Richard J. O'Connor Curriculum Vitae

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Employment Professor of Oncology November 2015–current

Member, Population Sciences Program

Associate Professor of Oncology May 2010–October 2015

Associate Member, Population Sciences Program

Assistant Professor of Oncology March 2007–May 2010

Assistant Member, Cancer Prevention Program

Affiliate Member January 2006–March 2007

Postdoctoral Fellow July 2004–December 2005

Department of Health Behavior, Division of Cancer Prevention and Population Sciences Roswell Park Comprehensive Cancer Center [formerly Roswell Park Cancer Institute], Buffalo,

NY

Research Assistant August 1999 – August 2004

Department of Biobehavioral Health, College of Health and Human Development, Pennsylvania State University, University Park, PA

Research Associate May – August 1999

The Advisory Board Company, Washington, DC

Academic Profe **Appointments** *Reap*

Professor, Cancer Sciences, Roswell Park Graduate Division, University at Buffalo.

Reappointment with Distinction, 2015.

Adjunct Professor, Community Health and Health Behavior, School of Public Health and Health

Professions, University at Buffalo

Research Professor, Epidemiology and Environmental Health, School of Public Health and

Health Professions, University at Buffalo

Education

Postdoctoral Training, Health Behavior

Roswell Park Cancer Institute, July 2004-December 2005

Mentor: K. Michael Cummings, Ph.D., MPH

Ph.D., Biobehavioral Health

The Pennsylvania State University, August 2004

Thesis advisor: Lynn T. Kozlowski, Ph.D.

Thesis title: Refinement and application of unobtrusive methods for assessing behavioral blocking

of filter vents on low tar cigarettes.

B.A., Magna Cum Laude, Psychology (minor in Biology)

The George Washington University, May 1999

Publications in peerreviewed journals (191)

Wei B, Goniewicz ML, O'Connor RJ, Travers MJ, Hyland A. Urinary Metabolite Levels of Flame Retardants in Electronic Cigarette Users: A Study Using the Data from NHANES 2013–14. *Int J Environ Res Public Health*, in press.

Dunbar ZR, Das A, O'Connor RJ, Goniewicz ML, Wei B, Travers MJ. Analysis of lead levels in selected electronic cigarettes from Canada and the United States. *Int J Environ Res Public Health*, in press.

Heckman BW, Cummings KM, Hirsch AA, Quisenberry AJ, Borland R, O'Connor RJ, Fong GT, Bickel WK. A novel method for evaluating the acceptability of substitutes for cigarettes: The experimental tobacco marketplace. *Tob Reg Sci*, in press.

O'Connor RJ, Lindgren BR, Schneller LM, Shields PG, Hatsukami DK. Evaluating the utility of subjective effects measures for predicting product sampling, enrollment, and retention in a clinical trial of a smokeless tobacco product. *Addict Behav. 2018*;76:95-99. 10.1016/j.addbeh.2017.07.025.

Berman ML, Bickel WK, Harris AC, LeSage MG, O'Connor RJ, Stepanov I, Shields PG, Hatsukami DK. Consortium on Methods Evaluating Tobacco: Research Tools to Inform FDA Regulation of Snus. *Nicotine Tob Res.* 2017. 10.1093/ntr/ntx228.

Chaudhry IW, Leigh NJ, Smith DM, O'Connor RJ, Goniewicz ML. Labeling Information on Electronic Nicotine Delivery Systems. *Tobacco Regulatory Science*. 2017;3(1):3-9. 10.18001/TRS.3.1.1.

Cho YJ, Thrasher JF, Yong HH, Szklo AS, O'Connor RJ, Bansal-Travers M, Hammond D, Fong GT, Hardin J, Borland R. Path analysis of warning label effects on negative emotions and quit attempts: A longitudinal study of smokers in Australia, Canada, Mexico, and the US. *Soc Sci Med.* 2017. 10.1016/j.socscimed.2017.10.003.

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El-Toukhy S, Choi K, Hitchman SC, Bansal-Travers M, Thrasher JF, Yong HH, O'Connor RJ, Shang C. Banning tobacco price promotions, smoking-related beliefs and behaviour: findings from the International Tobacco Control Four Country (ITC 4C) Survey. *Tob Control. 2017*. 10.1136/tobaccocontrol-2017-053648.

