

## CURRICULUM VITAE

### PART I: General Information

**DATE PREPARED:** 12/2021

**Name:** KARL TIMOTHY KELSEY  
**Office Address:** 70 Ship Street, Department of Epidemiology and Pathology and Lab. Medicine,  
Providence, RI 02912  
**Home Address:** 80 Toxteth Street, Brookline, MA 02446  
**Work E-mail:** Karl\_Kelsey@Brown.edu  
**Place of Birth:** Minneapolis, Minnesota

### Education:

1976	B.A., Physics	<b>University of Minnesota</b> , Minneapolis, MN
1981	M.D., Medicine	<b>University of Minnesota</b> , Minneapolis, MN
1984	M.O.H, Occupational Health	<b>Harvard University</b> , Boston, MA

### Postdoctoral Training:

1981–1982	Resident	Diagnostic Radiology	Mt. Zion Hospital and Medical Center, San Francisco, CA
1982–1983	Postdoctoral Fellow	Environmental Pathology	Laboratory of Environmental Pathology University of Minnesota Medical School Minneapolis, Minnesota
1983–1985	Resident	Occupational Medicine	Harvard School of Public Health, Boston, MA
1985–1987	Postdoctoral Fellow	Environmental Carcinogenesis	Laboratory of Radiobiology Harvard School of Public Health Boston, Massachusetts

### Licensure and Certification:

1982	Minnesota Medical License (inactive by choice)
1984	Massachusetts Medical License (inactive by choice)
1986	Board Certification, American Board of Preventive Medicine – Occupational Medicine

**Academic Appointments:**

1986–1987	Lecturer of Community Medicine	Tufts University School of Medicine
1987–1991	Assistant Professor of Occupational Medicine	Harvard School of Public Health
1988–1991	Assistant Professor of Radiobiology	Harvard School of Public Health
1991–1998	Associate Professor of Occupational Medicine	Harvard School of Public Health
1991–1998	Associate Professor of Radiobiology	Harvard School of Public Health
1995–2007	Associate Physician of Channing Laboratory	Brigham and Women’s Hospital
1995–2007	Associate Professor of Medicine	Harvard Medical School
1998–2007	Professor of Cancer Biology & Environmental Health	Harvard School of Public Health
2007-pres.	Professor of Epidemiology & Pathology and Laboratory Medicine	Brown University

**Hospital or Affiliated Institution Appointments:**

1985–1999	Staff Physician in Occupational Medicine Clinic	Massachusetts Respiratory Hospital Braintree, MA
1995–2007	Associate Physician at the Center for Chest Diseases	Brigham and Women’s Hospital Boston, MA
2005–2007	Consulting Staff	Dana-Farber Cancer Institute Boston, MA

**Major Committee Assignments:***Institutional (Local):***2001–2007**

*The Standing Committee on Appointments, Reappointments and Promotions (SCARP)*  
Committee Member, Harvard School of Public Health

**2005–2007**

*Faculty Council (Elected)*  
Committee Member, Harvard School of Public Health

**2007-2015**

*Environmental Council*  
Committee Member, Brown University

**2016-2020**

*Public Health Faculty Appointments committee*  
Committee Member, Brown University

**2003–2007**

*The Standing Committee of Appointments, Reappointments and Promotions (SCARP)*  
Chairperson, Harvard School of Public Health

**2007-2008**

*Committee on Global Health at Brown University*  
Committee Member, Brown University

**2015 – 2016**

*School of Public Health Faculty Affairs Committee*  
Committee member

**2015-present (Chair 2019-2022)**

*Conflict of Interest Review Board*  
Committee Member, Brown University

*Regional:***1989**

*Advisory Committee to the Environmental Health Education Project*  
Advisor, Massachusetts Department of Public Health and the Massachusetts Health Research Institute, Inc.

