mandhane P, Takaro T. Comparison of questionnaire responses with biomarkers of tobacco smoke exposure in a Canadian birth cohort at three months of age. Canadian Society Allergy Clinical Immunology, Toronto Allergy, 2013. Published in *Asthma Clin Immunol* 2014; 10 (Suppl 1): A60.
29. Shu H, Allen R, Bornehag C-G, Brauer M, Brook J, Lanphear B, Sathyanarayana S, Sears M, Zeng L, Takaro T, CHILD Environment Working Group. Phthalate exposures in a Canadian birth cohort at three months of age: the CHILD study. Canadian Society Allergy Clinical Immunology, Toronto, 2013. Published in *Allergy, Asthma Clin Immunol* 2014; 10 (Suppl 1): A56.
30. Salas SM, Azad MB, Konya T, Guttman DS, Becker AB, Sears MR, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Infant gut microbiota and the development of wheeze in early childhood. Canadian Society Allergy Clinical Immunology, Toronto, 2013. Published in *Allergy, Asthma Clin Immunol* 2014; 10 (Suppl 1): A35.

31. Persaud R, Azad MB, Konya T, Guttman DS, Chari RS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL, and the CHILD study investigators. Impact of perinatal antibiotic exposure on the infant gut microbiota at one year of age. Canadian Society Allergy Clinical Immunology, Toronto, 2013. Published in *Allergy, Asthma Clin Immunol* 2014; 10 (Suppl 1): A31.
32. Takaro T, Shu H, Allen R, Brook JR, McLean K, Scott JA, Brauer M, Wheeler AJ, Lefebvre D, Sathyanarayana S, Sears M. Early life exposure to phthalates and immune response at one year of age in the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort. ISEE/ISES/ISIAQ, Basel, Switzerland, August 19–23, 2013.
33. Behbod B, Urch B, Speck M, Scott JA, Liu L, Poon R, Coull B, Schwartz J, Koutrakis P, Silverman F, Gold DR. Endotoxin and concentrated coarse and fine ambient particles induce acute systemic inflammation in controlled human exposures. American Thoracic Society, Philadelphia PA, May 20–24, 2013.
34. Summerbell RC, White K, Saleh M, Scott JA. Significance of a *Legionella* testing outbreak. AIHce, Montreal, QC, May 18–23, 2013.
35. White K, Saleh M, Summerbell RC, Scott JA. Strategic communication plans for the occupational hygienist. AIHce, Montreal, QC, May 18–23, 2013.
36. Pakpour S, Scott JA, Turvey SE, Klironomos J. Environmental determinants of fungal community structure in indoor dust. Canadian Society for Ecology and Evolution, Kelowna, BC, May 12–15, 2013.
37. Scott JA, Konya T, Ewaze JO. 2012. Influence of sample mass on the measurement confidence of microbial cell wall materials in vacuum-collected floor dust. *Healthy Buildings* 4H.1: 1–4.
38. Konya T, Ewaze JO, Urch B, Shu H, Curran J, Speck M, Allen R, Brook J, Diamond M, Evans G, Takaro T, Wheeler A, Scott JA. 2012. Development and validation of the TefTex electrostatic wipe for indoor dust sampling. *Healthy Buildings* 4H.9: 1–5. doi: 10.13140/2.1.4057.4403.
39. Summerbell RC, Scott JA. Unlocking the *Acremonium* powerhouse with molecular phylogeny. World Congress of Microbes-2012, Guangzhou, China, July 20–August 1, 2012.
40. Azad MB, Hill AS, Konya T, Koster B, Maughan H, Guttman D, Sears MR, Becker AB, Turvey S, Field C, Scott JA, Kozyrskyj AL and the CHILD Study Investigators. Breastfeeding, intestinal IgA and *Clostridium difficile* colonization: implications for atopic disease? American Thoracic Society, San Francisco, CA, May 18–23, 2012. *Am J Respir Crit Care Med* 2012; 185: A5492.
41. Azad MB, Konya T, Koster B, Maughan H, Field CJ, Chari RS, Sears M, Becker AB, Guttman D, Scott JA, Kozyrskyj AJ. Infant gut microbiota and the hygiene hypothesis of allergic disease. Canadian Society of Allergy and Clinical Immunology, Toronto, ON, October 3–6, 2012.
42. Azad MB, Konya T, Koster B, Maughan H, Guttman D, Sears M, Becker AB, Scott JA, Kozyrskyj AJ. Breastfeeding protects against *Clostridium difficile* colonization by promoting lower relative abundance of Lachnospiraceae in gut microbiota. International Human Microbiome Congress, Paris, France, March 19–21, 2012.
43. Azad MB, Konya T, Koster B, Maughan H, Guttman D, Sears M, Becker AB, Scott JA, Kozyrskyj AJ. Exclusive breastfeeding protects against *Clostridium difficile* colonization by promoting lower relative abundance of *Lachnospiraceae* in gut microbiota: implications for atopic disease? [poster presentation] AllerGen NCE Innovation from Cell to Society<sup>7</sup>, Toronto, ON, February 6–8, 2012. [best poster, AllerGen Programme A].
44. Azad MB, Konya T, Koster B, Maughan H, Guttman D, Sears MR, Becker AB, Scott JA, Kozyrskyj AL and the CHILD Study investigators. Exclusive breastfeeding protects against *Clostridium difficile* colonization by



promoting lower relative abundance of Lachnospiraceae in gut microbiota. Human Microbiome International Conference, Paris, France, 2012.

