

Resume

Igor Burstyn, Ph.D.

Department of Environmental and Occupational Health (primary appointment)

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Academic appointments

Associate Professor Tenured 2012	Department of Environmental and Occupational Health	Drexel University United States of America	Since 2009
Associate Professor Tenured 2007	Department of Medicine	The University of Alberta Canada	2007-2009
Adjunct Professor	Institute for Risk Assessment Sciences	Utrecht University The Netherlands	2003-2009
	Department of Medicine	The University of Alberta Canada	2009-2011
	School of Public Health	The University of Alberta Canada	2008-2011
Assistant Professor tenure-track	Department of Public Health Sciences	The University of Alberta Canada	2003-2007
Researcher	Institute for Risk Assessment Sciences	Utrecht University The Netherlands	2001-2002

Education

Doctor of Philosophy [*]	Environmental & Occupational Health	Utrecht University & International Agency for Research on Cancer	1997 - 2001
Master of Science [†]	Occupational Hygiene	The University of British Columbia	1994 - 1996
Bachelor of Science	Microbiology	The University of British Columbia	1989 - 1993

^{*} Copy of dissertation: <http://igitur-archive.library.uu.nl/dissertations/1957878/UUindex.html>

[†] Copy of dissertation: https://circle.ubc.ca/bitstream/handle/2429/4722/ubc_1996-0577.pdf?sequence=1

Awards

Outstanding Contribution to Epidemiology, American College of Epidemiology	2019
Golden Apple teaching award, Drexel School of Public Health (nominated)	2011, 2016
Population Health Investigator (Alberta Heritage Foundation for Medical Research)	2005 - 2009
<i>Renewed till 2011 but terminated prematurely because of loss of eligibility due to emigration to USA upon accepting position at Drexel University</i>	
New Investigator Award, non-renewable (Canadian Institutes of Health Research)	2003 - 2007
ISEE/ISEA Conference Travel Award	2002
Special training award, the International Agency for Research on Cancer	1997 - 2000
The National Sciences and Engineering Research Council Post-graduate Fellowship	1994 - 1996
The National Sciences and Engineering Research Council Undergraduate Studentship	1992 and 1993
Alexander Durdle Scholarship	1991
Alexander Rutherford Scholarship	1989

Research Contributions*

The ten manuscripts on the basis of which I wish to be judged by my peers

1. Singer AB, Fallin MD, **Burstyn I**: Bayesian correction for exposure misclassification and evolution of evidence in two studies of the association between maternal occupational exposure to asthmagens and risk of autism spectrum disorder. *Current Environmental Health Reports* 5(3):338-50 (2018) (<http://dx.doi.org/10.1007/s40572-018-0205-0>).
2. **Burstyn I**, Gustafson P, Pintos J, Lavoué J, Siemiatycki J: Correction of odds ratios in case-control studies for exposure misclassification with partial knowledge of the degree of agreement among experts who assessed exposures. *Occupational and Environmental Medicine* 75(2):155-9 (2018) (<http://dx.doi.org/10.1136/oemed-2017-104609>).
3. Goldstein ND, Welles SL, **Burstyn I**: To be or not to be: Bayesian correction for misclassification of self-reported sexual behaviors among men who have sex with men. *Epidemiology* 26(5):637-44 (2015) (<http://dx.doi.org/10.1097/EDE.0000000000000328>) (with original poem).
4. **Burstyn I**: Peering through the mist: What does the chemistry of contaminants in electronic cigarettes tell us about health risks? *BMC Public Health* 14:18 (2014) (<http://www.biomedcentral.com/1471-2458/14/18>). *Impact*: 99th percentile *Altmetric* score on all score rubrics ([Altmetric.com](http://www.altmetric.com)); “highly accessed” publication according to *BioMed Central* (<http://www.biomedcentral.com/about/mostviewed/>; <http://www.biomedcentral.com/1471-2458/14/18/about>); in the top 5% of all research outputs scored by *Altmetric*; one of the highest-scoring outputs from the journal (#3 of 8,511); *erratum* in <http://antithrives.com/2015/06/11/post-publication-peer-review-correction-to-burstyn-2014-and-related-matters/>; (with special thanks to Carl. V. Phillips).
5. **Burstyn I**, Lavoué J, van Tongeren M: Aggregation of exposure level and probability into a single metric in job-exposure matrices creates bias. *The Annals of Occupational Hygiene* 56(9):1038-50 (2012) (<http://dx.doi.org/10.1093/annhyg/mes031>).
6. Gustafson P, **Burstyn I**: Bayesian inference of gene-environment interaction from incomplete data: What happens when information on environment is disjoint from data on gene and disease? *Statistics in Medicine* 30(8):877-89 (2011) (doi: 10.1002/sim.4176).
7. **Burstyn I**, Wang X, Yasui Y, Sithole F, Zwaigenbaum L: Autism spectrum disorders and fetal hypoxia in a population-based cohort: Accounting for missing exposures via Estimation-Maximization algorithm. *BMC Medical Research Methodology* 11:2 (2011) (<http://www.biomedcentral.com/1471-2288/11/2>).
8. Kim HM, Richardson D, Loomis D, van Tongeren M, **Burstyn I**: Bias in the estimation of exposure effects with individual- or group-based exposure assessment. *Journal of Exposure Analysis & Environmental Epidemiology* 21: 212-21 (2011) (<http://dx.doi.org/10.1038/jes.2009.74>).
9. **Burstyn I**: Measurement error and model specification in determining how duration of tasks affects level of occupational exposure. *The Annals of Occupational Hygiene* 53(3):265-70 (2009) (<http://dx.doi.org/10.1093/annhyg/mep003>).
10. **Burstyn I** and Teschke K: Studying the determinants of exposure: A review of methods. *American Industrial Hygiene Association Journal* 60:57-72 (1999): **commonly used in teaching industrial hygiene at the university level.**

Articles: in preparation and submitted

* in reverse chronological order; names of trainees under my supervision are underlined

Wang X, Lee NL, **Burstyn I**: Smoking and use of electronic cigarettes (vaping) in relation to preterm birth and small-for-gestational-age in a 2016 U.S. national sample. *Preventive Medicine* (submitted Nov 2019)

Xing L, Zhang X, **Burstyn I**, Gustafson P: Choice of Logistic Box-Cox Regression and Two-Step Approach to Assess the Shape and Gradient Measurements for Binary Outcome Model with the Right Skewed Predictor. *Canadian Journal of Statistics* (under review, August 2019)

All peer-reviewed articles and pre-prints (181 in total: high-impact papers denoted by★)

(... for a rapid look at incomplete listing see <http://www.ncbi.nlm.nih.gov/pubmed/?term=burstyn%20i> or https://scholar.google.com/citations?hl=en&user=hqegh7IAAAAJ&view_op=list_works)

Wang X, Lee NL, **Burstyn I**: Probabilistic sensitivity analysis: Gestational hypertension and differentially misclassified maternal smoking during pregnancy. *Annals of Epidemiology* (in press 2020)

Luo H, Bouchard-Côté A, **Burstyn I**, Cohen Freue G, Gustafson P: A new perspective on the benefits of the gene-environment independence in case-control studies. *Canadian Journal of Statistics* 47:473-86 (2019) (doi: 10.1002/cjs.11509).

Burstyn I, LaCroix AZ, Litvan I, Wallace RB, Checkoway H: Occupation and Parkinson disease in the Women's Health Initiative Observational Study. *American Journal of Industrial Medicine* 62(9):766-76 (2019) (doi: 10.1002/ajim.23022) [*bioRxiv* (2019) 535732 (doi: <https://doi.org/10.1101/535732>)].

Burstyn I, Barone-Adesi F, de Vocht F, Gustafson P: What to do when accumulated exposure affects health but only its duration was measured? A case of linear regression. *International Journal Environmental Research and Public Health* 16(11): 1896 (2019) (<https://doi.org/10.3390/ijerph16111896>) (*Preprints* 2019, 2019040306 (doi: 10.20944/preprints201904.0306.v1)).

Phillips CV, **Burstyn I**, Carter BL: The limited value of journal peer review in public health: a case series of tobacco harm reduction articles. *OSF Preprints*. May 3. osf.io/q7jdv (doi: 10.31219/osf.io/q7jdv).

Michelle C Kondo MC, De Roos AJ, White L, Heilman W, Mockrin MH, Gross-Davis CA, **Burstyn I**: Meta-Analysis of heterogeneity in the effects of wildfire smoke exposure on respiratory health in North America. *International Journal Environmental Research and Public Health* 16(6): 960 (2019) (<https://doi.org/10.3390/ijerph16060960>).

Hoover DR, Shi Q, **Burstyn I**, Anastos K: Repeated measures regression in laboratory, clinical and environmental research: Common misconceptions in the matter of different within- and between-subject slopes. *International Journal Environmental Research and Public Health* 16(3): 504 (2019) (<https://doi.org/10.3390/ijerph16030504>).

Xing L, Zhang X, **Burstyn I**, Gustafson P: Logistic box-cox regression to assess the shape and median effect under uncertainty about model specification. *ArXiv > Statistics > Methodology* (2019): 1901.11362 (<https://arxiv.org/abs/1901.11362>).

Burstyn I: Occupational epidemiologist's quest to tame measurement error in exposure. *OSF Preprints* (2019) Retrieved from osf.io/r9xy3 (<https://doi.org/10.31219/osf.io/r9xy3>).

Wang X, Lee NL, **Burstyn I**: Maternal smoking and gestational hypertension: heterogeneous effect by timing of the exposure. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health* 15:123-9 (2019) (<https://doi.org/10.1016/j.preghy.2018.12.011>).

Lee DG, **Burstyn I**, Lai AS, Grundy A, Friesen MC, Aronson KJ, Spinelli JJ: Women's occupational exposure to polycyclic aromatic hydrocarbons and risk of breast cancer. *Occupational & Environmental Medicine* 76(1): 22-9 (2019) (<http://dx.doi.org/10.1136/oemed-2018-105261>).

Schouten J, Beach J, **Burstyn I**, Senthilselvan A, Cherry NM: Is farm milk a risk factor for sarcoidosis? The role of farm residence, un-piped water and untreated milk in sarcoidosis: a case-referent study in Alberta, Canada. *International Journal Environmental Research and Public Health* 15: 2755 (2018) (doi:10.3390/ijerph15122755).