**1994–2020**

*Department of Environmental Protection, Office of Research and Standards*  
Ad Hoc Advisor, Commonwealth of Massachusetts

**1990–1991**

*Advisory Committee to the State of Massachusetts for Regulating Radionuclide Emissions from Power Plants*  
Advisor, Commonwealth of Massachusetts

*National:*

**1991–1993**

*Advisory Committee, Program Project Grant,  
“Molecular Epidemiology of Lung Cancer  
Advisor, Columbia University School of Public  
Health*

**1992–1993**

*Committee to Study the Health Effects of Mustard  
Gas and Lewisite  
Committee Member, Institute of Medicine*

**1993–1995**

*Association of Occupational & Environmental  
Clinics Membership Committee  
Chairperson, Association of Occupational &  
Environmental Clinics*

**1995–1997**

*Scientific Advisory Committee  
Advisor, Lower Mississippi River Interagency  
Cancer Study, LSUMC Stanley S. Scott Cancer  
Center, New Orleans, Louisiana*

**1997**

*Committee on the Evaluation of the VA Uniform  
Case Assessment Protocol  
Committee Member, Institute of Medicine*

**1999–2000**

*Committee on Copper in Drinking Water  
Committee Member, Institute of Medicine*

**1999–2004**

*Science Advisory Committee  
Advisor, Boeing/Rocketdyne Company*

**2002**

*Ad hoc Dean’s Review of Environmental Health  
Department  
Advisor, University of Minnesota School of Public  
Health*

**2004**

*NIEHS Core Centers Evaluation Working Group  
National Institute of Environmental Health Sciences*

**1992–1999**

*Association of Occupational & Environmental Clinics  
Membership Committee  
Committee Member, Association of Occupational &  
Environmental Clinics*

**1993–1994**

*Committee on an Environmental Medicine Curriculum  
for Medical Schools  
Committee Member, Institute of Medicine*

**1994–1997**

*Committee to Study the Health Effects of the Persian  
Gulf War  
Committee Member, Institute of Medicine*

**1996–Pres.**

*Scientific Advisory Council  
Advisor, Hawaii Heptachlor Research & Education  
Foundation, Honolulu, Hawaii*

**1997–2003**

*Biennial Report on Carcinogens, Board of Scientific  
Counselors Sub-Committee  
Committee Member, National Institute of Health*

**1999–2001**

*Science Advisory Committee  
Advisor, Semiconductor Industry of America*

**2000–2008**

*External Advisory Committee  
Mt. Sinai School of Medicine, Superfund Basic  
Research Program*

**2003–Pres. (Chair 2018-pres.)**

*External Advisory Committee  
NIEHS Center, Keck School of Medicine*

**2004–2008**

*Committee on Toxicity Testing and Assessment of  
Environmental Agents  
Committee Member, National Academy of Sciences*

**2004–2008**

*Environmental Health Sciences Review Committee*  
 Advisor, National Institute of Environmental Health Sciences

**2007–Pres.**

*Science Advisory Committee*  
 University of Minnesota Taconite Study

**2010 – 2011, 2012-2013, 2014-2015, 2017- 2019**

*Committee to Review the Health Effects in Vietnam Veterans of Exposure to Herbicides (Eight Biennial Update).*

Committee member, Institute of Medicine/National Academy of Medicine

**2006**

*Science Advisory Committee*  
 CIIT Center for Health Research

**2009 – 2012.**

*EPIC study section*  
 Regular member

**2013-pres**

Ad hoc study section member

**2021**

Testimony before the Senate Committee on Veterans' Affairs, March 10, 2021

*"Veterans and Agent Orange: Update 11"*

Testimony before the House Committee on Veterans' Affairs, May 5, 2021

*"Toxic Exposures in the Military"*

*International***1999–Pres.**

*Cancer Research Campaign (CRC)*  
 Reviewer, CRC, UK

**Professional Societies:**

1982	Environmental Mutagen Society	Member
1985	Radiation Research Society	Member
1985	American Association for the Advancement of Science	Member
1985	American Occupational and Environmental Medicine Association	Member
1985	American College of Occupational and Environmental Medicine	Member
1989	American Association for Cancer Research	Member

**Editorial Boards:**

1993–Pres.	Contributing Editor, <i>American Journal of Industrial Medicine</i>
2007–Pres.	Editorial Academy, <i>International Journal of Oncology</i>
2008-Pres.	Associate Editor, <i>Occupational and Environmental Medicine</i>