45. Azad MB, Konya T, Koster K, Maughan H, Guttman DS, Field CJ, Chari RS, Sears MR, Becker AB, Scott JA, Kozyrskyj AL and the CHILD study investigators. 2012 Infant gut microbiota and the hygiene hypothesis of allergic disease. Canadian Society Allergy Clinical Immunology, Calgary. First place award. Allergy, Asthma Clin Immunol 2012; 8 (Suppl 1): A12.
46. Konya T, Koster B, Maughan H, Escobar M, Azad MB, Guttman D, Becker AB, Kozyrskyj AJ, Scott JA. House dust and gut bacteria. International Human Microbiome Congress, Paris, France, March 19–21, 2012. [subject of an article in New Scientist Magazine: Hamelzou J. 2012 A dusty home may influence a babies gut. New Scientist Magazine 25 April 2012, 2862.]
47. Konya T, Koster B, Maughan H, Escobar M, Azad MB, Guttman D, Becker AB, Kozyrskyj AJ, Scott JA. Is house dust a reservoir for gut bacteria? [poster presentation] AllerGen NCE Innovation from Cell to Society<sup>7</sup>, Toronto, ON, February 6–8, 2012.
48. McLean K, Brook J, Scott JA, Sears M, Allen R, Brauer M, Shu H, Subbarao P, Turvey S, Becker A, Mandhane P, Takaro T. An exploratory approach to “Total Exposure Assessment” in the CHILD Study; preliminary validation of an environmental exposure index. 7<sup>th</sup> AllerGen Annual Conference, Toronto, 2012.
49. Shu H, Zeng L, Allen R, Sears M, Brook J, Scott JA, Brauer M, Subbarao PJ, Becker A, Mandhane P, Turvey S, Takaro T. Potential sources of phthalate exposure in the CHILD study at three months of age. 7<sup>th</sup> AllerGen Annual Conference, Toronto, 2012.
50. Takaro T, Shu H, Allen R, Brook JR, McLean K, Scott JA, Brauer M, Wheeler AJ, Lefebvre D, Sears M. Phthalate exposure in early life and immune response at one year of age; data from the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort. Conference of ISEE, ISES and ISIAQ, Basel Switzerland, 2012.
51. Takaro TK, Stanojevic S, Shu H, Brook J, Allen R, Scott JA, McLean K, Subbarao P. Environmental exposures and exhaled nitric oxide at three months of age. American Thoracic Society annual meeting, 2012. Published in Am J Respir Crit Care Med 2012; 185: A3362.
52. Scott JA. Defining the sampling curves of microbial cell wall materials in vacuum-collected floor dust. Pan-American Aerobiology Association Symposium, San Diego, CA, August 7–8, 2011.
53. Scott JA. Biological contaminants in house dust. In Exposed! Novel and exciting tools for environmental exposure assessment. AllerGen NCE Innovation from Cell to Society<sup>6</sup>, Vancouver, BC, February 6–8, 2011.
54. Konya T, Koster B, Azad MB, Becker AB, Mandhane PJ, Befus DA, Kozyrskyj AL, Scott JA. Impact of Environmental Exposures on the Bacterial Community in the Human Infant Gut: a pilot project. [poster presentation] AllerGen NCE Innovation from Cell to Society<sup>6</sup>, Vancouver, BC, February 6–8, 2011.
55. Kozyrskyj AL, Scott JA, Azad MB, Guttman DS, Mandhane PJ, Becker AB, HayGlass KT and the SyMBIOTA team. Synergy in Microbiota Research (SyMBIOTA). [poster presentation] International Human Microbiome Congress, Vancouver, BC, March 8–11, 2011.
56. Kozyrskyj AL, Scott JA, Azad MB, Guttman DS, Mandane PJ, Becker AB, HayGlass KT and the SyMBIOTA Team. 2011 Synergy in Microbiota Research (SyMBIOTA). AllerGen NCE Innovation from Cell to Society<sup>6</sup>, Vancouver, BC, February 6–8, 2011.