Singer AB, Fallin MD, **Burstyn I**: Bayesian correction for exposure misclassification and evolution of evidence in two studies of the association between maternal occupational exposure to asthmagens and risk of autism spectrum disorder. *Current Environmental Health Reports* 5(3):338-50 (2018) (doi: 10.1007/s40572-018-0205-0).

McNamara K, Peters C, **Burstyn I**: Forecasting dose from unobserved times: case study of transient workers at a nuclear power plant. *Annals of Work Exposures and Health* 62(7):808-17 (2018) (doi: 10.1093/annweh/wxy057).

Cherry NM, Beach J, Senthilselvan A, **Burstyn I**: Pesticide use and asthma in Alberta grain farmers. *The International Journal of Environmental Research and Public Health* 15(3):526 (2018) (doi: 10.3390/ijerph15030526).

Sarazin P, **Burstyn I**, Kincl L, Friesen MC, Jérôme Lavoué J: Characterization of the selective recording of workplace exposure measurements into OSHA's IMIS databank. *Annals of Work Exposures and Health* 62(3):269-80 (2018) (doi: 10.1093/annweh/wxy003).

Omokhodion FO, Roberts OA, Onadeko MO, Beach JR, Cherry NM, **Burstyn I**: Social, obstetric and environmental determinants of low Apgar score among infants born in four selected hospitals in Ibadan, Nigeria. *Journal of Obstetrics and Gynaecology* 38(4):454-60 (2018) (doi: 10.1080/01443615.2017.1367764).

Burstyn I, Gustafson P, Pintos J, Lavoué J, Siemiatycki J: Correction of odds ratios in case-control studies for exposure misclassification with partial knowledge of the degree of agreement among experts who assessed exposures. *Occupational and Environmental Medicine* 75(2):155-9 (2018) (doi: 10.1136/oemed-2017-104609).

- Jones RM, Burstyn I: A conceptual model for take-home workplace exposures. *Journal of Occupational & Environmental Hygiene* 15(1):D8-D11 (2018) (doi: 10.1080/15459624.2017.1392531).
- Jones RM, Burstyn I: Bayesian analysis of occupational exposure data with conjugate priors. *Annals of Work Exposures and Health* 61(5):504-14 (2017) (doi: 10.1093/annweh/wxx032) [Awarded the distinction as “editor’s choice” article.].
- Singer AB, Burstyn I, Thygesen M, Mortensen PB, Fallin MD, Schendel DE: Parental exposures to occupational asthmagens and risk of autism spectrum disorder in a Danish population-based case-control study. *BMC Environmental Health* 16(1):31 (2017) (doi: 10.1186/s12940-017-0230-8).
- ★ Goldstein ND, Burstyn I, Welles SL: The racial disparity conundrum of HIV risk among men who have sex with men: Bayesian approaches for correcting estimates of risk. *Epidemiology* 28(2):215-220 (2017) (doi: [10.1097/EDE.0000000000000582](https://doi.org/10.1097/EDE.0000000000000582)). [The 2016 Epidemiology Congress awarded the paper the 2016 Tyroler Student Prize Paper Award, is given to recognize the best submitted paper by a student in a doctoral program with a concentration in epidemiology.]
- Park B, Lee, BK, Burstyn I, Tabb LP, Keelan JA, Whitehouse AJO, Croen LA, Fallin MD; Hertz-Picciotto I, Montgomery O, Newschaffer CJ: Umbilical Cord Blood Androgen Levels and ASD-Related Phenotypes at 12 Months in an enriched risk cohort study. *Molecular Autism* 31;8:3 (2017) (<http://rdcu.be/FWD6>) (doi: [10.1186/s13229-017-0118-z](https://doi.org/10.1186/s13229-017-0118-z)).
- Burstyn I, De Roos AJ: Visualizing heterogeneity of effects in analysis of associations of multiple myeloma with glyphosate use. *International Journal of Environmental Research and Public Health* 14(1)5 (2017) (<http://www.mdpi.com/1660-4601/14/1/5>; doi: [10.3390/ijerph14010005](https://doi.org/10.3390/ijerph14010005)).
- de Vocht F, Burstyn I: Comments on “Maternal exposure to extremely low frequency magnetic fields: Association with time to pregnancy and foetal growth”. *Environment International* 96:190-1 (2016) (<http://dx.doi.org/10.1016/j.envint.2016.09.001>).
- Singer AB, Windham GC, Croen LA, Daniels JL, Lee BK, Schendel DE, Fallin MD, Burstyn I: Maternal exposure to occupational asthmagens during pregnancy and autism spectrum disorder in the Study to Explore Early Development. *Journal of Autism & Developmental Disorders* 46(11):3458-68 (2016) (doi: [10.1007/s10803-016-2882-6](https://doi.org/10.1007/s10803-016-2882-6)).
- Goldstein ND, Burstyn I, LeVasseur MT, Welles SL: Recreational drug use among men by sexual orientation, race and ethnicity: prevalence estimates from a nationally representative sample US sample. *International Journal of Drug Policy* 36:148-50 (2016) (doi: [10.1016/j.drugpo.2016.01.008](https://doi.org/10.1016/j.drugpo.2016.01.008)).
- Jones RM, Burstyn I: Cross-classified occupational exposure data. *Journal of Occupational & Environmental Hygiene* 13(9):668-74 (2016) (doi: [10.1080/15459624.2016.1165913](https://doi.org/10.1080/15459624.2016.1165913)).
- Guseva Canu I, Burstyn I, Richardson DB: The order of things: control bands for risk managers and scientists. *Epidemiology* 27(5):765-8 (2016) (doi: [10.1097/EDE.0000000000000491](https://doi.org/10.1097/EDE.0000000000000491)).
- Goldstein ND, Burstyn I, Newbern EC, Tabb LP, Gutowski J, Welles SL: Bayesian correction of misclassification of pertussis in vaccine effectiveness studies: How much does underreporting matter? *American Journal of Epidemiology [Practice of Epidemiology section]* 183(11):1063-70 (2016) (pii: [kwv273](https://doi.org/10.1093/aje/kwv273); <http://www.ncbi.nlm.nih.gov/pubmed/27188939>).
- Shi J, Grundy A, Richardson H, Burstyn I, Schuetz JM, Lohrisch CA, SenGupta SK, Lai AS, Brooks-Wilson A, Spinelli JJ, Aronson KJ: Genetic variation in vitamin D-related genes and risk of breast cancer among women of European and East Asian descent. *Tumor Biology* 37(5):6379-87 (2016) (doi: [10.1007/s13277-015-4417-8](https://doi.org/10.1007/s13277-015-4417-8)).
- Shi J, Aronson KJ, Grundy A, Kobayashi LC, Burstyn I, Schuetz JM, Lohrisch CA, SenGupta SK, Lai AS, Brooks-Wilson A, Spinelli JJ, Richardson H: Polymorphisms of insulin-like growth factor 1 pathway genes and breast cancer risk. *Journal: Frontiers in Oncology* 6:136 (2016) (doi: [10.3389/fonc.2016.00136](https://doi.org/10.3389/fonc.2016.00136)).
- Grundy A, Richardson H, Schuetz JM, Burstyn I, Spinelli JJ, Brooks-Wilson A, Aronson KJ: DNA repair variants and breast cancer risk. *Environmental and Molecular Mutagenesis* 57(4):269-81 (2016) (doi: [10.1002/em.22013](https://doi.org/10.1002/em.22013)).
- Lee PH, Burstyn I: Identification of confounder in epidemiologic data contaminated by measurement error in covariates. *BMC Medical Research Methodology* 16(1):54 (2016) (doi: [10.1186/s12874-016-0159-6](https://doi.org/10.1186/s12874-016-0159-6)).
- ★ Donovan GH, Jovan S, Gatzliolis D, Burstyn I, Michael YL, Amacher MC, Monleon VJ: Using an epiphytic moss to identify previously unknown sources of atmospheric cadmium pollution. *Science of the Total Environment* 559:84-93 (2016) (doi: [10.1016/j.scitotenv.2016.03.182](https://doi.org/10.1016/j.scitotenv.2016.03.182)) [The results of this work were subject of intense national media coverage: e.g. <http://www.nytimes.com/2016/03/03/us/toxic-moss-in-oregon-upsets-city-known-for-environmental-ideals.html>, <http://www.fs.fed.us/pnw/news/2016/04/moss-study.shtml>, and actions by national and regional regulatory authorities, like EPA.]
- Sarazin P, Burstyn I, Kincl L, Lavoué J: Trends in OSHA compliance monitoring data 1979-2011: statistical modeling of ancillary information across 77 chemicals *The Annals of Occupational Hygiene* 60(4):432-52 (2016) (doi: [10.1093/annhyg/mev092](https://doi.org/10.1093/annhyg/mev092)).
- Kondo MC, Sharma R, Plante AF, Yang Y, Burstyn I: Elemental concentrations in urban green stormwater infrastructure soils. *Journal of Environmental Quality* 45(1):107-18 (2016) (doi: [10.2134/jeq2014.10.0421](https://doi.org/10.2134/jeq2014.10.0421)).
- Gidaya NB, Lee BK, Burstyn I, Michael Y, Newschaffer CJ, Mortensen EL: In utero exposure to β -2-adrenergic receptor agonist and risk for autism spectrum disorders. *Pediatrics* 137(2):1-8 (2016) (doi: [10.1542/peds.2015-1316](https://doi.org/10.1542/peds.2015-1316)).