**Honors and Awards:**

1994	Council Fellow, Collegium Ramazzini
2009	Center for Alternatives to Animal Testing (CAAT) Recognition Award

**Part II: Research, Teaching and Clinical Contributions****A. Narrative Report:**

Dr. Kelsey is interested in the application of laboratory-based biomarkers in environmental and chronic disease epidemiology and tumor biology. The goals of his work include a mechanistic understanding of individual susceptibility to exposure-related cancers. In addition, his laboratory studies tumor biology, investigating somatic alterations in tumor tissue from patients who have developed exposure-related cancers. This work involves using an epidemiologic approach to characterize epigenetic and genetic alteration of genes in the causal pathway for malignancy. Recently, the lab has worked collaboratively to develop DNA methylation biomarkers for assessment of the effects of the environment in general on the epigenome. We have launched exciting new work using the DNA methylation marks that are indicative of leukocyte lineage differentiation as probes for biomarker-based epidemiologic assessment of the immune response. This has tremendous implications for assessing inflammation and the nature of the immune response in-vivo, using a population-based approach.

Active work includes several studies of individual susceptibility to cancer and development, assessing the nature of the immune response to noxious stimuli. The laboratory is investigating susceptibility to smoking-related lung cancer, studying multi-racial and ethnic populations. In addition, the laboratory is also studying inherited susceptibility to brain tumors and pancreatic cancer. Major case control studies that are ongoing in the laboratory include studies designed to understand inherited and acquired susceptibility in head and neck cancers. It is also involved in a case control study of arsenic exposure, cigarette smoking and bladder cancer and a study of the epigenetics of environmental exposures and development over the first 10 years of life.

### B. Funding Information

1986–1987	NIEHS Center Pilot Project, HSPH	PI	Follow-up Study of the Genotoxicity of Chronic Inhalation Exposure to Ethylene Oxide in a Non-Human Primate Model
1987–1989	Biomedical Research Support Grant, HSPH	PI	A Study of the Significance of Ethylene Oxide-Induced Persistent Cytogenetic Changes in a Non-Human Primate Model
1988–1989	<i>The Boston Globe</i>	Co-PI	Descriptive Survey of Pressman and Paperhandlers at Boston Globe
1988–1990	Centers for Disease Control	PI	Chromosomal Changes after Ethylene Oxide Exposure
1989–1990	NIEHS Center Pilot Project HSPH	PI	Hodgkin's Therapy, Genetic Damage and Cancer Risk
1989–1991	Department of Energy	PI	<i>In Vivo</i> Mutagenicity and Clastogenicity of Ionizing Radiation in Nuclear Medicine
1991–1992	Centers for Disease Control	PI	<i>In Vivo</i> Mutagenicity and Clastogenicity of Ionizing Radiation in Nuclear Medicine
1991–1994	NIOSH Special Emphasis Research Career Award	PI	Susceptibility to Genetic Damage from Butadiene
1992–1995	National Cancer Institute	Co-Inv	"Cancer Following Long-Term Exposure to Radioactive Thorotrast"
1992–1995	National Cancer Institute	Co-Inv	Mutational Lesions Specific for Ionizing Radiation
1993–1997	NCI/NIEHS: Program Project Award	Co-PI/ Proj. Leader	"K-ras and p53 Mutation in Lung Cancer"
1994	NIEHS Center Pilot Project Award	PI	Molecular Basis of Chromosomal Sensitivity to Diepoxybutane
1994–1999	National Cancer Institute	Co-Inv	Pancreatic Cancer: Case-Control Study in San Francisco
1996–1997	Brain Tumor Foundation	PI	"Allelic Variation in Carcinogen Metabolism and Brain Tumor Risk"
1996–2000	American Cancer Society	Co-Inv	"Genetic Determinants of Colon Polyp Development"
1996–2000	National Cancer Institute	Co-Inv	"Cohort Study of Genetic Markers in Colon Cancer"
1996–2000	National Institute of Environmental Health Sciences	PI	"LOH at 3p and p53 and K-ras Mutation in Lung Cancer"
1996–2000	National Institute of Environmental Health Sciences	Co-Inv	"Exposure, Dose, Body Burden and Health Effect of Lead"
1996–2005	National Institute of Environmental Health Sciences	Co-PI	"Modeling Human Exposure Dose-Relationships: 1, 3-Butadiene"
1997–2002	National Cancer Institute	Co-Inv	"Genetic Susceptibility to Lung Cancer"
1994–2010	National Institute of Environmental Health Sciences	Co-Inv	"Lung Cancer Susceptibility in Minorities"
1990–2011	National Cancer Institute	PI	"Boston Collaborative Oral Cancer Study"
1996–2006	National Cancer Institute	Co-Inv	"Genetic Epidemiology of Malignant Glioma"
2000–2007	National Institute of Environmental Health Sciences	PI/Project Leader	"Superfund Toxic Substances: Exposure and Disease Project: Arsenic and Bladder Cancer"

