

Identification

Family Name	Turvey
First name and initials	Stuart E
Institution	The University of British Columbia
Position	Professor
Department/Division	Pediatrics

Academic background

Degree type	Year received or expected	Discipline/Field/Speciality	Institution and country
Postdoctorate	2004	Clinical Immunology	Children's Hospital (Boston), United States of America (the)
Postdoctorate	2004	Immunology and Inflammation	Joslin Diabetes Center, United States of America (the)
Postdoctorate	2002	Pediatrics	Children's Hospital (Boston), United States of America (the)
Doctorate	1999	Immunology	University of Oxford, United Kingdom of Great Britain and Northern Ireland (the)
Doctorate	1996	Clinical Medicine	University of Sydney, Australia
Bachelor's	1993	Physiology	University of Sydney, Australia

Work experience

Position/Organization	Department/Division	Period	
		Start date	End date
Professor, University of British Columbia	Pediatrics	2014	
Associate Faculty, University of British Columbia	Pathology and Laboratory Medicine	2006	
Associate Faculty, University of British Columbia	Microbiology and Immunology	2006	
Associate Professor, University of British Columbia	Pediatrics	2009	2014

Position/Organization	Department/Division	Period	
		Start date	End date
Assistant Professor, University of British Columbia	Pediatrics	2004	2009

List of published contributions

This section provides a list of the most significant published contributions (e.g. submitted and/or published articles, patents, technical reports).

SELECTED PUBLICATIONS

Full List on PubMed: <https://www.ncbi.nlm.nih.gov/myncbi/browse/collection/59054726/>

Sbihi H, Jones MJ, MacIsaac JL, Brauer M, ... Kobor MS, Turvey SE (2019). Prenatal exposure to traffic-related air pollution, the gestational epigenetic clock and risk of early-life allergic sensitization. *J Allergy Clin Immunol*. 144(6):1729-1731.e5.

Sbihi H, Boutin RCT, Cutler C, Suen M, Finlay BB, Turvey SE (2019). Thinking bigger: How early life environmental exposures shape the gut microbiome and influence the development of asthma and allergic disease. *Allergy*. 74(11):2103-2115.

Lu HY, Bauman BM, Arjunaraja S, Dorjbal B, Milner JD, Snow AL, Turvey SE (2018). The CBMopathies - A Rapidly Expanding Spectrum of Human Inborn Errors of Immunity Caused by Mutations in the CARD11-BCL10-MALT1 Complex. *Front Immunol*. 9:2078.

Lu HY, Sharma M, Biggs CM, Huang YH, Shopsowitz KE, Frosk P, Priatel JJ, Rubin TS, Turvey SE (2018). The importance of functional validation after next-generation sequencing: evaluation of a novel CARD11 variant. *Pediatr Allergy Immunol*. 29(6):663-668.

Cordeiro A, Prykhozhiy S, Deveau A, Del Bel KL, Ragotte R, Turvey SE, Berman J (2018). Using Zebrafish to Model JAK1-A634D Gain-of-Function Mutation in Familial Eosinophilia. *Exp Hematol* 64:S59.

Tang AC, Rahavi SM, Fung SY, Lu HY, Yang H, Lim CJ, Reid GS, Turvey SE (2018). Combination therapy with proteasome inhibitors and TLR agonists enhances tumour cell death and IL-1 β production. *Cell death & disease*. 9(2):162.

Del Bel KL, Ragotte RJ, Saferali A, ... Seear M, McKinnon ML, Turvey SE (2017). JAK1 gain-of-function causes an autosomal dominant immune dysregulatory and hypereosinophilic syndrome. *J Allergy Clin Immunol*. 139(6):2016-2020.

Stiemsma LT, Arrieta MC, Dimitriu PA, ... CHILD Study Investigators, Mohn WW, Finlay BB, Turvey SE (2016). Shifts in *Lachnospira* and *Clostridium* sp. in the 3-month stool microbiome are associated with preschool age asthma. *Clinical science*. 130(23):2199-2207.

Tang AC, Saferali A, He G, Sandford AJ, Strug LJ, Turvey SE (2016). Endoplasmic reticulum stress regulates chemokine production in cystic fibrosis airway cells through STAT3 modulation. *J Infect Dis*. 215(23):293-302.

Klein T[^], Fung SY[^], Renner F, Blank MA, ... Gold MR, Viner RI, Régnier CH, Turvey SE*, Overall CM* | [^]contributed equally *Co-senior & co-corresponding (2016). The paracaspase MALT1 cleaves HOIL1 reducing linear ubiquitination by LUBAC to dampen lymphocyte NF- κ B signalling. *Nature Communications*. 6:8777.