Fix BV, O'Connor RJ, Benowitz N, Heckman BW, Cummings KM, Fong GT, Thrasher JF. Nicotine Metabolite Ratio (NMR) Prospectively Predicts Smoking Relapse: Longitudinal Findings From ITC Surveys in Five Countries. *Nicotine Tob Res.* 2017;19(9):1040-47. 10.1093/ntr/ntx083.

Fix BV, O'Connor RJ, Heckman BW, Benowitz N, Cummings MK, Fong GT, Thrasher JF. Response to

"Rapid Nicotine Ratio and Successful Quitting: Acceptable Explanation" by the Authors of "Nicotine Metabolite Ratio (NMR) Prospectively Predicts Smoking Relapse: Longitudinal Findings from ITC Surveys in Five Countries". *Nicotine & Tobacco Research. 2017*:ntx213-ntx13. 10.1093/ntr/ntx213.

Levy DT, Borland R, Lindblom EN, Goniewicz ML, Meza R, Holford TR, Yuan Z, Luo Y, O'Connor RJ, Niaura R, Abrams DB. Potential deaths averted in USA by replacing cigarettes with e-cigarettes. *Tob Control.* 2017. 10.1136/tobaccocontrol-2017-053759.

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O'Connor RJ. The relationship between nicotine metabolite ratio (NMR) and smoking cessation among an international cohort of smokers in five countries. *Paper Session 13: Rapid Fire Treatment*. SRNT Annual Meeting, Chicago, IL, Mar 2-5 2016.

O'Connor RJ. Lessons from light/low-tar/mild cigarettes for assessing product appeal. Symposium 11: What We Know About Appeal: Implications for Product Regulation. SRNT Annual Meeting, Chicago, IL, Mar 2-5 2016.

O'Connor RJ. Oral snuff: A potential product for harm minimization for smokers? *Pre-Conference Workshop #1: The Changing Landscape of Nicotine and Tobacco Use: What Tobacco Treatment Clinicians and Researchers Need to Know.* SRNT Annual Meeting, Chicago, IL, Mar 2-5 2016.

O'Connor RJ. Subjective Effects. *A Public Workshop – Electronic Cigarettes and the Public Health.* Food and Drug Administration, Center for Tobacco Products, Silver Spring, MD, March 9-10 2015.

O'Connor RJ. Discussant. *Symposium 4: International Evidence on E-Cigarette Use and Demand.* SRNT Annual Meeting, Philadelphia, PA, Feb 25-28 2015.

O'Connor RJ. *IOM Committee Report on Scientific Standards for MRTP studies: A summary* National Conference on Tobacco or Health, Kansas City, MO, August 15-17, 2012.

O'Connor RJ. Chair. *Symposium 6: Contraband Tobacco and Smoking Behavior*. SRNT Annual Meeting, Toronto, ON, Feb 16-19 2011.

O'Connor RJ. Postmarketing surveillance and recordkeeping. Preconference Workshop: Research Needs Relevant to US FDA Legislative Authority to Regulate Tobacco Products. SRNT Annual Meeting, Baltimore, MD, Feb 24, 2010.

O'Connor RJ, Norton KJ, Cummings KM, Borland R. How do smokers react to information about and trial of oral nicotine sources? National Conference on Tobacco or Health, Phoenix AZ, June 10-12, 2009.

O'Connor RJ. Electronic cigarettes. Preconference Workshop: *Global Tobacco Product Research and Testing: Understanding the Changing Threat*. SRNT Annual Meeting, Dublin, Ireland, April 24 – May 1, 2009.

O'Connor RJ, Norton KJ, Cummings KM, Borland R. How do smokers react to information about and trial of oral nicotine sources? SRNT Annual Meeting, Dublin, Ireland, April 24 – May 1, 2009.

O'Connor RJ, Hammond D, Van Deusen A, Parkinson C, Giovino GA. Did fire risk-related behaviors, smoking behaviors, or exposures change in response to the Canadian Cigarette Ignition Propensity regulation? World Conference on Tobacco or Health, Mumbai, India, March 8-12, 2009.

O'Connor RJ, Hammond D, Van Deusen A, Parkinson C, Giovino GA. Did fire risk-related behaviors, smoking behaviors, or exposures change in response to the Canadian Cigarette Ignition Propensity regulation? International Conference on Fire-Safer Cigarettes, Norwood MA, May 16-17, 2008.

O'Connor RJ, Hammond D, Van Deusen A, Parkinson C, Giovino GA. Did fire risk-related behaviors, smoking behaviors, or exposures change in response to the Canadian Cigarette Ignition Propensity regulation? SRNT Annual Meeting, Portland OR, February 27-March 1, 2008.