2004–2007	National Institute of Environmental Health Sciences	Program Dir.	“Training Program in Environmental Health Sciences”
2003–2013	National Cancer Institute	PI	“Patterns of Somatic Gene Alteration in Oral Cancer”
2003–2013	National Cancer Institute	Co-Inv	“Molecular Epidemiology of Non-Melanoma Skin Cancer”
2007-2012	National Cancer Institute	PI	“The Molecular Epidemiology of Bladder Cancer”
2007-2013	National Cancer Institute	PI	“The Epidemiology of Molecular Alterations in Mesothelioma”
2008-2013	National Institute of Child Health and Human Development	Co-Inv	“The National Children’s Study”
2008–2013	National Institute of Environmental Health Sciences	PI-Sub w/Dartmouth	“Superfund: Toxic Metals in the Northeast: From Biological to Environmental Implications”
2009-2014	National Institute of Environmental Health Sciences	PI	“Project 8: Environment, Genetics an Epigenetics in a Rhode Island Birth Cohort”
2013-2018	NIDCR	Co-Inv	“miRNA SNPS in Head and Neck Cancer”
2014-2015	Johnson & Johnson	Co-PI	“Methylation Biomarkers of NK cell activation”
2016-2019 (NC ext)	National Cancer Institute	C0-PI	“Prospective immune profiling using methylation markers and pancreatic cancer risk”
2017-2022	National Cancer Institute	Co-Inv	“Immunomethylomics of Glioma”
2017-2022	National Cancer Institute	Co-Inv	“Biomarkers of Immune Status in Bladder Cancer”
2019-2022	AACR/Johnson and Johnson	Co-PI	“Candidate Markers for Detection of Lung Cancer”
2021-2026	National Cancer Institute	Co-PI	“DNA-based Immune Phenotyping in HNSCC for Biomarkers of Response to Immunotherapy”

#### D. Report of Teaching:

##### *Local Contributions*

###### **1986-1987**

Toxicology: The Science of Poisons  
Harvard College, Harvard University  
Karl Kelsey – instructor  
Undergraduate honors course; 20 students  
20 hrs/yr

###### **1986-1988**

*Epidemiology and Biostatistics*  
Tufts University School of Medicine  
Karl Kelsey – co- instructor  
Section leader; 20 students  
16 hrs/yr

###### **1988-1989**

*Industrial Toxicology*  
Harvard School of Public Health  
Karl Kelsey – Instructor

###### **1986-1987**

*Occupational Medicine*  
Harvard School of Public Health  
Karl Kelsey – co- instructor  
Course developer; 20 students  
16 hrs/yr

###### **1987-1988**

*Industrial Toxicology*  
Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 20 students  
32 hrs/yr

###### **1988-1989**

*Occupational Medicine*  
Harvard School of Public Health  
Karl Kelsey – co- instructor

Course developer; 20 students  
32 hrs/yr

**1989-1991, 1999**

*Toxicology*

Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 20 students  
32 hrs/yr

**1990-1993, 1999**

*Cancer Biology*

Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 22 students  
16 hrs/yr

**1996-1999**

*Interdepartmental Seminar in Biological Science*

Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 22 students  
16 hrs/yr

**2000-2004**

*Cancer Biology*

Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 16 students  
16 hrs/yr

**2003**

*Molecular Epidemiology of Chronic Diseases*

Harvard School of Public Health  
Karl Kelsey – Lecturer  
12 students  
8h/yr

**2005**

*Toxicology*

Harvard School of Public Health  
Karl Kelsey-Lecturer  
Fall, 25 Students

**2014**

*Cancer Epidemiology*

Brown University of Public Health  
Instructor  
Spring  
12 Students  
24h/yr

Course developer; 20 students  
16 hrs/yr

**1989-1990**

*Occupational Toxicology*

University of Massachusetts/Harvard Educational Resource  
Center–Continuing Education  
Co-Instructor  
20 students  
4 hrs