57. Takaro T, Ryan A, Scott JA, Brauer M, Wheeler AJ, Sears M, Brook JR. Exposure assessment methods for the Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort. 21st Annual International Society of Exposure Science (ISES) Conference, Baltimore, 2011.
58. Behbod B, Sordillo JE, Hoffman EB, Datta S, Muilenberg ML, Scott JA, Chew GL, Gold DR. The relative contributions of infant outdoor & indoor fungi to fungi wheeze in the first year of life. Abstract #362 [poster presentation], American Academy of Allergy, Asthma & Immunology Annual Conference, San Francisco, CA. March 18–24, 2011.
59. Urch B, Speck M, Scott JA, Ewaze J, Brook JR, Gold DR, Behbod B, Silverman F. Associations between Inhaled Endotoxin/beta-(1,3)-D-glucan levels and airway/systemic neutrophils after controlled exposures to coarse and fine particles: effect of atopy on responses. American Association for Aerosol Research, 2010 Specialty Conference: Air Pollution and Health: Bridging the Gap from Sources to Health Outcomes, 2010, San Diego, CA, March 22–26, 2010.
60. Chaudhuri SR, Diamond M, Allen R, Brauer M, Brook JR, Curran J, Evans G, Jiang Z, Konya T, Mykhaylova N, Scott JA, Shu H, Speck M, Takaro T, Turvey S, Urch B, Wheeler A. How can we measure and predict indoor phthalate concentrations? measurements and multimedia modeling: CMP1-miniCHILD study and Toronto pilot homes. AllerGen NCE Innovation from Cell to Society<sup>5</sup>, Quebec City, QC, February 7–9, 2010.
61. Konya T, Ewaze J, Urch B, Shu H, Curran J, Speck M, Allen R, Brauer M, Brook JR, Diamond M, Evans G, Takaro T, Wheeler A, Scott JA. Validation of a new wipe method for the collection of indoor dust samples for the characterization of endotoxin and  $\beta$ -(1,3)-D-glucan. AllerGen NCE Innovation from Cell to Society<sup>5</sup>, Quebec City, QC, February 7–9, 2010.
62. Speck M, Ryan Allen R, Brauer M, Brook J, Chaudhuri S, Curran J, Diamond M, Evans G, Jiang Z, Konya T, Mykhaylova N, Scott JA, Shu H, Takaro T, Turvey S, Urch B, Wheeler A. Improved tools for assessing long-term indoor and outdoor exposures in epidemiologic studies of allergy and asthma – CMP-1. AllerGen NCE Innovation from Cell to Society<sup>5</sup>, Quebec City, QC, February 7–9, 2010.
63. Urch B, Speck M, Scott JA, Ewaze J, Brook JR, Gold D, Behbod B, Silverman F. Associations between inhaled endotoxin/ $\beta$ -(1,3)-D-glucan levels and airway/systemic neutrophils after controlled exposures to coarse and fine particles: effect of atopy on responses. AllerGen NCE Innovation from Cell to Society<sup>5</sup>, Quebec City, QC, February 7–9, 2010.
64. Drudge C, Al-Naama M, Konya T, Silverman F, Takaro TK, Scott JA. Characterization of polymicrobial communities in indoor and outdoor air and dust using molecular genetic techniques. [Poster presentation] AllerGen NCE Innovation from Cell to Society<sup>5</sup>, Ottawa, ON, February 15–18, 2009.
65. Saldanha R, Scott JA. Sampling duration and the recovery of culturable fungi in viable air sampling using the Andersen N6 and RCS Samplers. American Industrial Hygiene Conference and Exposition (AIHce), Toronto, ON, June 1–4, 2009.
66. Scott JA, Ewaze JO, Green BJ, Summerbell RC. Hyphal fragments on surfaces and in air, associated with low-level fugitive emissions of ethanol. Aerobiology 2008, Amherst, MA, June 16–22, 2008.
67. Summerbell RC, Scott JA. Blastomycosis, histoplasmosis and sylvan cryptococcosis: in Canada. Aerobiology 2008, Amherst, MA, June 16–22, 2008.
68. Saleh M, Lafayette S, Manno M, Summerbell RD, Sass-Kortsak A, Scott JA. 2008. Air volume and culturable air samplers [poster presentation]. Aerobiology 2008, Amherst, MA, June 16–22, 2008.