O'Connor RJ. Existing technologies to reduce emissions of specific smoke toxicants: Working Paper. 4th Meeting of the WHO Study Group on Tobacco Product Regulation, Stanford CA, July 23-25 2007.

O'Connor RJ. International Tobacco Products Repository. 2nd Meeting of the World Health Organization's Tobacco Laboratory Network, Beijing, China, November 20-22, 2006.

O'Connor RJ. Cross-country similarities and differences in the physical properties and design features of cigarettes. APHA Annual Meeting, Boston MA, November 4-8, 2006.

O'Connor RJ, Hammond D, King B, McNeill A, Giovino G, Cummings KM. What makes Light cigarettes light? Examining physical properties. IN: *Are Cigarettes Safer? Analyzing Products and Industry Claims*. World Conference on Tobacco or Health, Washington DC, July 12-15, 2006.

O'Connor RJ. Reports from smokers: Reactions to fire-safe cigarettes and fire-risk behaviors. World Conference on Fire-Safer Cigarettes, Boston MA, December 9, 2005.

O'Connor RJ, Giovino GA, Cummings KM, Hammond D, & Fong GT. Consumer reactions to reduced ignition propensity cigarettes in New York State. National Conference on Tobacco or Health, Chicago IL, May 4-6, 2005.

O'Connor RJ, Kozlowski LT, Flaherty BF, & Quinio Edwards B. Most smokeless tobacco use does not cause cigarette smoking: Results from the 2000 National Household Survey on Drug Abuse. SRNT Annual Meeting, Scottsdale AZ, February 18-21, 2004.

Kozlowski LT, O'Connor RJ, Edwards BQ, & Flaherty BF. Most smokeless tobacco is not a causal gateway to cigarettes: Using order of use to evaluate causation in a national U.S. sample. SRNT Annual Meeting, New Orleans LA, February 19-22, 2003.

Working Papers

O'Connor RJ. *Heat-not-burn tobacco products*. Prepared for the 9th Meeting of the WHO Study Group on Tobacco Product Regulation, Minneapolis, MN, December 5-7, 2017.

O'Connor RJ. *Heat-not-burn tobacco products*. Prepared for the Global Tobacco Regulators Forum, Ottawa, Canada, April 20-21 2017.

Connolly GN, O'Connor RJ. Research and monitoring and scientific development with respect to Reduced Ignition Propensity cigarettes. Prepared for the 7th Meeting of the WHO Study Group on Tobacco Product Regulation, Rio de Janiero, Brazil, December 3-5, 2013.

O'Connor RJ. *Regulatory approaches to products marketed as tobacco cessation aids*. Prepared for the 5th Meeting of the WHO Study Group on Tobacco Product Regulation, Durban, South Africa, November 12-14 2008.

Laugesen M, O'Connor RJ. *Electronic cigarettes (Electronic nicotine inhalers)*. Prepared for the 5th Meeting of the WHO Study Group on Tobacco Product Regulation, Durban, South Africa, November 12-14 2008.

O'Connor RJ. Existing technologies to reduce emissions of specific smoke toxicants. Prepared for the 4th Meeting of the WHO Study Group on Tobacco Product Regulation, Stanford CA, July 23-25 2007.

Funding (Active)

Consortium on methods evaluating tobacco (COMET): Filter ventilation and product standards P01 CA217806

09/01/2017 - 08/31/2022

This Program project seeks to develop a science base for the removal of filter ventilation from cigarettes, including toxicant exposure, abuse liability, and consumer perception.

Role: Project Director (1.50 CM)

Evaluating How Tobacco Control Policies are Shaping the Nicotine Delivery Market P01 CA200512 (Cummings/Fong)

4/01/2016 - 3/31/2021

This study leverages the ITC framework to examine how policy differences across countries affect vaporized nicotine product use, nicotine delivery and toxicant profiles across a range to electronic nicotine delivery system products.

Role: Project Director (1.50 CM)

Assessing the impact of differing pharmacy tobacco retail displays on smokers' awareness, perceptions, and intentions to quit

R21 CA198824 (Bansal-Travers)

6/1/2016 - 5/31/2018

The goal of this project is to take advantage of an on-going natural experiment in the three largest US pharmacy chains to better understand consumer perceptions of differences in point-of-sale advertising for using and quitting tobacco, particularly how it is received, understood, an acted on by young adult cigarette smokers.