**1994-1999**

*Biomarkers in Occupational and Environmental Health*

Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 12 students  
16 hrs/yr

**2000-2002**

*Biomarkers in Cancer Research*

Harvard School of Public Health  
Karl Kelsey – Instructor  
Course developer; 10 students  
16 hrs/yr

**2000-2004**

*Toxicology*

Harvard School of Public Health  
Karl Kelsey – Co-Instructor  
lecturer; 22 students  
4 hrs/yr

**2005-2006**

*Integrated Cancer Biology*

Harvard School of Public Health  
Karl Kelsey –Co-Instructor  
(TBD) No. Students  
7.5hr/yr

**2008-2022**

*Topics in Environmental Health*

Brown University  
Instructor  
22 - 72 students  
24 hours/yr

**2017-2023**

*Biology in Public Health*

Instructor  
Spring  
8 – 18 Students  
24hr/yr

Trainees:

*PAST TRAINEES*

<b>Names</b>	<b>Positions</b>	<b>Dates</b>	<b>Current Position</b>
Applebaum, K.M.	Postdoctoral	2007	Associate Professor, George Washington University Milikan Institute School of Public Health
Caggana, M	Pre-doctoral	1987-1991	Deputy Director, Division of Genetics Director of Newborn Screening New York State Department of Health
Cheng, T.J.	Pre-doctoral	1992-1996	Professor, National Taiwan University College of Public Health, Institute of Occupational Medicine and Industrial Hygiene, Taipei, Taiwan
Chen, J.	Post-doctoral	1996-1998	Professor of Preventive Medicine, Hematology and Medical Oncology, and Pediatrics. The Mount Sinai Hospital, New York, NY.
Danaee, H.	Pre-doctoral	1998-2003	Senior Director, Immuno-Oncology Translational Research and Development, Tesaro, Inc.
Devi-Ashok, T.	Post-doctoral	1997-1999	Senior Lecturer, Department of Biology and Anthropology, University of Massachusetts Boston, MA
Duell, E.	Post-doctoral	1999-2001	Unit of Nutrition, Environment and Cancer, Cancer Epidemiology Research Programme Institut Català d'Oncologia (ICO) Catalan Institute of Oncology, L'Hospitalet de Llobregat, Barcelona, Spain
Furniss, S.	Pre-doctoral / Post-doctoral	2002-2006	Researcher, Medical Oncology/Population Sciences, Dana Farber Cancer Institute, Boston, Massachusetts
Hasegawa, M.	Post-doctoral	2001-2002	Senior Surgeon, Chiba University School of Medicine, Chiba, Japan
Hirao, S.	Post-doctoral	2002-2004	Urology Surgeon, Saiseikai Chuwa Hospital, Dept of Urology, Nara, Japan
Hirao, T.	Post-doctoral	1999-2002	Senior Surgeon, Saiseikai Chuwa Hospital, Dept of Surgery, Nara, Japan
Hirao, Y.	Post-doctoral	2002-2004	General Physician, Hirao Hospital, Dept of General Internal Medicine, Kashihara, Nara, Japan
Ishibe, N.	Pre-doctoral	1994-1997	Program Director, NIH, Washington, D.C.
Kim, D.H.	Pre-doctoral	1996-2001	Professor of Medicine, Sungkyunkwan University, Seoul, Korea
Kraunz, K.	Pre-doctoral	2000-2005	Data Scientist, ADM Associated, Truckee, CA.
LaMontagne, A.	Pre-doctoral / Post-doctoral	1990-1994 1994-1995	Professor, Centre for the Study of Health and Society, University of Melbourne and Monash Medical School, Melbourne, Australia
Marsit, C.	Pre-doctoral / Post-doctoral	2000-2006	Professor of Environmental Health, Associate Dean for Research, Emory University, Atlanta, GA
McClellan, M.	Post-doctoral	2003-2004	Associate Professor, Assistant Dean for Research, Dept of Environmental Health, Boston University, Boston, MA
Nelson, H.	Pre-doctoral / Post-doctoral	1993-1998	Professor of Epidemiology, Masonic Cancer Center and Dept of Epidemiology, University of Minnesota, Mpls., MN.
Ringstrom, E.	Post-doctoral	2000 -2002	Attending Physician, Mount Sinai School of Medicine, New York, NY- deceased.
Smith, C. M.	Post-doctoral	1991-1993	Director, Office of Research & Standards, Massachusetts Dept of Environmental Protection, Boston, MA
Wang, X.	Post-doctoral	1992-1997	Professor, Dept of Pathology and Laboratory Medicine, University of Rochester Medical Center, Rochester, NY
Christensen, B.	Pre-doctoral/ Post-doctoral	2003-2008 2008-2011	Professor of Community and Family Medicine, and of Pharmacology and Toxicology, Dartmouth College