- Luo H, **Burstyn I**, Gustafson P: Gene-environment independence in case-control studies: Issues of parameterization and Bayesian inference. *Statistics in BioScience* 7(2) 460-75 (2015) (doi:[10.1007/s12561-015-9134-8](https://doi.org/10.1007/s12561-015-9134-8)).
- Burstyn I**, Hamra BG, Symons JM: Bayesian approach to “healthy worker hire effect” in standardized mortality ratio analysis. *Journal of Occupational and Environmental Medicine* 57(12):1311-4 (2015).
- Heavner KK, Newschaffer CJ, Hertz-Picciotto I, Bennett D, **Burstyn I**: Pooling bio-specimens in presence of measurement error and non-linearity in dose-response: Simulation study in the context of a birth cohort investigating risks factors for autism spectrum disorders. *International Journal of Environmental Research and Public Health* (2015) 12(11): 14780-99 (doi:[10.3390/ijerph121114780](https://doi.org/10.3390/ijerph121114780); <http://www.mdpi.com/1660-4601/12/11/14780>).
- Heavner KK, **Burstyn I**: Categorizing continuous exposure variables in autism research: small changes with large effects. *International Journal of Environmental Research and Public Health* 12(8):10198-234 (2015) (doi:[10.3390/ijerph120810198](https://doi.org/10.3390/ijerph120810198); <http://www.mdpi.com/1660-4601/12/8/10198>).
- Lee DG, Lavoué J, Spinelli JJ, **Burstyn I**: Statistical modeling of occupational exposure to polycyclic aromatic hydrocarbons using OSHA data. *Journal of Occupational and Environmental Hygiene* 12(10):729-42 (2015) (doi:[10.1080/15459624.2015.1043049](https://doi.org/10.1080/15459624.2015.1043049); <http://www.tandfonline.com/eprint/KN4re5NgkIjzKqr8zRbV/full>)
- Goldstein ND, Welles SL, **Burstyn I**: To be or not to be: Bayesian correction for misclassification of self-reported sexual behaviors among men who have sex with men. *Epidemiology* 26(5):637-44 (2015) (doi:[10.1097/EDE.0000000000000328](https://doi.org/10.1097/EDE.0000000000000328)) (with original poem).
- de Vocht F, **Burstyn I**, Sanguanchaiyakrit N: Rethinking cumulative exposure in epidemiology, again. *Journal of Exposure Science and Environmental Epidemiology* 25(5):467-73 (2015) (doi: [10.1038/jes.2014.58](https://doi.org/10.1038/jes.2014.58)).
- Palumbo A, Michael YL, **Burstyn I**, Lee BK, Wallace R: Occupational physical demands and hip fracture in older women. *Occupational and Environmental Medicine* 72(8):567-72 (2015) (doi: 10.1136/oemed-2014-102670).
- Rosen B, Lee BK, Lee NL, Yang Y, **Burstyn I**: Maternal smoking and autism spectrum disorder: a meta-analysis. *Journal of Autism and Developmental Disorders* 45(6):1689-98 (2015) (doi: [10.1007/s10803-014-2327-z](https://doi.org/10.1007/s10803-014-2327-z)).
- Friesen MC, Shortreed SM, Wheeler DC, Stewart PA, **Burstyn I**, Vermeulen R, Pronk A, Colt JS, Baris D, Karagas MR, Schwenn M, McCoy R, Silverman DT, Yu K: Using hierarchical cluster models to systematically identify groups of jobs with similar occupational questionnaire response patterns to assist rule-based expert exposure assessment in population-based studies. *Annals of Occupational Hygiene* 59(4):455-66 (2015) (doi: [10.1093/annhyg/meu101](https://doi.org/10.1093/annhyg/meu101)).
- Wheeler DC, Archer KJ, **Burstyn I**, Yu K, Stewart PA, Colt JS, Baris D, Karagas MR, Schwenn M, Johnson A, Silverman DT, Friesen MC: Comparison of ordinal and nominal classification trees to predict ordinal expert-based occupational exposure estimates in case-control studies. *The Annals of Occupational Hygiene* 59(3):324-35 (2015) (doi: [10.1093/annhyg/meu098](https://doi.org/10.1093/annhyg/meu098)).
- Heavner KK, Gross-Davis CA, Frank AL, Newschaffer C, Klotz J, **Burstyn I**: Working environment and myeloproliferative neoplasm: a population-based case-control study following a cluster investigation. *American Journal of Industrial Medicine* 58(6):595-604 (2015) (doi: [10.1002/ajim.22451](https://doi.org/10.1002/ajim.22451)).
- Gross-Davis CA, Frank AL, Newschaffer C, Klotz J, Heavner KK, Santella RM, **Burstyn I**: The role of genotypes that modify the toxicity of chemical mutagens in the risk for myeloproliferative neoplasms. *International Journal of Environmental Research and Public Health* 12(3): 2465-85 (2015) (doi:[10.3390/ijerph120302465](https://doi.org/10.3390/ijerph120302465); <http://www.mdpi.com/1660-4601/12/3/2465>).
- Lee BK, Dalman C, Gardner RM, Dal H, Blomström A, Newschaffer CJ, **Burstyn I**, Karlsson H, Magnusson C: Maternal hospitalization with infection during pregnancy and risk of autism spectrum disorders. *Brain, Behavior, and Immunity* 44:100-5 (2015) (doi: [10.1016/j.bbi.2014.09.001](https://doi.org/10.1016/j.bbi.2014.09.001)).
- Cherry NM, Beach J, **Burstyn I**, Parboosingh J, Schouchen J, Senthilselvan A, Svenson L, Tamminga J, Yiannakoulis N: Genetic susceptibility to beryllium: a case-referent study of men and women of working age with sarcoidosis or other chronic lung disease. *Occupational & Environmental Medicine* 72:21-7 (2015) (doi: [10.1136/oemed-2014-102359](https://doi.org/10.1136/oemed-2014-102359)).
- Burns CJ, Wright JM, Pierson J, Bateson TF, **Burstyn I**, Goldstein DA, Klaunig JE, Luben TJ, Mihlan GJ, Ritter L, Schnatter AR, Symons JM, Yi KD: Evaluating uncertainty to strengthen epidemiologic data for use in human health risk assessments. *Environmental Health Perspectives* 122(11):1160-5 (2014) (doi: [10.1289/ehp.1308062](https://doi.org/10.1289/ehp.1308062)).
- Kondo MC, Mizes C, Edwards K, Lee J, McGady-Saier J, O'Malley L, Diliberto A, **Burstyn I**: Towards participatory air pollution exposure assessment in a goods movement community. *Progress in Community Health Partnerships* 8(3):291-304 (2014) (doi: [10.1353/cpr.2014.0047](https://doi.org/10.1353/cpr.2014.0047)).
- Burstyn I**, Yang Y, Schnatter, A R: Effects of non-differential exposure misclassification on false conclusions in hypothesis-generating studies. *International Journal of Environmental Research and Public Health* 11(10): 10951-66 (2014) (doi:[10.3390/ijerph111010951](https://doi.org/10.3390/ijerph111010951); <http://www.mdpi.com/1660-4601/11/10/10951/pdf>).
- Gidaya NB, Lee BK, **Burstyn I**, Yudell M, Mortensen EL, Newschaffer CJ: *In utero* exposure to selective serotonin reuptake inhibitors and risk for autism spectrum disorder. *Journal of Autism and Developmental Disorders* 44(10):2558-67 (2014) (doi: [10.1007/s10803-014-2128-4](https://doi.org/10.1007/s10803-014-2128-4)).

- Kondo MC**, Mizes C, Lee J, **Burstyn I**: Black carbon concentrations in a goods-movement neighbourhood of Philadelphia, PA. *Environmental Monitoring and Assessment* 186(7):4605-18 (2014) (doi: [10.1007/s10661-014-3723-8](https://doi.org/10.1007/s10661-014-3723-8)).
- Burstyn I**, Slutsky A, Lee DG, Singer AB, An Y, Michael YL: Beyond crosswalks: Reliability of exposure assessment following automated coding of free-text job descriptions for occupational epidemiology. *The Annals of Occupational Hygiene* 58(4):482-92 (2014) (doi: [10.1093/annhyg/meu006](https://doi.org/10.1093/annhyg/meu006)).
- Suarthana E, Debia M, **Burstyn I**, Kromhout H: Do existing empirical models for welding fumes estimate exposure to ultrafine particles among Canadian welding apprentices? *Journal of Occupational and Environmental Medicine* 56(4): e9-e11 (2014) (doi: [10.1097/JOM.0000000000000134](https://doi.org/10.1097/JOM.0000000000000134)).
- de Vocht F, **Burstyn I**: Refutation of dirty electricity hypothesis in obesity: epistemological arguments and trans-disciplinary study using an instrumental variable. *Electromagnetic Biology and Medicine* 33(1):1-2 (2014) (doi: [10.3109/15368378.2013.852567](https://doi.org/10.3109/15368378.2013.852567)).
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Other scholarly contributions

- Burstyn I**: *Social Epidemiology: Oy vey...* (2017) <http://www.funpolice.eu/dec%2017.htm>
- Burstyn I**: *Epidemiology: a canine intervention* (2016) <http://www.funpolice.eu/december%202016.htm>
- Burstyn I**: *What is in the name?* (on perception of e-cigs) (2015) <http://www.funpolice.eu/november%202015.htm>
- Burstyn I**, Phillips CV: *Commonly committed errors by epidemiologist and public health professionals that you must avoid in your own writing and thinking in order to practice evidence-based public health: The Unlucky 13*. January 24, 2016. <https://antithrlies.com/2016/01/24/sunday-science-lesson-13-common-errors-in-epidemiology-writing/> (with commentary by Phillips CV).
- Phillips CV, Heavner-Phillips PS, **Burstyn IQ**, Bergen PL: Demonstrating that children believe that deadly tobacco products are harmless candy, an experimental study (a parody). February 29, 2010. <http://ep-ology.blogspot.com/2012/02/latest-in-tobacco-candy-research.html>.
- de Vocht F, **Burstyn I**: *Undeclared conflict of interest and scientific problems in studies on 'dirty electricity'*. (In September 2013, this letter, unpublished because it was too embracing to the journal, forced *Electromagnetic Biology and Medicine* to alter declaration of COI by authors contributing to the journal who broke the COI rules; blog detailing the story is <http://oehscience.wordpress.com/2013/12/12/dirty-electricity-is-not-getting-any-cleaner/>).

Invited presentations (32 in total)

Some methods for tidier answers to messy real-world questions. *GalaxoSmithKline*, July, 2019; Collegeville, PA.