69. Seth R, Ribeiro M, Romaschin AD, Scott JA, Manno M, Scott JA, Liss GM, Tarlo SM. 2008. Use of a chemiluminescent assay to determine exposure to inhaled endotoxin. American Thoracic Society (ATS), Toronto, ON, May 16–21, 2008.
70. Scott JA. 2008. Alcoholism in fungi. Great Lakes-St. Lawrence Spring Workshop in Mycology, Toronto, ON, April 26–27, 2008.
71. Summerbell RC, Scott JA. Blastomycosis, histoplasmosis and tropical cryptococcosis: management around the Canadian home. Great Lakes-St. Lawrence Spring Workshop in Mycology, Toronto, ON, April 26–27, 2008.
72. Rodriguez P, Ronson K, Scott JA, Summerbell RC. 2008. *Penicillium bialowiezense* and *P. brevicompactum*: to each a niche of their own? [poster presentation]. Great Lakes-St. Lawrence Spring Workshop in Mycology, Toronto, ON, April 26–27, 2008.
73. Sauer A, Scott JA, Savory E, Sabarinathan J. 2008. Mould Spy– The design and evaluation of an optoelectronic mould sensor [poster presentation]. Proceedings of the Canadian Society for Mechanical Engineers Forum 2008, Ottawa, ON, June 5–8, 2008.
74. Saleh M, Lafayette S, Manno M, Summerbell RD, Sass-Kortsak A, Scott JA. 2008. Influence of air volume on biological recovery of culturable air samplers [poster presentation]. Health & Safety Canada 2008, Toronto, ON, April 21–23, 2008.
75. Ghanavatian H, McKeever P, Scott JA. Air quality in long-term care institutions and home care environments [poster presentation]. Health & Safety Canada 2008, Toronto, ON, April 21–23 2008.
76. Bernard K, Lévesque A, Seifert KA, Babcock C, Hayes J, Scott JA, Summerbell, RC, Hollis EJ. Creating National Centres for Secure Biological Resources for Canada. Proceedings of the 2007 CRTI Summer Symposium, June 11–15, 2007 Gatineau, Quebec.
77. Bartlett FM, Galsworthy JK, Henderson D, Hong HP, Iizumi E, Inculet DR, Kopp GA, Morrison MJ, Savory E, Sabarinathan J, Sauer A, Scott JA, St. Pierre LM, Surry D. The three little pigs project: A new test facility for full-scale small buildings. Twelfth International Conference on Wind Engineering (ICWE12), Cairns, Australia, March 2007.
78. Saldanha R, Manno M, Saleh M, Ewaze J, Scott JA. Comparative assessment of bioaerosol sampler performance [poster presentation]. Industrial Accident Prevention Association (IAPA) Conference, Toronto, ON, May 1–3, 2006.
79. Urch B, Brook J, Wasserstein D, Scott JA, Brook R, Rajagopalan S, Rivilis A, Corey P, Silverman F. Relative contribution of PM<sub>2.5</sub> chemical constituents to acute arterial vasoconstriction [poster presentation]. American Association for Aerosol Research and Particulate Matter: Atmospheric Sciences, Exposure and the Fourth Colloquium on PM and Human Health, Pittsburgh, PA, April 4, 2003.
80. Scott JA, Meyer W. Combined genotyping methods for indoor moulds [poster presentation]. 21st Fungal Genetics Conference, Pacific Grove, CA, March 2001.
81. Scott JA. Molecular taxonomy of some smooth-stiped taxa in *Penicillium* subgen. *Penicillium*. Great Lakes-St. Lawrence Mycology Workshop, Toronto, ON, February 2001.
82. Collett CW, Nathanson T, K Baer, Waddington J, Scott JA. The impact of HVAC system cleaning on levels of surface dust and viable fungi in ducts. Abstract # 195. Indoor Air '99, Edinburgh, Scotland, August 1999.

83. Scott JA. Toxic mould, public outrage. 19th Great Lakes-St. Lawrence Mycology Workshop, St. Catharines, ON, March 1998.
84. Scott JA, Rosenthal S, Summerbell RC, Kane J. First isolation of *Trichophyton fischeri* from the United States. 97th General Meeting of the American Society for Microbiology, Miami Beach, FL, May 18–22, 1997
85. Scott JA. Detection of fungal contamination in buildings using molecular techniques. 15th Great Lakes-St. Lawrence Mycology Workshop. Mississauga, ON, March 1994.
86. Kane J, Krajden S, Scott JA, Summerbell RC. Aspects of the Kane/Fischer system for the identification of dermatophytic fungi. Conjoint Meeting on Infectious Diseases. Winnipeg, MB, November 1995.
87. Scott JA. Fungal species assemblages in house dust and indoor air. 14th Great Lakes-St. Lawrence Mycology Workshop. Ottawa, ON, March 1994.
88. Scott JA, Malloch D, Gloer JB. A temperature-regulated sporangial dimorphism in *Pilobolus umbonatus* [poster presentation]. International Mycological Congress 5, Vancouver, BC, August 1994.
89. Whyte AC, Gloer JB, Scott JA, Malloch D. New bioactive metabolites from the coprophilous fungus *Cercophora* sp. International Research Congress on Natural Products. Halifax, NS, August 1994.
90. Krug JC, Scott JA. Ecology and taxonomy of the genus *Bombardioidea* (*Lasiosphaeriaceae*) [poster presentation]. Annual Conference of the Mycological Society of America. Atlanta, GA, June 1993.
91. Scott JA, Kane J, Summerbell RC, Diena BB. A systematic approach to the variation in the *Trichophyton mentagrophytes* species complex. Conjoint Meeting on Infectious Diseases. Toronto, ON, December 1992. (Best student oral presentation award from Janssen Pharmaceutica).
92. Scott JA. Benomyl resistance of *Trichoderma* spp. on synthetic shiitake mushroom logs. 11th Great Lakes-St. Lawrence Mycology Workshop. Quebec City, PQ, March 1991.
93. Kane J, Summerbell RC, Scott JA. Dermatophyte proteinases and keratinases: Activity in diagnostic media and skin. CACMID. Halifax, NS, November 1990.
94. Scott JA, Perumalla CJ, Patrick ZA. Suppression of growth and sporulation of *Trichoderma* on synthetic shiitake logs by bacteria. Joint meeting of the American Phytopathological Society and the Canadian Phytopathological Society. Grand Rapids, MI, August 1990.