Role: Co-investigator (0.60 CM)

Nicotine delivery from novel non tobacco electronic systems

R01 DA037446 (Goniewicz)

9/01/2014 - 8/31/2018

This study seeks to examine nicotine delivery characteristics across a range to electronic nicotine delivery system products to inform regulatory science.

Role: Co-investigator (0.60 CM)

Models for tobacco product evaluation

U19 CA157345 (Hatsukami)

9/01/2012 - 8/31/2018

This Program project seeks to develop a science base for Food and Drug Administration evaluation of novel tobacco products claiming modified risk, with particular focus on consumer behaviors and perceptions

Role: Project Director (1.80 CM)

Funding (Completed)

Building the evidence of effective and sustainable cigarette warning label policy

R21 DA036476 (Thrasher)

7/1/2012 - 6/30/2017

The goal of this project is to identify the cigarette health warning label policy characteristics that produce the most effective and sustainable impact on adult smokers.

Role: Co-investigator (0.12 CM)

Influence of advertising and product type on e-cigarette demand among smokers

R21 DA036476 (O'Connor)

09/01/2013 - 08/31/2016

This project seeks to extend experimental auction methodology to understand demand for and factors related to continued use of electronic cigarettes.

Role: Principal Investigator (1.20 CM)

Exploring current smokers' interest in using smokeless tobacco products

R01 CA141609 (O'Connor)

07/01/2009 - 06/30/2016

This project seeks to utilize complementary approaches that address different aspects of the relationship of price to smokeless tobacco product adoption, considering other mediating and moderating factors.

Role: Principal Investigator (1.20 CM)

Effectiveness of tobacco control policies in high vs. low income countries

P01 CA138389 (Cummings)

07/01/2009 - 06/30/2016

This Program project seeks to develop a science base for policies implemented in response to the Framework Convention on Tobacco Control (FCTC).

Role: Project Director (1.20 CM)

International Tobacco Policy Survey

R01 CA100362 (Fong)

09/01/2009 - 08/31/2015

This project supports the ITC surveys in the United States, Canada, Australia, and the UK, focused on examining the effectiveness of FCTC policies.

Role: Co-investigator (in kind)

Objective imaging-based assessment of smoking behavior from used filters

R21 CA160825 (O'Connor)

07/01/2011 - 06/30/2014

This project seeks to develop and refine advanced image analysis techniques to link filter color

and stain pattern to smoking topography and biomarkers of exposure.

Role: Principal Investigator

Tobacco policy evaluation in China and South Korea: The ITC Asia study

R01 CA125116 (Fong)

03/01/2008 - 03/31/2013

The purpose of this project is to examine Chinese and Korean smokers' reactions to policies related to FCTC. The RPCI component included pilot testing of biomarker collection and analysis in Chinese smokers, and monitoring Chinese cigarettes for our repository.

Role: Co-investigator

LC-MS analysis of DNA adducts of aromatic amines

R01 CA069390 (Vouros)

08/01/2010 - 07/31/2013

This study seeks to apply LC-MS/MS technology to examining amine-DNA adducts in urothelial cells of smokers before and after smoking cessation.

Role: Co-investigator

Evaluating Low Ignition Propensity Cigarette Legislation

R01 CA117108 (O'Connor)

09/01/2006 - 8/31/2011

This study sought to evaluate epidemiological and biobehavioral effects of mandating low ignition propensity cigarettes in the US and Canada.

Role: Principal Investigator

Building the Evidence Base for Tobacco Control Policies

P50 CA111236 (Cummings)

09/01/2004 - 8/31/2010

This study sought to examine cross-country differences in tobacco control policy effectiveness.

Role: Co-investigator (Years 1-2); Project Director (Years 3-5)

Laboratory assessment of tobacco use behavior and exposure to toxins among users N01PC64402-4-0-0 (Shields)

09/01/2006 - 8/31/2011

This contract focused on developing methods and measures for assessing tobacco products.

Role: Co-investigator

Institutional Service

Director of Graduate Studies, Department of Cancer Pathology and Prevention, Roswell Park Cancer Institute Graduate Division, University at Buffalo. 2013 – current.

Curriculum Committee. Roswell Park Cancer Institute Graduate Division, University at Buffalo. 2013 – current.

Conflict of Interest Committee. Roswell Park Cancer Institute. 2013 – current.

Chair, Faculty Search Committee, Health Behavior, Roswell Park Cancer Institute. 2012; 2015-6.

Faculty Search Committee, Office of Cancer Health Disparities, Roswell Park Cancer Institute. 2013-14.