Chen, A.	Pre-doctoral	2005-2007	Research Associate, Boston Children's Hospital, Boston, MA.
Liang, C.	Pre-doctoral	2007-2011	Epidemiologist, Optum Health, Buffalo, New York.
Gee, G.	Post-doctoral	2008-2010	Assistant Professor of Molecular Biology, Cell Biology and Biochemistry (Research), Brown University.
Poage, G	Predocctoral	2008-2011	Medical Science Liason, Biotheranostics, Minneapolis, MN.
Menard, H	Pre-doctoral	2008-2011	Post-doctoral, University of Ryukyus, Okinawa, Japan
Langevin, S.	Post-doctoral	2010-2013	Associate Professor of Epidemiology, Dept. of Environmental Health, University of Cincinnati.
Accomondo, W.	Pre-doctoral	2008-2013	Biomedical Research Scientist, Tocagen, Inc., San Diego, CA.
Smith, A.	Pre-doctoral	2008-2014	Staff Scientist, American Journal Experts
Macconi, J	Pre-doctoral	2009-2014	Syrian American novelist, Hershey, PA.
Ze Zhang	Post-doctoral	2016-2018	PhD student Dartmouth College
Kim, Stephanie	Pre-doctoral	2015-2016	Staff Scientist, EPA

#### *CURRENT TRAINEES*

<b>Names</b>	<b>Positions</b>	<b>Dates</b>	<b>Source of Funding</b>
Isabella Berglund-Brown	Brown Medical student	2020-pres	grant
Stella Ng	Brown undergrad	2021-pres	Brown University

#### **Regional and National Contributions *Invited Talks***

##### **1983**

- International Conference on Sister Chromatid Exchange, Brookhaven National Laboratory

##### **1985**

- 33rd Annual Meeting of the Radiation Research Society, Atlanta, GA
- Environmental Mutagen Society Annual Meeting, Baltimore, MD

##### **1986**

- 34th Annual Meeting of the Radiation Research Society, Las Vegas, NV
- 77<sup>th</sup> Annual Meeting of the American Association for Cancer Research, Los Angeles, CA

##### **1987**

- Environmental Mutagen Society Annual Meeting, San Francisco, CA

##### **1988**

- Environmental Mutagen Society Annual Meeting, Charleston, SC
- NIOSH-Sponsored Conference on the Medical Surveillance of Hazardous Waste Workers

##### **1989**

- Environmental Mutagen Society International Meeting, Cleveland, OH

##### **1990**

- 81st Annual Meeting of the American Association for Cancer Research, Washington, DC
- Radiation Research Society, New Orleans, LA

##### **1991**

- 22nd Annual Meeting of the Environmental Mutagen Society, Kissimmee, FL

##### **1992**

- American Public Health Association, Washington, DC
- Environmental Mutagen Society, Charleston, SC
- 9th International Symposium in Epidemiology in Occupational Health, Cincinnati, OH
- American Thoracic Society, Miami, Beach, FL

**1993**

- American Thoracic Society, San Francisco, CA

**1994**

- American Association for Cancer Research, San Francisco, CA
- American Thoracic Society, Boston, MA
- American Public Health Association, Washington, DC
- 2nd Annual DOE Conference on the Use of Biomarkers in Medical Surveillance, Santa Fe, NM
- Scripps Clinic Annual Postgraduate Seminar in Clinical Oncology, La Jolla, CA
- ACOEM Scientific Session, Denver, CO
- 10th International Symposium on Epidemiology in Occupational Health, Como, Italy
- 1st Annual Teikyo-Harvard Symposium, Tokyo, Japan

**1995**

- American Association for Cancer Research, Toronto, Canada

**1996**

- 2nd Teikyo-Harvard Symposium, Boston, MA
- National Academy of Sciences Symposium on the Effects of Low Level Radiation Exposure
- American Association for Cancer Research, Washington, DC