#### ***Contributed symposia, colloquia and workshops***

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1. Convener, Pan-American Aerobiology Association annual meeting, Toronto, Ontario, June 2013.
2. Convener, Great-Lakes-St. Lawrence Spring Workshops in Mycology: Toronto, ON (April 26–27, 2008; May 2–3, 2009); Chaffey's Locks, ON (April 24–25, 2010).
3. Co-Convener, "Missing taxa", International Mycological Congress 8, Cairns, Australia, August 25, 2006.
4. Convener, Expert symposium on indoor fungi. Joint meeting of the Mycological Society of America and the British Mycological Society, Asilomar, CA, July 31, 2003.

#### ***Community outreach and support activities***

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2006– Scientific Advisor, Mycological Society of Toronto, Toronto, ON

- 2004–2009 Provincial Reference Laboratory for Clinical Mycology Proficiency Testing, Ontario Medical Association Quality Management Program – Laboratory Services
- 2003– Consultant Medical Mycologist, Hospital for Sick Children/ Ontario Poison Centre, Toronto, ON

### ***Press and editorial recognition***

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1. CBC Marketplace. Counterfeit N95 and KN95 respirators (April 2021)
2. CBC Marketplace. Consumer market face masks (November 2020)
3. Rogers A. 2014. *Proof: The science of booze*. Boston, Massachusetts: Houghton Mifflin Harcourt (PEN/E.O. Wilson Prize for Literary Science Writing – nominee for shortlist, 2015), my work was the subject of Chapter 5.
4. Daily Planet, Discovery Channel (Canada): a) Germs on cell phones, February 13, 2014  
b) Pets and microbes, April 30, 2013
5. New York Times, August 29, 2012. Ryzik M. Kentuckians take distilleries to court over black gunk.
6. Discover Magazine, May 2012. Greenwood V. Do gut microbes travel from person to person?
7. New Scientist Magazine issue 2862, April 25, 2012. Hamelzou J. A dusty home may influence a baby's gut.
8. Wired Magazine, June 2011 [feature article]. Rogers A. The angels' share. [Article won the 2011 Kavli Science Journalism Award in the magazine category].
9. Microbe Magazine 4: 104–105. [feature article] Dixon B. 2009. The mystery of the warehouse stains.
10. The Globe and Mail, Life Section, September 10, 2007 [feature article]. Roberts S. For the love of mould.

### **TEACHING**

#### ***Undergraduate courses***

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1. *BIO100Y Introductory Biology*  
Assistant Laboratory Coordinator/ Laboratory Demonstrator/Teaching Assistant: 1993, 1994
2. *BOT301H Introduction to the Fungi*  
Teaching Assistant: 1995–1999; Guest Lecturer – 2007 (2 hr), 2008 (2 hr)
3. *BOT404H The Biology of Moulds*  
Course Director and Sole Lecturer – 2005 (56 hr)  
Teaching Assistant : 1997, 1999
4. *BOT405H Medical and Veterinary Mycology*  
Guest Lecturer: 2006 (5 hr)
5. *BOT405H Parasitic and Mutualistic Fungi*  
Teaching Assistant: 1996, 1998, 2000
6. *HMB436H Medical and Veterinary Mycology*  
Guest Lecturer: 2008 (2 hr), 2009 (2 hr), 2010 (2 hr), 2012 (3 hr)  
Course Director: 2011 (20 hr), 2013 (14 hr), 2014 (20 hr), 2015 (20 hr), 2016 (20 hr), 2017 (24 hr), 2018 (24 hr), 2019 (24 hr)

7. *MBY444H Environmental Microbiology*  
Guest Lecturer: 2003 (2 hr)

#### **Graduate courses**

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1. *CHL5004H Introduction to Public Health Sciences*  
Lecturer on outdoor air pollution: 2006 (1 hr), 2007 (1 hr), 2009 (0.5 hr), 2013 (1 hr), 2015 (1 hr), 2020 (1 hr)  
Tutorial Leader: 2004 (6 hr)
2. *CHL5902H Advanced Occupational Hygiene*  
Lecturer – module on bioaerosols, assessment of hazards relating to microbes, sampling methods and interpretation, risk communication, remediation: 2000 (2 hr), 2001 (2 hr), 2002 (2 hr), 2003 (2 hr), 2004 (2 hr)
3. *CHL5904H Occupational Health and Safety – Legal and Social Concepts*  
Lecturer – module on biosafety and hospital infection control: 2005 (3 hr)
4. *CHL5910H Introductory Occupational Hygiene*  
Lecturer – modules on particulate contaminants, bioaerosols, sampling strategies and applications in non-industrial environments: 2002 (6 hr), 2003 (6 hr), 2004 (6 hr), 2017 (8 hr)
5. *CHL5911H Occupational and Environmental Hygiene II*  
Lecturer – module on investigation and remediation of mould contamination: 2005 (6 hr)  
Tutor – supervision of field exercises: 2010 (12 hr), 2013 (8 hr), 2014 (8 hr), 2015 (8 hr), 2016 (8 hr), 2018 (16 hr), 2019 (16 hr), 2020 (8 hr)
6. *CHL5413H Public Health Sanitation*  
Course Director – 2011 (18 hr), 2013 (18 hr), 2014 (21 hr), 2015 (20 hr), 2020 (144 hr)
7. *CHL5915H Control of Occupational Hazards*  
Lecturer – module on biological safety cabinets and laboratory ventilation: 2010 (1 hr), 2011 (1 hr)
8. *CHL5918H Biological Hazards in the Workplace and Community*  
Course Director: 2005 (36 hr), 2006 (36 hr), 2007 (36 hr), 2008 (24 hr), 2009 (27 hr), 2010 (27 hr), 2011 (36 hr), 2014 (36 hr), 2015 (36 hr), 2016 (36 hr), 2017 (36 hr), 2017 (36 hr), 2018 (36 hr), 2019 (36 hr), 2020 (36 hr), 2021 (216 hr)
9. *MSC4000H/ IES 4001Y Seminars on Environment and Health*  
Lecturer: 2003 (2 hr), 2008 (2 hr)
10. *THE500H Teaching in Higher Education*  
Discussant – New Faculty Round Table: 2003 (2 hr), 2004 (2 hr)