- Cleaner methods for messy problems of observational epidemiology: A Bayesian contribution. *GalaxoSmithKline*, October 24, 2017; Collegeville, PA.
- Relative safety of e-cigarettes. Briefing of the US Congress staff and reporters organized by the *American Enterprise Institute*. March 18, 2015, Washington, DC, USA
- E-cigs & toxicology: Nothing new under the Sun. Food and Drugs Administration Public Workshop: *Electronic Cigarettes and the Public Health*. December 11, 2014, Silver Spring, MD, USA
- On the future of epidemiologic methods in context of risk assessment. *Panel discussion on the integration of workshop recommendations to move risk assessment forward*. Society for Risk Analysis annual meeting, December 11, 2013 Baltimore, MD, USA
- Getting more out of what we know about imperfection of exposure assessment. Université de Montréal, April 17, 2013, Montreal, Quebec, Canada
- The tales of two aggregations: Choices in exposure assessment impact epidemiologic result. Division of Biostatistics & Epidemiology, Dept of Medicine, Medical University of South Carolina, April 8, 2013, Columbia, South Carolina, USA.
- Optimistic user's perspective on Bayesian adjustments for measurement errors and misclassification in exposure. Symposium: Improving Reviews, Methods, and Transparency in Environmental Epidemiology to Inform Public Health Decision-Making. *International Society for Environmental Epidemiology*, University of South Carolina, August 26-30th 2012, Columbia, South Carolina, USA
- Does it matter that maternal smoking not reported correctly? Case study neonatal morbidity. The College on Problems of Drug Dependence, June 9-14, 2012, The La Quinta Resort & Club, Palm Springs, CA; the symposium titled "Do we under-treat the most prevalent form of maternal substance abuse?"
- Some challenges of studying role of environmental pollutants in autism: Case study of difficulties of measuring maternal smoking in pregnancy. Educational symposium on *Methodologic challenges in risk factor epidemiology: advancing the state of research*. The International Meeting for Autism Research (IMFAR), May 17-19, 2012, Toronto, ON, Canada
- Road to bias paved by sensible intuition: How we sometimes assess exposures in epidemiology. Dept. of Biostatistics, Bioinformatics and Biomathematics, Georgetown University, April 13, 2012, Washington, DC, USA
- Purpose-built occupational exposure databases are invaluable in risk assessment. DuPont Stine Haskel Research Facility, Newark, DE, April 4, 2012, USA
- In utero* exposure to perfluorinated acids, maternal hypothyroxinemia and fetal growth. Mount Sinai School of Medicine, December 14, 2011, New York, USA.
- Bayesian correction for exposure measurement error and misclassification in case-control studies. US National cancer Institute, January 21, 2011, Bethesda, MD, USA.
- Autism spectrum disorders and foetal hypoxia: Statistical challenges in analysis of a population-based cohort. Department of Statistics, The University of British Columbia, March 2, 2010, Vancouver, Canada
- Environmental exposures and pregnancy outcomes. Regional Laboratory Services Education Day, Alberta Health Services, February 27, 2010, Edmonton, Alberta, Canada.
- Asphalt fumes and the health of road construction workers. Drexel University, July 30, 2009, Philadelphia, PA, USA.
- Impact of maternal and in-utero exposures on child health: Cohort of pregnancies in Capital Health Region, Alberta. Workshop on Canadian Environment and Child Health and Development Research, February 9-10, 2009 Ottawa, Canada.
- Retrospective cohort of asphalt workers: Exposure reconstruction and lung cancer mortality trends. US National Cancer Institute, November 25, 2008, Bethesda, MD, USA.
- Environmental contaminants, fetal growth restriction, and early neonatal morbidity. Mount Sinai School of Medicine, May 30, 2008, New York, USA.
- A vignette from occupational epidemiology: Stitching evidence from tattered fabric. The workshop *Methodological Needs and Desires in Public and Population Health Research*, National Program in Complex Data Structures, April 25, 2008, The University of British Columbia, Vancouver, Canada (http://pims.math.ca/science/2008/08npcds/Burstyn_abs.pdf).
- Evaluation and control of exposure to asphalt fumes. University of Illinois at Chicago, February 2, 2008, Chicago, USA.
- Discussant in session on "Exposure assessment in occupational epidemiology: From using the best current methods to future methods." SER-CSEB meeting, June 27-30, 2005, Toronto, Canada.
- Trends in exposure to solvents among commercial painters. Symposium of American Industrial Hygiene Association, Alberta Section, March 12, 2004, Leduc, Canada.
- Trends in exposure to solvents among commercial painters. Occupational and Environmental Hygiene Research Symposium: New Directions and Challenges, April 25, 2003, Vancouver, Canada.

- Exposure to polycyclic aromatic hydrocarbons and chronic obstructive lung disease mortality in a cohort of European asphalt workers. Centre for Chronic Disease Prevention and Control, Health Canada, April 8, 2003, Ottawa, Canada.
- Principles of exposure assessment: Examples from occupational epidemiology. Centre for Chronic Disease Prevention and Control, Health Canada, April 7, 2003, Ottawa, Canada.
- Occupational Health Research at the University of Alberta: What can you expect in the future? Symposium of American Industrial Hygiene Association, Alberta Section, March 14, 2003, Calgary, Canada.
- Exposure to polycyclic aromatic hydrocarbons and chronic obstructive lung disease mortality in a cohort of asphalt workers. School of Occupational and Environmental Hygiene, the University of British Columbia, February 28, 2003.
- Review of statistical modelling of exposures for an epidemiological study and exposure controls in asphalt paving industry. Conference on Exposure Assessment in Epidemiology and Practice (X2001), June 10-13, 2001, Göteborg, Sweden.
- Can self-monitoring and self-assessment assist in exposure reconstruction in an international multi-centric nested case-control study? National Institute for Working Life Workshop: Chemical Exposure Assessment and Exposure Data Handling in Small and Medium Size Enterprises, April 10-12, 2000, Brussels, Belgium.
- Reclaimed Materials and Recycling in the Asphalt Industry: Implications for Occupational Health. National Institute for Working Life Workshop: Does recycling lead to new problems in the working environment? March 20-22, 2000, Brussels, Belgium.

Peer-reviewed abstracts: conferences and symposia presentation as presenter (co-authored abstracts not listed)

- Burstyn I**, Lee NL, Schriver E, Pandey J, Croen LA, Fallin D, Hertz-Picciotto I, Newschaffer C: Maternal sub-clinical hypothyroidism and risk of autistic endophenotype in a risk-enriched pregnancy cohort. IMFAR2015 (talk)
- Barone-Adesi F & **Burstyn I**: Duration as a proxy for cumulative exposure: Should we trust positive result? The 23th EPICOH International Conference on Epidemiology in Occupational Health, June 18-21, 2013, Utrecht, The Netherlands. (talk)
- Burstyn I**, Devaraj S, Croen LA, Fallin MD, Hertz-Picciotto I, Newschaffer C: Thyroid hormones in pregnancies at elevated risk of autism spectrum disorders. The International Meeting for Autism Research (IMFAR), May 17-19, 2012, Toronto, ON, Canada (poster).
- Burstyn I**, Lavoué J, van Tongeren M: Aggregation of exposure level and probability into a single metric in job-exposure matrices creates bias. X2012 The Seventh International Conference on Innovations in Exposure Assessment. July 2-5, 2012, Edinburgh, Scotland (talk).
- Burstyn I**, de Vocht F, Kim H-M, Cherry NM: Bayesian correction for measurement error following group-based exposure assessment in a case-referent study. The 22th EPICOH International Conference on Epidemiology in Occupational Health, September 7-9, 2011, Oxford, UK (talk).
- Burstyn I**, Beach J, Cherry NM: The comfort in unsurprising results: Bayesian accounting for exposure misclassification and prior expectations in a study of work-related asthma. The Society for Epidemiologic Research (SER), June 23(eve)-26, 2010, Seattle, WA (USA) (poster).
- Burstyn I**, Sithole F, Zwaigenbaum L: Autism Spectrum Disorders, Maternal Characteristics and Obstetric Complications among Singletons Born in Alberta, Canada. The Society for Epidemiologic Research (SER), June 23(eve)-26, 2010, Seattle, WA (USA) (talk).
- Burstyn I**: Measurement error and model specification in determining how duration of tasks affects level of occupational exposure. X2009 The Sixth International Conference on Innovations in Exposure Assessment. Boston, USA, August 17-20, 2009 (poster).
- Liu J, Gustafson P, Cherry NM, **Burstyn I**: Bayesian learning about the extent of exposure misclassification (and odds ratio) in a general-population job-exposure matrix applied in a matched case-referent design. X2009 The Sixth International Conference on Innovations in Exposure Assessment. Boston, USA, August 17-20, 2009 (talk).
- Burstyn I**, Kapur N, Cherry NM: Substance use of pregnant women and early neonatal morbidity from the public health perspective. The Society for Epidemiologic Research (SER), June 23-26, 2009, Anaheim, California (USA). *American Journal of Epidemiology* 2009;169(Suppl):S19 (poster).
- Burstyn I**: Does adjustment for measurement error induce positive bias if there is no true association? The Society for Epidemiologic Research (SER), June 23-26, 2009, Anaheim, California (USA). *American Journal of Epidemiology* 2009;169(Suppl):S42 (talk)
- Liu J, Gustafson P, Cherry NM, **Burstyn I**: Exposure misclassification arising from the application of a general population job-exposure matrix in a matched case-control study: Bayesian adjustment when positive exposure-response association is suspected. The Society for Epidemiologic Research (SER), June 24-27, 2008, Chicago, Illinois, USA; *American Journal of Epidemiology* 2008;167(Suppl):S111 (poster).