Editorial Activities

Senior Editor, Tobacco Control, 2016-present.

Senior Associate Editor, Tobacco Regulatory Science, 2015 – present.

Co-Section Editor, Health Behavior, Promotion, and Society, BMC Public Health, 2011 – 2012.

Associate Editor, BMC Public Health, 2009 - 2011.

Guest Co-Editor, "The Environmental Burden of Cigarette Butts." Tob Control 2011; 20(Suppl 1).

Ad Hoc Reviewer for: Addiction; Addict Behav; Am J Prev Med; Am J Epidemiology; Am J Public Health; Anal Chem; Ann Behav Med; Biol Psychiatry; BMC Public Health; BMC Health Services Research; Cancer Epidemiol Biomarkers Prev; Drug Alcohol Depend; Harm Reduct J; Health Affairs; Health Econ; Health Educ Res; Health Promot Pract; Inhal Toxicol; J Health Care Poor Underserv; J Addict Med; J Anal Toxicol; Med Oncol; Neuropsychopharm; Nicotine Tob Res; Pharmacol Biochem Behav; Prev Med; Tob Control; Trials.

Professional Activities

Member, Tobacco Products Scientific Advisory Committee, Center for Tobacco Products, Food and Drug Administration, April 2014 – March 2018.

Consultant, Center for Tobacco Products, Food and Drug Administration, July 2013 – April 2014.

Consultant, Tobacco Constituents Subcommittee, Tobacco Products Scientific Advisory Committee, Food and Drug Administration, June - July 2010.

Member, Institute of Medicine Committee, "Scientific Standards for Studies of Modified Risk Tobacco Products." 2011.

9th Meeting of the WHO Study Group on Tobacco Product Regulation (TobReg) Sponsored by the World Health Organization Tobacco Free Initiative Minneapolis, MN, Dec 5-7, 2017.

3rd Meeting of the WHO Tobacco Laboratory Network (TobLabNet) Sponsored by the World Health Organization Tobacco Free Initiative London, UK, November 26-28, 2007.

4th Meeting of the WHO Study Group on Tobacco Product Regulation (TobReg) Sponsored by the World Health Organization Tobacco Free Initiative Stanford, CA, July 25-27, 2007.

Defining the Upper Limits for Tobacco Toxicants, Third Working Group Meeting
Sponsored by the World Health Organization Tobacco Free Initiative and International Agency for
Research on Cancer
San Diego, CA, March 23-24, 2007.

Translating Tobacco Laboratory Data into Meaningful Tobacco Control Regulatory Practice. Sponsored by the World Health Organization Tobacco Free Initiative and the German Ministry of Health.

Berlin, Germany, March 6-7, 2007.

2rd Meeting of the WHO Tobacco Laboratory Network (TobLabNet) Sponsored by the World Health Organization Tobacco Free Initiative Beijing, China, November 20-22, 2006.

Advanced Training Institute on Health Behavior Theory.

Sponsored by the National Cancer Institute and the Office of Behavioral and Social Sciences Research

Madison, WI, June 19-26, 2005.

Forum on Harm Reduction in Tobacco Control. Sponsored by the Canadian Council for Tobacco Control Ottawa, ON, April 23, 2004.

Courses Taught

Cancer Control and Prevention (PTR 500), Roswell Park Graduate Division, University at Buffalo. Fall 2014-15; 2017.

Tobacco Control (PTR/CHB 528), Roswell Park Graduate Division & School of Public Health and Health Professions, University at Buffalo. Spring 2015, 2017.

Guest Lecturer, Health Behaviors, *Oncology for Scientists II*, Roswell Park Graduate Division, University at Buffalo. Spring 2012-15; 2017.

Guest Lecturer, Nicotine Addiction, *Principles of Community Health and Health Behavior*, School of Public Health and Health Professions, University at Buffalo. Fall 2012-16.

Research Interests

Biobehavioral influences on smoking initiation, maintenance, and cessation

Tobacco regulatory science and policy

Use of alternative nicotine and tobacco products Risk perceptions of tobacco and nicotine products

Harm reduction

Ethics in health communication and health policy

Unobtrusive methods for assessing intake of cigarette smoke in smokers

Teaching Interests

Cancer control & prevention

Psychopharmacology

Health psychology & behavioral medicine

Public health

Research methods/Data analysis

Ethics in health research & health promotion

Professional Affiliations

Society for Research on Nicotine and Tobacco

American Public Health Association American Psychological Association

American Society for Preventive Oncology