#### **Graduate directed reading courses**

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1. Cox, Ian  
CHL7001H Directed Reading – Paper decomposition, Supervisor, 2004 (~10 hr)
2. Chouljian, Tallar  
CHL7001H Directed Reading – Biological Hazards, Supervisor, 2013 (~10 hr)
3. Konya, Tedd  
CHL7001H Directed Reading – Public Health Microbiology, Supervisor, 2009 (~10 hr)
4. Lepine, Claire / Shaheed, Waleed  
CHL7001H Directed Reading – Biology of Moulds, 2017 (~16 hr)

5. Lovacev, Fanche  
CHL7001H Directed Reading – Infection Control, Supervisor, 2006 (~10 hr)
6. Saldanha, Rachel  
CHL7001H Directed Reading – Biosafety, Supervisor, 2006 (~10 hr)

#### ***Seminars and invited teaching lectures (elsewhere)***

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1. *MME9642 Building Systems Engineering, Western University*  
Invited Guest Lecturer: February 14, 2012; February 12, 2013, February 4, 2014, 2 contact hr, ~20 students
2. *OHS810 Occupational Health & Safety Seminars, Ryerson University*  
Invited Guest Lecturer : March 7, 2007, 3 contact hr, ~25 students
3. *ENH809 Seminars in Public Health & Safety, Ryerson University*  
Invited Guest Lecturer : March 21, 2007, 2 contact hr, ~40 students

#### ***Medical continuing education***

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1. *Rounds (Occupational Medicine), St. Michael's Hospital*  
September 23, 2020: SARS-CoV-2 Aerosol Generation and Behaviour (1 hr)
2. *PPE Reprocessing Webinar, Ontario Health*  
June 10, 2020: Filtration efficiency testing of filtering facepiece masks (1 hr)
3. *Half-Day Back (Clinical Pharmacology and Toxicology), Department of Medicine*  
October 18, 2018: Mushroom poisoning, field trip and laboratory exercise (8 hr)
4. *Occupational & Environmental Health Seminars, Dalla Lana School of Public Health / Public Health Ontario*  
October 13 2017: Mushroom poisoning in Ontario (1 hr)
5. *Rounds (Occupational Medicine), St. Michael's Hospital*  
January 29, 2014: Easy, high impact knowledge translation made easy: Wikipedia as a tool for outreach (1 hr)
6. *Medical Grand Rounds, University Health Network/ Toronto General Hospital*  
November 29, 2006: Near-fatal ingestion of *Amanita bisporigera* in Toronto (1 hr)
7. *Rounds (Infectious Disease Medicine), Sunnybrook Health Sciences Centre*  
October 18, 2006: Indoor moulds – What do we know about sources & hazards (1 hr)
8. *Rounds (Community Medicine), Department of Public Health Sciences*  
January 27, 2006: Unbidden houseguests (1 hr)
9. *Half-Day Back (Occupational Medicine Residency Program), St. Michael's Hospital*  
September 29, 2004: Deep tissue infections and occupational fungal exposure (2 hr)
10. *Rounds (Occupational Medicine), St. Michael's Hospital*  
December 10, 2003: Fungal contamination and indoor air quality (1 hr)
11. *Half-Day Back (Community Medicine Residency Program), Dept of Public Health Sciences*  
November 21, 2003: Indoor air quality (2 hr)
12. *Rounds (Clinical Pharmacology and Toxicology), Hospital for Sick Children*  
November 2003: A fatal toxicosis following ingestion of *Lepiota joserandi* in Toronto (1 hr)

13. *Rounds (Occupational Medicine)*, St. Michael's Hospital  
October 27, 2004: Occupational dermatophytosis (1 hr)
14. *Public Health Continuing Education Seminars*, Department of Public Health Sciences  
January 29 2003: Microbes in buildings: Origins, solutions and current issues (2 hr)