- Kim HM, **Burstyn I**: Bayesian method for improving odds ratio estimate under group-based exposure assessment with additive measurement error. The Society for Epidemiologic Research (SER), June 24-27, 2008, Chicago, Illinois, USA; *American Journal of Epidemiology* 2008;167(Suppl):S111 (poster).
- Liu J, Gustafson P, Cherry NM, **Burstyn I**: Exposure misclassification arising from the application of a general population job-exposure matrix in a matched case-control study: Bayesian adjustment when positive exposure-response association is suspected. The 20th EPICOH International Conference on Epidemiology in Occupational Health, June 9-11, 2008, San Jose, Costa Rica (poster).
- Kim HM, **Burstyn I**: Bayesian method for improving odds ratio estimate under group-based exposure assessment with additive measurement error. The 20th EPICOH International Conference on Epidemiology in Occupational Health, June 9-11, 2008, San Jose, Costa Rica (talk).
- Burstyn I**, Kim HM, Cherry NM, Li S, Yasui Y: Impact of measurement errors in cumulative exposure on the evaluation of gene-environment interaction in a case-control study: Direct estimation and Mendelian randomization approaches. The 19th EPICOH International Conference on Epidemiology in Occupational Health, October 9-12, 2007, Banff, Canada (<http://oem.bmj.com/cgi/reprint/64/12/e14>) (talk)
- Kim H-M, Yasui Y, **Burstyn I**: Estimation of parameters in logistic regression models with multiplicative measurement error. 34th Annual Meeting of the Statistical Society of Canada, May 28-31, 2006, the University of Western Ontario (talk)
- Kim H-M, Yasui Y, **Burstyn I**: Estimation of parameters in logistic regression models with multiplicative measurement error. the Second North American Congress of Epidemiology, June 21-24, 2006, Seattle, Washington, USA. *American Journal of Epidemiology* 2006;163(Suppl 11):S154 (talk)
- Burstyn I**, Kim H-M, Kromhout H, Cherry N, Yasui Y: Is there a correlation between variability and level of exposure that biases risk estimates in occupational epidemiology? SER-CSEB meeting, June 27-30, 2005, Toronto, Canada. *American Journal of Epidemiology* 2005;161(Suppl):S87 (poster)
- Kim H-M, Yasui Y, Cherry N, **Burstyn I**: Attenuation in risk estimates in logistic and Cox proportional-hazards models due to group-based exposure assessment strategy. SER-CSEB meeting, June 27-30, 2005, Toronto, Canada. *American Journal of Epidemiology* 2005;161(Suppl):S88 (oral spotlight presentation)
- Burstyn I**, Kim H-M, Kromhout H, Cherry N, Yasui Y: Is there a correlation between variability and level of exposure that biases risk estimates in occupational epidemiology? CARWH, 3rd National Symposium, May 16-17, 2005, Vancouver, Canada (talk)
- Burstyn I**, Kromhout H, Svane O, Langård S, Ahrens W, Kauppinen T, Stücker I, Shaham J, Heederik D, Boffetta P, and the asphalt study group: Fatal ischemic heart disease and exposure to polycyclic aromatic hydrocarbons among asphalt pavers. The 17th International Symposium on Epidemiology in Occupational Health, EPICOH 2004, October 13-16, 2004, Melbourne, Australia. *Occupational and Environmental Medicine* 2004;61:e28: <http://oem.bmjournals.com/cgi/content/full/61/11/e28> (talk)
- Burstyn I**, Talaska G, Kromhout H: Is dermal exposure relevant and its assessment feasible in case-referent study of lung cancer risk among asphalt workers? Conference on Exposure Assessment in a Changing Environment (X2004). June 16-18, 2004, Utrecht, The Netherlands (*Het Tijdschrift voor Toegepaste Arbowedenschap* 2004, suppl.2: p 84). (talk)
- Desranleau J, Cherry NM, Beach J, Senthilselvan A, **Burstyn I**: A database of potential exposures and their determinants for an epidemiological study of health risk due to pesticide use among grain farmers. Conference on Exposure Assessment in a Changing Environment (X2004). June 16-18, 2004, Utrecht, The Netherlands (*Het Tijdschrift voor Toegepaste Arbowedenschap* 2004, suppl.2: p 72). (poster)
- Burstyn I**, Kromhout H: Is there a correlation between variability and level of exposure that should be taken into account in occupational epidemiology? Conference on Exposure Assessment in a Changing Environment (X2004). June 16-18, 2004, Utrecht, The Netherlands (*Het Tijdschrift voor Toegepaste Arbowedenschap* 2004, suppl.2: p 57). (talk)
- Burstyn I**, Boffetta P, Järholm B, Partanen T, Svane O, Langård S, Kauppinen T, Stücker I, Shaham J, Heederik D, Ahrens W, Bergdahl I, Cené S, Hooiveld M, Randem BG, Johansen C, Ferro G, Kromhout H: Risk of fatal industrial accidents and death from other external causes among asphalt workers. CARWH, 2nd National Symposium, October 25-26, 2003, Montreal, Canada. (poster)
- Burstyn I**, Boffetta P, Heederik D, Kromhout H, Partanen T, Svane O, Kauppinen T, Stücker I, on behalf of the Study Group: Mortality from obstructive lung diseases and exposure to polycyclic aromatic hydrocarbons among asphalt workers. The 16th EPICOH Congress on Epidemiology in Occupational Health, September 11-13, 2002, Barcelona, Spain, *La Medicina del Lavoro* 93(5): 480 (2002). (talk)
- Burstyn I**, Boffetta P, Kromhout H, Partanen T, Svane O, Kauppinen T, Stücker I, Frentzel-Beyme R, Langård S, Järholm B, Shaham J, Heikkilä P, Heederik D: Mortality from obstructive lung diseases among asphalt workers. The 12th Conference of the International Society of Exposure Analysis (ISEA) and the 14th Conference of the International Society for Environmental Epidemiology (ISEE), August 11-15, 2002, Vancouver, Canada, *Epidemiology* 13(4):945 (2002). (poster)
- Burstyn I**, Boffetta P, Kauppinen T, Svane O, Partanen T, Stücker I, Frentzel-Beyme R, Heederik D, Langård S, Järholm B, Shaham J, Heikkilä P, Kromhout H: Performance of different exposure assessment approaches in a

study of bitumen fume exposure and lung cancer mortality. The 12th Conference of the International Society of Exposure Analysis (ISEA) and the 14th Conference of the International Society for Environmental Epidemiology (ISEE), August 11-15, 2002, Vancouver, Canada, *Epidemiology* 13(4): 810 (2002). (poster)

- Burstyn I**, Kromhout H, van Duivenboden C, Spee T: A database of exposure to solvents among commercial painters in the Netherlands, aimed to support retrospective exposure assessment. The 5th International Occupational Hygiene Association's International Scientific Conference, June 10-14, 2002, Bergen, Norway. (talk) Extended abstract published in *Het Tijdschrift voor toegepaste Arbowetenschap* (2003-02) supplement 2.
- Burstyn I**, Kromhout H, Ritchie P, Cherrie JW: Objectives, requirements and overall structure of an industry-wide occupational exposure database. 11th Symposium of Dutch Occupational Hygiene Society, March 29, 2002, Rotterdam, the Netherlands. (talk)
- Burstyn I**, Ferrari P, Wegh H, Heederik D, Kromhout H: Characterizing worker exposure to bitumen during hot mix paving and asphalt mixing operations. 11th Symposium of Dutch Occupational Hygiene Society, March 28, 2002, Rotterdam, the Netherlands. (talk)
- Burstyn I**, Boffetta P, Kauppinen T, Heikkilä P, Svane O, Partanen P, Stücker I, Frentzel-Beyme R, Arhens W, Merzenich H, Heederik D, Hooiveld M, Langård S, Randem B, Järholm B, Bergdahl I, Shaham J, Ribak J, Kromhout H: Estimating exposures in asphalt industry for an international epidemiological cohort study of cancer risk. Conference on Exposure Assessment in Epidemiology and Practice (X2001). June 10-13, 2001, Göteborg, Sweden. (poster)
- Burstyn I**, Boffetta P, Burr G, Cenni A, Knecht U, Sciarra G, Kromhout H: Validity of empirical models of exposure in asphalt paving. Conference on Exposure Assessment in Epidemiology and Practice (X2001). June 10-13, 2001, Göteborg, Sweden. (talk)
- Burstyn I**, Boffetta P, Burr G, Cenni A, Knecht U, Sciarra G, Kromhout H: Validity of empirical models of exposure in asphalt paving. Dutch Occupational Hygiene Society Conference 2001, March 31, 2001, Rotterdam, the Netherlands. (talk)
- Burstyn I** and Kromhout H: Are all the members of a road paving crew uniformly exposed to bitumen fume, organic vapour and benzo(a)pyrene? The 4th International Scientific Conference of the International Occupational Hygiene Association. July 2000, Cairns, Australia. (talk)
- Burstyn I**, Kromhout H, Cruise P, Boffetta P, et al.: Designing an international industrial hygiene database for a multicentric epidemiological study. International Symposium on Occupational Databases and Their Application for the Next Millennium. November 1999, London, UK. (talk)
- Burstyn I**, Kromhout H, Cruise P, Boffetta P: Industrial hygiene database of exposures among workers in the European asphalt industry. 1999 American Industrial Hygiene Association Conference and Exposition, Abstract 447; Toronto, Canada. (poster)
- Burstyn I**, Kromhout H, Boffetta P, et al.: Use of existing exposure data to assess the intensity of exposure to coal tar and bitumen among European asphalt workers. The British Occupational Hygiene Society, Occupational Hygiene '99 (Conference), Abstract, p. 29; 13-15 April 1999, London, UK. (talk)
- Burstyn I**, Teschke K, Bartlett K, Kennedy S: Predictive models of wheat antigen and α -amylase exposure levels in bakeries. 1997 American Thoracic Society Conference, Abstract, p.A136; San Francisco, USA. (poster)
- Burstyn I**, Teschke K, Bartlett K, Kennedy S: Exposure levels and determinants of flour dust exposure in bakeries. 1997 American Industrial Hygiene Association Conference and Exposition, Abstract 270, p 62. Dallas, Texas, USA. (talk)

Books, book chapters and reports (14 in total)

- Burstyn I**: Prediction of exceedance of thresholds by short-term benzene concentration from long-term integrated measurements in Corpus Cristi, Texas. Consulting project for the US Environmental Protection Agency (Order number EP-16-C-000142), December 2017.
- Burstyn I**: Peering through the mist: What does the chemistry of contaminants in electronic cigarettes tell us about health risks? July - August 2013, Drexel University School of Public Health, Philadelphia, PA (<http://publichealth.drexel.edu/SiteData/docs/ms08/f90349264250e603/ms08.pdf>); with discussion at <http://antithrlies.com/2013/08/08/breaking-news-new-study-shows-no-risk-from-e-cigarette-contaminants/> (>30,000 people read *press release* of the study in the first week alone, example of media coverage is <http://news.msn.com/rumors/rumor-e-cigarettes-are-as-harmful-as-the-real-things>).
- Frank AL, Gross-Davis CA, **Burstyn I**, Heavner K, Klotz J: Investigation of a Polycythemia Vera, Essential Thrombocythemia and Primary Myelofibrosis Cluster in Northeast Pennsylvania: A Case-Control Study. Final Report to Agency for Toxic Disease Registry. Drexel University School of Public Health, Department of Environmental and Occupational Health, August 29, 2013.
- Gustafson P, **Burstyn I**: Bayesian inference of gene-environment interaction from incomplete data: What happens when information on environment is disjoint from data on gene and disease? The University of British Columbia, Department of Statistics, Technical Report #252, September 2009 (<http://www.stat.ubc.ca/Research/TechReports/tr/252.pdf>)