**1997**

- American Association for Cancer Research, San Diego, CA
- Molecular Advances in Cancer Epidemiology, San Francisco, CA
- International Neurotoxicology Association, Budapest, Hungary
- The Genetic and Environmental Toxicology Association of Northern California and the Northern California Chapter, Society for Risk Analysis, Oakland, CA

**1998**

- American Association for Cancer Research, New Orleans, LA
- Division of Toxicology, Massachusetts Institute of Technology, Boston, MA
- Dartmouth Medical School

**1999**

- American Association for Cancer Research, 90<sup>th</sup> Annual Meeting, Philadelphia, PA, April 10-14. “Genetic polymorphism of N-acetyltransferase 2 and the risk of brain tumors”; “*CYP1A1* genotype and somatic mutation in a Caucasian lung cancer population”; “*K-ras* mutation and female gender in non-small cell lung cancer”; “*p53* codon 72 polymorphism and lung cancer”.u
- John B. Little Center Symposium, Harvard School of Public Health, Boston, MA

**2000**

- American Association for Cancer Research, 91<sup>st</sup> annual meeting, San Francisco, CA, April 1-5. “Polymorphisms in the DNA repair genes *XRCC1* and *ERCC2* and biomarkers of DNA damage”; “A positive association between *GSTP1* polymorphism and early age onset lung carcinoma”; “Early smoking and increased DNA adduct burden predict LOH at 3P21 in NSCLC”; “The association of the combined genotypes of *P53*, *CYP1A1*, *GSTM1*, *GSTT1* with lung cancer risk”; “*XRCC1* genotype and non-melanoma skin cancer: Results from a case-control study”; “Promoter methylation of *P16<sup>INK4A</sup>* may play a role in the development of squamous cell lung cancer in cigarette smokers”; “Chromosome 3P21 loss and abnormal *P53* staining in non-small cell lung cancer”; “*GSTM1* and *ADH3* genetic polymorphisms and the risk of head and neck cancer”; “Association of the NAD(P)H: quinone oxidoreductase polymorphism with lung cancer susceptibility”.
- Massachusetts Eye and Ear Infirmary

**2001**

- 16th Regional Cancer Research Symposium, Vermont Cancer Center
- American Association for Cancer Research, 92<sup>nd</sup> Annual Meeting, New Orleans, LA, March 24-28. “Gene-environment interaction: Sunburn and the *XRCC1 Arg399Gln* polymorphism”; “Ethnicity delineates different genetic pathways inactivating *p53* in malignant glioma”; “Polymorphisms that influence microsomal epoxide

hydrolase activity are associated with *p53* mutation-positive gliomas”; “X-ray repair cross-complementing gene 1 (*XRCC1*) polymorphisms and the risk of bladder cancer”.

- Radiation Research Annual Meeting, April 21-26
- IARC Workshop, Lyon, France, November 14-17
- The National Cancer Institute, Washington, DC, November 28-30

## 2002

- American Association for Cancer Research, 93<sup>rd</sup> Annual Meeting, San Francisco, CA, April 6-10. “*CYP1A1* variants in African American and Hispanic American lung cancer cases and controls”
- ASA Conference on Radiation and Health, June 23-26
- NCI Workshop on Childhood Cancer, May 13-14
- Boston University School of Public Health
- Colorado State University, Cell and Molecular Biology Graduate Program, Fort Collins, CO
- University of Washington, Seattle, Superfund Basic Research Group
- University of California, Irvine, CA
- University of Washington, Occupational Medicine
- John B. Little Center Symposium, Harvard School of Public Health, Boston, MA
- American Association for Cancer Research – Frontiers in Cancer Prevention Research, Boston, MA, October 14-18. “*p53* alteration in a population-based study of bladder cancer in New Hampshire.”

## 2003

- American Association for Cancer Research, 94<sup>th</sup> Annual Meeting, Washington, DC, July 11-14. “Loss of protein expression and promoter CpG island hypermethylation of *PTEN* in oral and non-small cell lung cancers”; “Genetic susceptibility, smoking and gene-environment interactions in head and neck cancer”; “Methylation of a transcribed *PTEN* pseudogene (*ΨPTEN*) in pediatric leukemia is associated with subtypes of common ALL containing t(12;21) translocation”.