#### ***Courses and seminars offered elsewhere***

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1. Advanced fungal spore identification, 1/2 day Allied Health Professional Development Course, American Academy of Allergy, Asthma and Immunology, Conference, San Diego, February 2011; February 2014; February 2018.
2. Interpretation of mycological sampling data, Professional Development Course (PDC), Health & Safety Canada 2008, IAPA Conference and Trade Show Toronto ON, Co-instructor (with BJ Green & RC Summerbell), April 23, 2008
3. Molecular genetic methods for evaluating indoor fungal contaminants. Professional Development Course (PDC), "Evaluation and Control of Indoor Air Contaminants", American Industrial Hygiene Association (AIHA), 2007 Annual Meeting, Philadelphia PA, Co-instructor, May 2007.
4. Mycetismus: Case recognition and management, Ontario Poison Centre, Hospital for Sick Children, Toronto ON, 2 sessions, Instructor, May 2004
5. Advanced Fungal Identification, Three-day short course, McCrone Research Institute, Chicago IL, Course Instructor, September 2000, 2001

#### **ACADEMIC SUPERVISION**

##### ***Undergraduate supervision***

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1. *Agache, Vlad*  
Summer student research assistant, Supervisor, 2010
2. *Bodley, Max*  
Summer student research assistant, Supervisor, 2021
3. *Chiyu, Ian He*  
Summer student research assistant, Supervisor, 2010
4. *Erhardt, Catherine*  
*BOT460Y Independent Research Project – Bioaerosols associated with vermicomposting*, Supervisor, 2005–2006
5. *Desiana, Yunni*  
*BIO400Y Biology and Biotechnology Internship* (U of T Mississauga), Internship Supervisor, 2008–2009
6. *Dods, Sonja*  
Summer student research assistant, Supervisor, 2013
7. *Heifetz, Joy*  
Summer student research assistant, Supervisor, 2021
8. *Jeon, Henry*  
Research assistant, Supervisor, 2018–2019



9. *LaFayette, Shantelle*  
Summer student research assistant, Supervisor, 2005; *BIO400Y Biology and Biotechnology Internship* (U of T Mississauga), Internship Supervisor, 2006–2007
10. *Leung, Victoria*  
Summer student research assistant, Supervisor, 2009
11. *Nowrouzi-Kia, Benham*  
*NEW491H New College Independent Study Course – Mushroom poisoning in Ontario*, Supervisor, 2007
12. *Rodriguez, Patricia*  
*BIO400Y Biology and Biotechnology Internship* (U of T Mississauga), Internship Supervisor, 2007–2008
13. *Saleh, Michael*  
Summer student research assistant, Supervisor, 2005; *BOT460Y Independent Research Project – Keratinophilic fungi associated with egg casings of oviparous elasmobranchs in high-tide marine wrack*, Supervisor, 2005–2006
14. *Sauer, Anya*  
*ECE416 Independent Research Project – Development of a solid-state indoor mould biosensor*, University of Western Ontario (UWO), Dept of Electrical & Computer Engineering, Co-supervisor, 2005–2006
15. *Sexton, Danielle*  
Summer student research assistant, Supervisor, 2008, 2009
16. *White-Argumedo, Benjamin*  
Summer student research assistant, Supervisor, 2010, 2011
17. *Wolicki, Melanie*  
*BOT461H Independent Research Project – Fusarium spp. from clinical and environmental sources*, Supervisor, 2004–2005
18. *Zimmerman, Melanie*  
Summer student research assistant, Supervisor, 2008

#### ***Graduate supervision***

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1. *Rada, Diego*  
PhD, DLSPH-OEH, Supervisor, 2020–pres
2. *Behbod, Behrooz*  
PhD, Harvard School of Public Health, Supervisory Committee Advisor, 2009–2011
3. *Decter, Kate*  
PhD, Anthropology, Committee Member, 2015–pres
4. *Drudge, Christopher*  
MHSc DLSPH-OEH, Research, Supervisor, 2007–2009
5. *Ghanavatian, Negin*  
MHSc DLSPH-OEH, Research, Supervisor, 2005–2007
6. *Konya, Tedd*  
MPH, DLSPH-OEH, Supervisor, 2009–2012

7. *Lepine, Claire*  
MPH, DLSPH-OEH, Research, Supervisor, 2015–2017
8. *Isber, Karen*  
MHSc DLSPH-OEH, Practicum Supervisor, 2009
9. *Pakpour, Sepideh*  
PhD, Dept of Integrative Biology, UBC, Advisory Committee Member, 2012–2015
10. *Li, Ping*  
MASc, Mechanical Engineering, University of Western Ontario, Advisory Committee Member, 2009–2013
11. *Nichol, Kathryn*  
PhD Student, Institute for Medical Sciences, Advisory Committee Member, 2008–2010
12. *Saldanha, Rachel*  
MHSc DLSPH-OEH, Research, Supervisor, 2004–2006
13. *Saleh, Michael*  
MHSc DLSPH-OEH, Research, Supervisor, 2006–2008
14. *Shaheed, Waleed*  
MPH DLSPH-OEH, Research, Supervisor, 2016–2018
15. *Sauer, Anya*  
MASc, Electrical Engineering, University of Western Ontario, Advisory Committee Member, 2006–2008
16. *Tyli, Rachel*  
PhD, Laboratory Medicine and Pathobiology, 2021–present
17. *Wan, Yuchao*  
PhD, Earth Sciences, Committee Member, 2016–present
18. *Yim, King-Sin (Winfield)*  
MSc, Cell & Systems Biology, Co-Supervisor, 2018–present