- Boffetta P, Olsson A, Agostini M, Hansen J, Funch Lassen C, Johansen C, Kjaerheim K, Langard S, Stucker I, Ahrens W, Behrens T, Lindbohm M-L, Heikkila P, Heederik D, Portengen L, Shaham J, Ferro G, de Vocht F, **Burstyn I**, Kromhout H: A case-control study of lung cancer nested in a cohort of European asphalt workers. International Agency for Research on Cancer, Lyon, July 1, 2009 (<http://www.iarc.fr/en/research-groups/LCA/AsphaltReport.pdf>)
- Burstyn I**, Wild TC: Best practices for occupational health and safety officer work inspections. Report to the government of Alberta, University of Alberta, Edmonton, September 30, 2008
- Burstyn I**, Cherry N, Armstrong B, Deddens JA, Kim H-M, Yasui Y: The effects on bias in risk estimates of correlation between exposure level and its error variance in group-based exposure assessment. Report on CCERN-funded project, University of Alberta, Edmonton, May 31, 2005.
- Kromhout H, van Tongeren M, **Burstyn I**: Design of exposure measurement surveys and their statistical analyses. In: Gardiner & Harrington, editors. *Occupational Hygiene*, 3rd edition. Oxford: Blackwell Publishing. Chapter 11 (June 14, 2005) ISBN: 1405106212, pp 124-44.
- Cherry N, Senthilselvan A, Beach J, **Burstyn I**: Pesticide use and health of farmers. Final report to Alberta Heritage Foundation for Medical Research, University of Alberta, Edmonton, September 2004.
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- Kromhout H, van Tongeren M, **Burstyn I**: Chapter 4 Ontwerpen van meetprogramma's voor blootstelling aan chemische stoffen en statistische analyse van meetresultaten. In van Alphen, W.J.T., Houba, R., Pennekamp H.P., Schreibers K.B.J., Simonis M.H.G.M., editors, *Handboek Arbeidshygiëne 2004*. Alphen aan den Rijn: Kluwer, pp. 85-105. (in Dutch)
- Burstyn I**: *Exposure assessment for a multicentric cohort study of cancer risk among European asphalt workers*. Ph.D. thesis, Utrecht University. CIP-Data Koninklijke Bibliotheek, Den Haag, the Netherlands; ISBN 90-393-2700-9; 2001 (<http://www.library.uu.nl/digiarchief/dip/diss/1957878/inhoud.htm>).
- Boffetta P, **Burstyn I**, Partanen T, Kromhout H, Svane O, Langård S, Järholm B, Frenzel-Beyme R, Kauppinen T, Stucker I, Shaham J, Heederik D, Ahrens W, Bergdahl I, Cené S, Ferro G, Heikkilä P, Hooiveld M, Johansen C, Randem B, Schill W: *IARC epidemiological study of cancer mortality among European asphalt workers*. IARC Internal Report No. 01/003. International Agency for Research on Cancer, Lyon, France; October 2001.
- Burstyn I**: *Determinants of flour dust exposure in bakeries*. Master's thesis. University of British Columbia Library, Special Collections Division, Vancouver, Canada; 1996.

Research funds requested (*) or active

Interactions between environmental factors, low-penetrant genetic susceptibilities, and colorectal cancer risk in Atlantic Canada*

Source: Nova Scotia Health Research Foundation (Establishment Grant)
 PI: Derrick Lee
 Dates: 2019-2022
 CND: \$140,000

Towards prevention of HIV among vulnerable and stigmatized populations using geospatial data

Source: NIH/NIAID (1K01AI14335601)
 PI: Neal Goldstein
 Dates: 2019-2024
 CND: \$130,000

Development of an ultra-low-cost calibration system for measurement of synthetic fibres

Source: National Institute for Occupational Safety and Health ERC
 PI: Boris Reiss
 Dates: 2018-2019
 USD: \$15,000

Research funds formerly held

Opening the doors for diverse populations to health disparities research

Source: The National Institute on Minority Health and Health Disparities (NIMHD) (R25)
 PI: Warren Hilton
 Dates: 2011-2016
 USD: 1,615,125

Regulation of CRTh2 and its role in allergic disease

Source: Canadian Institutes of Health Research
 PI: Lisa Cameron
 Dates: 2011-2016
 CDN: 562,993

Early life environmental exposures and autism in an existing Swedish birth cohort

Source: Autism Speaks
 PI: Brian K Lee
 Dates: 2012-2015
 USD: 448,423

Mapping perceptions of environmental health risk: A comparison of three Philadelphia communities

Source: The Social Science Research Fund (intramural Drexel University award)
 PI: Alison Kenner
 Dates: 2013-2014
 USD: 11,000

Validating lichen indices as public-health indicators using data from the National Health and Nutrition Examination Survey (NHANES)

Source: The USDA Forest Service
 PI: Yvonne Michael & **Igor Burstyn**
 Dates: 06/2013 - 06/2014
 USD: 19,390

Prenatal PBDE exposure and ASD-related developmental outcomes in the EARLI cohort

Source: Autism Speaks, EEARN

PI: Craig J. Newschaffer
Dates: 01/2013 - 12/2014
USD: 300,000

Epidemiological and Biostatistical Challenges in the Early Autism Risk Longitudinal Investigation: Errors in Exposures and Efficient use of Pooling of Bio-specimens in Exposure Assessment

Source: Autism Science Foundation
PI: Craig J. Newschaffer & **Igor Burstyn**
Dates: 2012-2013
USD: 35,000

MRI: Acquisition of a Soot-Particle Aerosol Mass Spectrometer, for the Measurement of Particulate Chemical Composition

Source: National Science Foundation (Major Research Instrumentation Initiative)
PI: Peter F. De Carlo, co-PI: **Igor Burstyn**
Dates: 2012-2013
USD: 467,925

Smoke-free housing evaluation

Source: Community Transformation Grant, CDC; sub-contract from Philadelphia Department of Public Health
PI: Ann C Klassen
Dates: 2012-2013

Occupational exposures throughout life course and late life lower-body bone health

Source: Faculty Research Development Grants 2011-12, School of Public Health, Dept Epi & Biostats
Co-PIs: Yvonne L. Michael & **Igor Burstyn**
Dates: 2011-12
USD: 5,000

Advanced data mining techniques for predicting exposure to workplace hazards

Source: 2011 Cross-Disciplinary Mini-Grant Competition (Drexel University (DECI) competition)
PI: **Igor Burstyn**, Yuan An, Tony (X.) Hu
Dates: 2011-2012
USD: 6,000

Early autism risk longitudinal investigation (EARLI) network (grant # 1 R01ES016443)

Source: National Institute of Environmental Health Sciences
PI: Craig J. Newschaffer
Dates: 04/01/08 – 03/31/2013 (joined project as co-investigator in 2010)
USD: 14,396,239

Study of health outcomes in children with autism and their families (contract # HHS-N-271-2010-00033-C)

Source: National Institute Mental Health
Project Director: Taylor Dennen, the Lewin Group
PI at Drexel: Craig J. Newschaffer
Dates: 9/20/2010 - 9/19/2012
USD: 4,029,424 (Drexel Sub - \$362,452)

Measuring traffic exposure and assessing environmental equity

Source: Cancer Research Society (Montreal)
PI: Kristan Aronson
Dates: 2010-2012
CDN: 119,740

Using statistical modeling and machine learning approaches to uncover the latent decision rules used in experts' assessment of occupational exposure from questionnaires

Source: Intramural funding/concept, National Cancer Institute, USA
PI: Melissa Friesen
Dates: 2010-2013

Philadelphia neighbourhoods, maternal obesity, and birth outcomes in a hospital-based population

Source: Faculty Research Development Grants 2010-11, School of Public Health, Dept Epi & Biostat
PI: Nora L Lee
Dates: 2010-11
USD: 5,000

Welding and unborn child

Source: WorkSafeBC
PI: Nicola Cherry
Dates: 2010
CDN: 29,958

Maternal exposure to polycyclic aromatic hydrocarbons and small-for-gestational-age birth

Source: Canadian Institutes of Health Research: National Strategy on Patient Oriented Research (Priority Announcement Grant New)
PI: **Igor Burstyn**
Dates: 2009
CDN: 27,950

Mental ill-health at the workplace: a proposal for database linkage

Source: Institute of Health Economic
PI: Nicola Cherry
Dates: 2008-2009
CDN: 47,500

Maternal exposure to common pollutants and fetal growth restriction: consequences and interventions

Source: Alberta Heritage Foundation for Medical Research (Population Health Investigator Award renewal)
PI: **Igor Burstyn**
Dates: 2008-2011 (terminated in 2009 due to loss of eligibility upon relocation to USA)
CDN: \$333,000 (salary support), \$30,000 (research prize), \$15,000 (research allowance)

Integrated methodology for assessment of human exposure to air pollutants

Source: The National Sciences and Engineering Research Council
PI: **Igor Burstyn**
Dates: 2006-2011 (terminated in 2009 due to loss of eligibility upon relocation to USA)
CDN: 80,000

A pilot study to demonstrate the feasibility of a pan-Canadian study of gene-environment interactions in occupational asthma

Source: AllerGen Inc.: Allergy, genes, and environment network
PI: Nicola Cherry
Dates: 2008-2009
CDN: 50,025

How accurate is self-reported smoking in antenatal risk assessment?

Source: University (of Alberta) Hospital Foundation
PI: **Igor Burstyn**
Dates: 2007-2008
CDN: 14,046

Best practices for occupational health and safety officer work inspections

Source: Alberta Human Resources and Employment
PI: **Igor Burstyn**
Dates: 2006-2008
CDN: 152,074

Measurement error in cumulative exposure in case-control studies of gene-environment interaction

Source: Canadian Institutes of Health Research (Pilot Project Grant - Population and Public Health Research Methods and Tools Competition)
PI: **Igor Burstyn** and Yutaka Yasui
Dates: 2006-2008
CDN: 99,800

Visiting lecturer grant to invite Dr. J Douwes to the University of Alberta

Source: Alberta Heritage Foundation for Medical Research

PI: **Igor Burstyn**

Dates: 2006

CDN: 1,588

Emerging contaminants as determinants of maternal hypothyroxinaemia in Edmonton, Alberta

Source: University (of Alberta) Hospital Foundation

PI: Jonathan Martin

Dates: 2006

CDN: 24,449

Use of database linkage for the surveillance of occupational asthma

Source: AllerGen Inc.: Allergy, genes, and environment network

PI: Nicola Cherry

Dates: 2005-2006

CDN: 76,732

Development and application in Alberta of new exposure assessment methods for environmental epidemiology

Source: Alberta Heritage Foundation for Medical Research

PI: **Igor Burstyn**

Dates: 2005-2008

CDN: 180,000 (establishment grant) + 40,000 (major equipment grant) = 220,000

A case-control study nested in the IARC multicentric cohort of European asphalt workers

Source: Industrial associations representing European asphalt industry

PI: Paolo Boffetta

Dates: 2005-05/2008

€ 2,196,590

Molecular epidemiology of breast cancer

Source: Canadian Institutes of Health Research/ Canadian Breast Cancer Research Alliance