List of published contributions

Yang H, Kozicky L, Saferali A, Fung SY, Afacan N, Cai B, Falsafi R, Gill E, Liu M, Kollmann TR, Hancock RE, Sly LM, Turvey SE (2016). Endosomal pH modulation by peptide-gold nanoparticle hybrids enables potent anti-inflammatory activity in phagocytic immune cells. *Biomaterials*. 111:90-102.

Grazioli S, Hamilton SJ, McKinnon ML, Del Bel KL, Hoang L, Cook VE, Hildebrand KJ, Junker AK, Turvey SE (2016). IRAK-4 deficiency as a cause for familial fatal invasive infection by *Streptococcus pneumoniae*. *Clinical Immunology*. 163:14-6.

Arrieta MC[^], Stiemsma LT[^], Dimitriu PA, Thorson L, Russell S, Yurist-Doutsch S, Kuzeljevic B, Gold MJ, ... CHILD Study Investigators, Mohn, WM, Turvey SE*, Finlay BB* | [^]contributed equally. *Co-senior & co-corresponding (2016). Early infancy microbial and metabolic alterations affect risk of childhood asthma. *Science Translational Medicine*. 7(307):307ra152.

Rozmus J, McDonald R, Fung SY, Del Bel KL, ... McKinnon ML, Davis J, Turvey SE (2016). Successful clinical treatment and functional immunological normalization of human MALT1 deficiency following hematopoietic stem cell transplantation. *Clinical immunology*. 168:1-5.

Ragotte RJ, Dhanrajani A, Pleydell-Pearce J, Del Bel KL, ... Morishita KA, Turvey SE (2016). The importance of considering monogenic causes of autoimmunity: A somatic mutation in KRAS causing pediatric Rosai-Dorfman syndrome and systemic lupus erythematosus. *Clin Immunol*. 175:143-146.

Research or technology development funding

This table lists support held over the past five years as an applicant or co-applicant for grants and contracts from all sources, including industry and academic/research institutions. Maximum of ten entries.

Title of proposal Name of Principal Applicant / Principal investigator	Funding source Program name	Average amount per year	Support Period	
			Start date	End date
AWARDED				
Canada Research Chair in Pediatric Precision Health, Tier 1 Research Chair Stuart Turvey	Government of Canada Canada Research Chairs Program	\$200,000	2019	2025
Childhood Asthma and the Microbiome - Precision Health for Life: The Canadian Healthy Infant Longitudinal Development (CHILD) Study Stuart Turvey	Genome Canada Large-Scale Applied Research Project	\$2,285,000	2018	2022
Pediatric Precision Health Initiative Stuart Turvey	Canada Foundation for Innovation John R. Evans Leaders Fund (JELF) Canada Research Chairs (CRC) Partnership	\$28,570	2019	2021
Programmatic research to understand how modifiable environmental factors interact with the genome in the development of asthma Stuart Turvey	Canadian Institutes of Health Research (CIHR) Other - Environments, Genes and Chronic Disease	\$492,775	2016	2020
Development of Anti-Inflammatory Nanomedicine for Inflammatory Bowel Disease Stuart Turvey	Crohn's & Colitis Foundation of Canada (CCFC) Grants in Aid Research	\$118,333	2016	2019
Childhood lung diseases: Infectious and inflammatory mechanisms Stuart Turvey	Michael Smith Foundation for Health Research (formerly BC Health Research Foundation) Career Investigator Award: Clinical Research Scholar	\$79,375	2011	2019
Pre-commercialization studies to develop a microbiota-based diagnostic and preventative for asthma Stuart Turvey	AllerGen NCE Inc. Multi-year Strategic Initiative (MSI) Program	\$50,000	2015	2018
Discovery of new anti-inflammatory therapies for cystic fibrosis empowered by enhanced understanding of the mechanisms of lung-damaging inflammation Stuart Turvey	Cystic Fibrosis Canada General Research	\$88,050	2015	2018
Discovery of novel inhibitors of Toll-like receptor signaling Stuart Turvey	Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant	\$36,000	2013	2018
Understanding the Novel Human Primary Immunodeficiency Caused by MALT1 Mutations Stuart Turvey	Canadian Institutes of Health Research (CIHR) Operating Grant - 2013-2014 competition	\$133,779	2014	2017