#### ***Examination committees***

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1. Wan, Yuchao, PhD  
Affiliation: Department of Earth Sciences, University of Toronto  
Thesis title: Impacts of Household Characteristics, Activities and Building Characteristics on Indoor Concentrations of Semi-Volatile Organic Compounds  
Role: Examination Committee Member  
Date: August 12, 2020
2. Yaw Adjei-Kyereme, MSc  
Affiliation: Department of Earth Sciences, University of Toronto  
Thesis title: Multimedia Indoor Modelling of Organophosphate esters  
Role: Examination Committee Member  
Date: September 21, 2018
3. Johnson, Lynn, MSc  
Affiliation: Institute for Medical Sciences, University of Toronto  
Thesis title: Mortality of nosocomial pneumonia in adults hospitalized in Canadian acute care facilities

Role: Examination Committee Member  
Date: May 27, 2011

4. Kim, David, PhD  
Affiliation: Department of Molecular Genetics, University of Toronto  
Thesis title: Molecular analysis of phenotypic diversity in human fungal pathogens  
Role: Examination Committee Member  
Date: July 26, 2018
5. Lafayette, Shantelle, MSc  
Affiliation: Department of Molecular Genetics, University of Toronto  
Thesis title: PKC Signaling regulates drug resistance of *Candida albicans* and *Saccharomyces cerevisiae* via divergent circuitry comprised of the MAPK Cascade, Calcineurin and Hsp90  
Role: Examination Committee Member  
Date: August 17, 2010
6. Navaranjan, Garthika, MPH  
Affiliation: Dalla Lana School of Public Health, Division of Occupational & Environmental Health  
Role: Comprehensive Examination Committee Chair  
Date: December 11, 2018
7. Nichol, Kathryn, PhD  
Affiliation: Institute for Medical Sciences, University of Toronto  
Thesis title: Behind the mask: Determinants of nurses' adherence to recommend use of facial protective equipment to prevent occupational transmission of communicable respiratory illness in acute care hospitals  
Role: Examination Committee Member  
Date: June 24, 2010
8. Pitkäranta, Miia, PhD  
Affiliation: Faculty of Biological and Environmental Sciences, University of Helsinki  
Thesis title: Molecular profiling of indoor microbial communities in moisture damaged and non-damaged buildings  
Role: Opponent  
Date: January 20, 2012
9. Saunders, Megan, PhD  
Affiliation: Department of Ecology and Evolutionary Biology, University of Toronto  
Thesis title: Biotic filters in fungal endophyte community assembly  
Role: Examination Committee Member  
Date: November 6, 2009
10. Sauer, Anya, MASc  
Affiliation: University of Western Ontario, Department of Electrical Engineering  
Thesis title: The design and evaluation of a photoelectronic mould sensor  
Role: Examination Committee Member  
Date: December 15, 2008
11. Zhao, Jianhua, PhD  
Affiliation: University of Toronto, Department of Medical Biophysics  
Thesis title: Study of the yeast vacuolar-type ATPase by electron cryomicroscopy  
Role: Examination Committee Chair  
Date: January 29, 2016

### ***Post-doctoral student/ Research Associate supervision***

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1. *Al-Naama, Menhel, PhD*  
Supervisor, 2006–2010
2. *Arocha-Rosete, Yaima, PhD*  
Supervisor, 2009–pres
3. *Cruvinel, Vanessa, PhD (Visiting Professor, University of Brasília)*  
Host, 2018–2019
4. *Ewaze, Juliet, PhD*  
Supervisor, 2002–2011
5. *Green, Brett, PhD*  
Supervisor, 2007–2008
6. *Groulx, Nicolas, PhD*  
Co-Supervisor, 2016–2018
7. *Kalliny, Medhat, MD, PhD*  
Supervisor, 2007–2009
8. *Koster, Brenda, PhD*  
Supervisor, 2009–2013
9. *Moeder, Wolfgang, PhD*  
Co-Supervisor, 2018–pres
10. *Morales, Nadia, PhD*  
Supervisor, 2017–2018
11. *Motavaze, Kamyar, PhD*  
Supervisor, 2013–2015

### ***Supervision of other highly qualified people (HQP)***

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1. *Arnold, Ian, MPH*  
Research Assistant, Supervisor, 2009–2010
2. *Du, Susan, MSc*  
Laboratory Technician 1, Supervisor, 2009–2012
3. *Gibas, Connie, PhD*  
UAMH Curator, Supervisor, 2015–2016
4. *Guardiola, Yordanka, MSc*  
UAMH Curator, Supervisor, 2016–pres
5. *Kim, Ji-Sun, BSc*  
Laboratory Technician 2, Supervisor, 2014
6. *Konya, Tedd, MAT, MPH*  
Laboratory Technician 3, Supervisor, 2008–2017

7. *Speck, Mary, MLT*  
Laboratory Technician 3, Supervisor, 2020–pres
8. *Tyli, Rachel, BAsC*  
Laboratory Technician 1, Supervisor, 2020–pres
9. *Wong, Bess, MSc*  
Laboratory Technician 4, Supervisor, 2003–2011