PI: Kristan Aronson

Dates: 2004-2009

CDN: 1,244,986

The effects on bias in risk estimates of correlation between exposure level and its error variance in group-based exposure assessment

Source: Canadian Cancer Etiology Research Network

PI: **Igor Burstyn**

Dates: February 2004 - May 2005

CDN: 55,645

Elaboration of generic models for predicting variance components of occupational exposure frequency distributions

Source: Canadian Institutes of Health Research (Research Allowance from CIHR New Investigator Award)

PI: **Igor Burstyn**

Dates: December 2003 - February 2007

CDN: 50,000

Exploratory analysis of exposure measurements in support of an epidemiological study of potential health effects of emissions from oil and natural gas field facilities

Source: The Western Interprovincial Scientific Studies Association

PI: **Igor Burstyn**

Dates: December 2003-June 2005

CDN: 145,105

Establish the framework and operating system for a CEFIC database (CEMAS) (extension of the previous project on CEFIC-supported exposure database)

Source: The European Chemical Industry Council (CEFIC)

PI: John Cherrie

Dates: January-September 2003

Extension of the project on improved exposure assessment for prospective cohort studies and exposure control in the European rubber manufacturing industry to Poland

Source: European Commission: Research Directorate-General; Directorate E: QoL-2002-NAS call for proposals

PI: Hans Kromhout

Dates: December 2002 - June 2004

Improved exposure assessment for prospective cohort studies and exposure control in the European rubber manufacturing industry (EXASRUB)

Source: European Commission: Research Directorate-General; Directorate E (Contract No. QLK4-CT-2001-00160)

PI: Hans Kromhout

Dates: January 2002 - June 2004

Establishing the framework and operating system for a CEFIC-supported exposure database

Source: The European Chemical Industry Council (CEFIC)

PI: John Cherrie

Dates: January 2001 - July 2002

Teaching & supervisory experience

Masters of Public Health (course-based)

Drexel University School of Public Health:

Advisor or preceptor for Community-Based Masters Projects: 5 students in 2010-11 (Joshua Gluek publishes results in a peer reviewed journal; resulting poster wins award at an international conference, finalist for the Outstanding CBMP Award), 2 students in 2011-12, 1 student 2012-13, 4 students in 2013-14 (Allison Insley wins the Outstanding CBMP Award and submits her work for publication, Brittany Rosen publishes results in a peer reviewed journal), 2 students in 2014-15, 2 students in 2015-16 (Kathryn McNamara wins Society of Women Environmental Professionals Scholarship [www.swepweb.com], presents her work at a national conference AIHCe2016 [<http://aihce2016.org/>], and wins Outstanding CBMP Award).

University of Alberta: Advisor to 7 Masters of Public Health students specializing in occupational health

Masters of Science (thesis-based) (co-supervisor or supervisor)

Student	Institution	Dates	Title	Area	Primary supervisor
X. You	University of Alberta	2004-2006	Determinants of Airborne Concentrations of Volatile Organic Compounds in Rural Areas of Western Canada	Environmental Sciences	Igor Burstyn
S. Fan	University of Alberta	2005-2006	Spatiotemporal Modeling of Ambient Sulfur Dioxide Concentrations in Rural Western Canada	Environmental Sciences	Igor Burstyn
M. Hamm	University of Alberta	2006-2008	Maternal Hypothyroxinaemia, Fetal Growth Restriction, and Early Neonatal Morbidity	Epidemiology	Igor Burstyn
N. Kapur	University of Alberta	2006-2009*	Effect of Maternal Smoking during Pregnancy on Early Neonatal Morbidity	Epidemiology	Igor Burstyn
E. Chan	University of Alberta	2006-2010	Perfluorinated Acids as Determinants of Maternal Hypothyroxinaemia	Epidemiology & Environmental Sciences	J. W. Martin
K. Griffith	Drexel University	2010-2011	Comparison of Methods for Quantification of Surface Contamination with Microbial Spores in an Office Building	Environmental Engineering	P. Gurian
J. R. Schouten	University of Alberta	2006-2011	Biological Factors in the Etiology of Pulmonary Sarcoidosis	Epidemiology	J. Beach

* withdrew to pursue clinical fellowship award in Australia

Doctoral students (co-supervisor or supervisor)

Student	Institution	Dates	Title	Area	Primary supervisor
Nicole Gidaya	Drexel University	2009-2013	The effect of in utero exposure on B2AR agonists and SSRIs on the risk for autism spectrum disorders.	Epidemiology	Craig Newschaffer
Carol Ann Gross-Davis	Drexel University	2009-2014	Environmental etiology of polycythemia vera, essential thrombocythemia and myelofibrosis: A case-control study on northeast Pennsylvania.	Epidemiology	Craig Newschaffer
Li Xing	University of British Columbia	2008-2014	Model and inference issues related to exposure-disease relationships.	Statistics	Paul Gustafson
Alison Singer	John Hopkins University	2012-2015	Parental exposure to occupational to asthmagens and risk of autism spectrum disorders.	Epidemiology	Danielle Fallin
Bo Y. Park	Drexel University	2012-2015	Prenatal fetal testosterone and early autism spectrum disorder related neurodevelopmental outcomes.	Epidemiology	Craig Newschaffer
Hao Luo	University of British Columbia	2011-2016	The gene-environment independence assumption in the analysis of case-control data	Statistics	Paul Gustafson
Derrick Lee	University of British Columbia	2011-2016	Occupational exposure to polycyclic aromatic hydrocarbons, breast cancer risk, and interactions with genetic variants	Epidemiology	John Spinelli & Igor Burstyn

Post-doctoral fellows

1. Hyang-Mi Kim, PhD (2004-2007) Co-supervisor: Dr. Yutaka Yasui
 Topic of research: Measurement error and group-based exposure assessment in epidemiology
 Now: practicing biostatistician
2. Fortune Sithole, PhD (2007)
 Topics of research: Epidemiology of autism; predictors of repeated WCB claims
 Now: Associate Dean for Clinical Affairs and Professional Opportunities/ Associate Professor, Ross University
3. Juxin Liu, PhD (2007-2008) Co-supervisor: Dr. Paul Gustafson
 Topics of research: Bayesian approach to exposure misclassification in matched case-control studies that use job-exposure matrix; misspecified models in gene-environment interaction epidemiology
 Now: Associate Professor at the University of Saskatchewan, tenured
4. Anna Leavey, PhD (2010-2011)
 Topics of research: Environmental epidemiology and exposure assessment
 Now: Post-doctoral fellow at Washington University in St. Louis
5. Michelle Kondo, PhD (2011-2013)
 Topics of research: Exposure assessment to traffic-related air pollution via community-based participatory research
 Now: USDA Forest Service, Philadelphia, PA
6. Karyn Heavner, PhD (2008-2010, 2012-2013)
 Topics of research 1: Epidemiological methods and application of epidemiological results to public health policy
 Topics of research 2: Evaluating epidemiological and biostatistical challenges in the EARLI investigation
 Now: Assistant Teaching Professor, Zuckerberg College of Health Sciences, University of Massachusetts at Lowell

Junior faculty career development

Rachael M. Jones

Associate Professor (promoted and tenured in 2016 at University of Illinois Chicago)
Currently Associated Professor at Department of Family and Preventive Medicine, the University of Utah
 Co-mentor on 1K01OH010537-01 from the National Institute for Occupational Safety and Health (CDC/NIOSH)
Statistical Analysis of Occupational Exposure Data
 Award Period: 4/2014-3/2017; *ongoing career mentoring by mutual consent*

Tran Huynh

Assistant Professor
 Environmental and Occupational Health, Dornsife School of Public Health, Drexel University
 Co-mentor on K01OH011191-01 from the National Institute for Occupational Safety and Health (CDC/NIOSH)
Health and Safety Training Module for Vietnamese Nail Salon Workers: A Feasibility Study
 Award Period: 9/2016-8/2019; *ongoing career mentoring by mutual consent*

Boris Reiss, PhD, CIH

Assistant Professor
 The University of Arizona
 Mel & Enid Zuckerman College of Public Health
Ongoing career mentoring by mutual consent

Classroom teaching at Drexel University, as primary instructor*	
EOH625 (PBHL647): Occupational and environmental epidemiology* (cross-listed as a core doctoral course from fall 2019)	2011-19
EOH725 (course I created: seminar in environmental epidemiology) (cross-listed as a core doctoral course from fall 2019)	--
Directed reading courses (doctoral level *; masters level **)	
Risk and decision analysis (PBHL503)**	2015
Exposure measurement error in epidemiology (PBHL822)*	2013
Uncertainty in environmental exposure models (PBHL822)*	2011
Gene-environment interactions (PBHL822)*	2010
Guest lecturer	
PBHL 835 (proposal writing seminar)	2017-19
PBHL830 (advanced epidemiology: missing data)	2019
PBHL830 (advanced epidemiology: measurement error)	2012-19
PBHL822 (advanced epidemiology: Bayesian methods for measurement error)	2014-15
PBHL638 (perinatal epidemiology)	2010-16
PBHL640 (introduction to environmental health)	2010-15
PBHL641 (hazard assessment)	2010-13
PBHL 401 (epidemiology in public health)	2012
UNIV241 (the great works symposium: social determinants of health)	2012
PBHL643 (occupational and environmental health and toxicology)	2010
Classroom teaching at the University of Alberta, as primary instructor	
Public Health Sciences 521: Occupational hygiene	2003-10
Directed reading: Environmental and occupational exposure and outcome of low-birth weight and/or small for gestational age	2007
Directed reading: Health and safety systems	2006
Directed reading: Exposure assessment for surveillance of occupational asthma	2006
Classroom teaching at other institutions	
Undergraduate course in biological toxicology	

Utrecht University	Fall, 2002
Post-doctoral course in occupational toxicology	
Catholic University of Nijmegen	September 9-20, 2002
6 th Advanced course on occupational and environmental epidemiology: Principles of exposure assessment	
Utrecht University	June 3 - 7, 2002
5 th Advanced course on occupational and environmental epidemiology: Principles of exposure assessment	
Utrecht University and the Netherlands School of Public Health	July 2 - 6, 2001
Master of public health course: Occupational and environmental health: Principles, epidemiology and practice	
The Netherlands School of Public Health	February 9, 2001
M.Sc.-level courses in occupational hygiene	
The University of British Columbia, Canada	1996 and 1997
<ul style="list-style-type: none"> ▪ Taught statistics and research methods; created lectures, handouts, assignments and examinations; graded assignments, papers and examinations. Dr. Paul Demers taught the second part of the course that dealt with basic occupational epidemiology and exposure assessment for occupational epidemiology. ▪ Prepared and delivered four lectures on sampling strategies; compiled reading list; designed, administered and graded an assignment. Course coordinator and primary instructor: Dr. Kay Teschke. 	

Professional activities, memberships and volunteer experience

Reviewer: *The Annals of Occupational Hygiene, American Journal of Epidemiology, Epidemiology, American Industrial Hygiene Association Journal, International Journal of Epidemiology, Occupational and Environmental Medicine, Het Tijdschrift voor Toegepaste Arboretenschap, the Journal of Occupational and Environmental Hygiene, Regulatory Toxicology and Pharmacology, Chemosphere, Journal of Neurology, Neurosurgery and Psychiatry, the International Journal of Environment and Pollution, Environmental Pollution, Journal of Environmental Management, BMC Public Health, Journal of Occupational Health, Epidemiologic Perspectives & Innovations, Pharmacogenetics and Genomics, The Journal of Exposure Analysis and Environmental Epidemiology, Autism: International Journal of Research and Practice, Canadian Medical Association Journal, American Journal of Industrial Medicine, International Journal of Environmental Research and Public Health, Environment International, Environmental Health Perspectives, Environmental Health (BMC), Cancer Epidemiology, Drug and Alcohol Dependence, Journal of Hazardous Materials, the American Journal of Psychiatry, Bioelectromagnetics, Autism Research, PLOS One, Annals of Epidemiology*

Service on editorial boards:

Editorial Board Member: <i>International Journal of Environmental Research and Public Health</i>	2019-2021
Editorial Review Board: <i>Journal of Occupational & Environmental Hygiene</i>	2012-now
Member of The International Advisory Board for journal <i>The Annals of Occupational Hygiene</i> (re-named <i>Annals of Work Exposure and Health</i> in 2017)	2010-now
Lead editor & creator of Topical Collection within of <i>International Journal of Environmental Research and Public Health</i> on "Methodological Innovations and Reflections" (http://www.mdpi.com/journal/ijerph/special_issues/methodological)	2017-now
Guest editor (with G Luta) & creator of the special issue of <i>International Journal of Environmental Research and Public Health</i> on "Methodological Innovations and Reflections" (http://www.mdpi.com/journal/ijerph/special_issues/methodological_innovations)	2014-2016
Guest editor of the special issue of <i>International Journal of Environmental Research and Public Health</i> on "Maternal and Child Health" (http://www.mdpi.com/journal/ijerph/special_issues/maternal_child_health)	2011-2014
Guest editor of the special issue of <i>the American Journal of Industrial Medicine</i> on the cohort study of European asphalt workers	2003

Community Service

The Consumer Advocates for Smoke-free Alternatives Association (http://casaa.org/)	Board of Directors	2014-2016
Professional societies and advisory groups:		
Beryllium workers' study international advisory group		2015
Science Advisor to <i>The Consumer Advocates for Smoke-free Alternatives Association</i>		2014-2016
Member of Expert (Advisory) Panel for the <i>Styrene Project</i> , Aarhus University Hospital (Denmark)		2012-now
Environmental Epidemiology of Autism Risks Network (Autism Speaks & National Institute of Environmental Health Sciences, NIEHS)		2010-now
Member of EPICOH (Epidemiology in Occupational Health) Management Group		2009-now
<i>Founding member</i> of the International Society for Children's Health and the Environment (ISCHE)		2006-now
International Commission on Occupational Health		2005-now
The Canadian Cancer Etiology Research Network		2003-now
The Canadian Association for Research on Work and Health		2003-now
American Industrial Hygiene Association (including Alberta local section)		2003-2009
British Occupational Hygiene Society		2003-2009
Canadian Society for Epidemiology and Biostatistics		2005-2006
International Society of Exposure Analysis		2003-2006
International Society of Environmental Epidemiology		2003-2006
American Conference of Governmental Industrial Hygienists		1999-2000
External committees:		
The International Conference on Epidemiology in Occupational Health, (EPICOH 2017) Edinburgh, The UK, 28-31 August 2017, the international scientific committee		2016-2017
The 8th International Conference on the Science of Exposure Assessment in Epidemiology and Practice (X2016), the scientific committee		2015-2016
The 10 th International Occupational Hygiene Association Conference, London (http://www.ioha2015.org/), the scientific committee		2014
The United States Environmental Protection Agency, the peer reviewer for the funding announcement <i>Air Pollution Monitoring for Communities – K1</i>		2014
Health and Environmental Sciences Institute (http://www.hesiglobal.org/i4a/pages/index.cfm?pageid=1): Evaluating Causality in Epidemiologic Studies, <i>subcommittee member</i>		2012-2013
The 23th International Conference on Epidemiology in Occupational Health, (EPICOH 2013) Utrecht, The Netherlands, 18-21 June 2013, the scientific committee		2012-2013
The 24 th Annual Conference of International Society of Environmental Epidemiology (ISEE2012), August 24-30, Columbia, SC, USA; <i>co-chair of session</i> "Biomarkers of Exposure" (http://saeu.sc.edu/reg/isee2012/index.php)		2012
The Canadian Institutes of Health Research (CIHR), The Knowledge Translation Research Committee, <i>external reviewer</i>		2012
X2012, The 7th International Conference on the Science of Exposure Assessment, 2-5 July 2012, the Royal College of Physicians in Edinburgh, UK: the scientific committee; <i>chair of the session</i> on "Statistical Methods" (http://www.x2012.org/)		2011-2012
22th International Conference on Epidemiology in Occupational Health (EPICOH2012), Oxford, UK, the scientific committee (http://epicohoxford2011.org.uk); <i>chaired</i> two sessions at the conference.		2010-2011
National Research Foundation (Republic of South Africa) <i>ad hoc</i> reviewer		2011
Examiner, MMedVet Thesis: <i>Cadmium and lead concentrations in livers and kidneys of cattle slaughtered at Grootfontein Abattoir in Namibia</i> by Emmanuel Muchimbidziki Midzi, Department of Paraclinical Sciences, Section: Veterinary Public Health, University of Pretoria		2011
Examiner, M. Sc. Thesis: <i>Factors affecting the age at diagnosis of autism spectrum disorders in Nova Scotia</i> by Priscilla Frenette, Department of Community Health and, Epidemiology, Dalhousie University		2010
WCB Manitoba, reviewer of research proposal		2009
Agence Nationale de la Recherche (France), <i>ad hoc</i> reviewer		2009

X2009 The Sixth International Conference on Innovations in Exposure Assessment in Occupational Epidemiology and Hygiene (http://www.x2009.org/); August 17-20, 2009, Harvard University, Boston , MA, USA: scientific committee	2008-2009
20th International Conference on Epidemiology in Occupational Health: abstract reviewer, scientific committee	2008
The National Science Foundation (USA), <i>ad hoc</i> reviewer	2008
19th International Conference on Epidemiology in Occupational Health: co-chair of organizing committee, member of the scientific committee (http://uofacc.gobigevent.com/epicoh2007)	2006-2007
Canadian Institutes of Health Research "Public, Community and Population Health A" Grants Committee, committee member	2003-2006
WSIB research grant competition, external reviewer	2006
Natural Sciences and Engineering Research Council of Canada: Collaborative Health Research Project (CHRP) grant external reviewer	2006
X2004 Conference, Utrecht University, The Netherlands: the scientific committee (http://www.iras.uu.nl/X2004)	2003-2004
School and Departmental committees:	
<i>Drexel University</i>	
Master of Science on Environmental and Occupational Health Oversight Committee (inaugural Chair)	2018-2021
MPH Admission Committee (School of Public Health); <i>Chair</i> of the committee as of March 2016	2015-now
An <i>ad-hoc</i> committee to review the DSPH nominations for the 2018 Graduate College Student Awards	2018
<i>Mid-term review of tenure-track faculty:</i>	
Mentor for Dr Ghassan Hamra (exp assessment/epi, Dept Occupational & Environmental Health)	2016
Dr Loni Philip Tabb (statistician, Dept Epidemiology and Biostatistics)*	2013
Dr Brian Lee (epidemiologist, Dept Epidemiology and Biostatistics)*	2012
Dr Anneclaire de Roos (epidemiologist, Dept Occupational & Environmental Health)*	2014
	* tenured
Appointment, Promotion, and Tenure Committee, standing (School of Public Health)	2014-2017
Appointment, Promotion, and Tenure Committee, <i>ad hoc</i> (AJ Drexel Autism Institute)	2019-2020
Selection Committee for the Outstanding CBMP Award	2010-2014
The Executive Committee of the Faculty of the School of Public Health (<i>chair</i> of the sub-committee on “physical space” (2012-09/2014) & <i>member</i> of the committee from 09/2014; <i>member</i> of the department chair’s review taskforce (2013); <i>chair</i> of working group on “faculty and chair evaluation (2014))	2011-2015
Institute for Healthcare Informatics (http://www.ischool.drexel.edu/IHI/)	2010-2015
<i>Ad hoc</i> Committee on Research (School of Public Health)	2012-2015
Search Committee the Dean of the School of Public Health (<i>successful</i>)	2012-2013
Drexel Engineering Cities Initiative (http://www.drexel.edu/cities/)	2011-2012
University Planning: Research Cyber-Infrastructure Committee	2011-2013
Director of Research, Department of Environmental & Occupational Health	2010-2013
Drexel University Faculty Senate, Committee on Research and Scholarly Activity	2010-2013
Faculty Search & Selection Committees in Dept. of Environmental & Occupational Health:	
■ Associate Professor, in epidemiology and risk assessment (<i>successful</i>)	2010-2012
■ Assistant Professor, in injury (<i>cancelled</i>)	2012-2014
■ Chair of committee, Assistant/Associate Professor, School-wide cluster hire in urban health (<i>successful</i>)	2014
Fulbright Campus Review Committee	2011-2013
Study Group: New Faculty/New Ideas (under the Provost’s office)	2011
School of Public Health, Grand Rounds Committee	2010-2011
<i>Department of Public Health Sciences, University of Alberta</i>	
Acting Chair, Computer Committee	2006

Resume of Igor Burstyn

Coordinator of Grand Rounds	2005-2006
Search and Selection Committee for Assistant Professor in Environmental Health	2003-2004
Doctoral Committee	2003-2006
Computer Committee	2003-2006