## 2004

- American Association for Cancer Research, 95<sup>th</sup> Annual Meeting, Orlando, FL, March 27-31. “Teenage smoking is associated with alterations of chromosome 3p21.3 in non-small cell lung cancer”; “Increased *RASSF1A* methylation among light drinkers and smokers with head and neck squamous cell carcinoma”; “Inflammation, genetic polymorphisms in pro-inflammatory genes *RANTES*, *CCR5*, and *TNF-a*, and risk of pancreatic adenocarcinoma”; “The alcohol dehydrogenase 3 polymorphism is associated with an increased alcohol/tobacco-associated risk of oral and pharyngeal carcinomas”.
- American Association for Cancer Research, Chromatin, Chromosomes and Cancer Epigenetics, Waikoloa Village, HI, November 10-14

## 2005

- Brown University, Pathobiology Training Program Retreat. “Carcinogen exposure and the pattern of somatic gene alteration in solid tumors”
- Environmental Protection Agency, Region I, Boston, MA. “Arsenic Exposure and Pattern of Somatic Gene Inactivation in Bladder Cancer”
- American Association for Cancer Research 96<sup>th</sup> Annual Meeting, Anaheim, CA, April 16-20
- Institute of Medicine, The Committee on Asbestos: Selected Health Effects. “Disruption of Cellular Pathways in Carcinogenesis”
- Boston Medical Center, Cancer Prevention & Control Grand Rounds. “Squamous Cell Carcinoma of the Head and Neck: Advances in Understanding Susceptibility and in Early Detection”
- (*Bioinformatics Forum*) “Analysis of methylation silencing at multiple loci from multiple tumor types”
- Collegium Ramazzini – “Framing the Future in Light of the Past: Living in a Chemical World”, Bologna, Italy, September 18-21
- Environmental Epigenomics Conference, Durham, NC, November 2-4

## 2006

- Cancer Epidemiology Program of the Dana-Farber/Harvard Cancer Center. “Human papilloma virus in head and neck cancer”
- Superfund Basic Research Program Annual Meeting: Research Translation and Megasites, Institute of Medicine, New York, NY. “Molecular epidemiology of arsenic and bladder cancer”

- American Association for Cancer Research, 97<sup>th</sup> Annual Meeting, Washington, DC, April 1-5. “A promoter hypermethylation profile of solid tumors: Implications for a methylator phenotype and diagnostic utility”; “SFRP5 silencing predicts poor survival in human mesothelioma”.
- The Lung Biology COBRE, The Epidemiology and Chemoprevention Research Program and the Norris Cotton Cancer Center, Dartmouth Medical School, Lebanon, NH. “Carcinogen-associated epigenetic alterations in solid tumors”
- Mount Sinai Medical Center/Department of Oncological Sciences and the Center of Excellence in Epidemiology, Biostatistics and Disease Prevention, New York, NY. “Carcinogen Exposure and the Pattern of somatic Gene Inactivation in Solid Tumors”
- Brown University/Department of Pathology and Laboratory Medicine, Providence, RI. “The Epidemiology of Somatic Alterations in Exposure-Related Solid Tumors.”

## 2007

- American Association for Cancer Research, Advances and Challenges in Aerodigestive Epithelial Cancer: Genetics, Diagnosis, and Therapy, Charleston, SC, February 6-9
- American Association for Cancer Research Annual Meeting, Los Angeles, CA, April 14-18
- Gordon Research Conference on Toxicogenomics, Colby-Sawyer College, New London, NH, June 2007. “Carcinogen-associated epigenetic silencing”

## 2008

- Laboratory of Molecular Carcinogenesis Seminar Series, National Institute of Environmental Health Sciences (NIEHS) sponsored by the NIH, Research Triangle Park, NC, “Epigenetics in Molecular Epidemiology” May 27
- Boston University, Goldman School of Dental Medicine, Boston, MA. “Integrative Genetics of Head and Neck Cancer” September
- BUCKDM (Brown University, UMASS, UCSF, Kaiser, Dartmouth, University of Minnesota), Collaborative Methylation Collaboration Retreat, June 30 – July 1
- Squamous Cell Head and Neck Cancer and the Human Papillomavirus State of the Science Meeting, Sponsored by the NCI, Washington, DC, “*Is there a Candidate Gene for HPV Susceptibility in HNSCC?*” November 8-10
- 7<sup>th</sup> Annual Environmental Health Scholar Retreat, Academic Pediatric Association, Reston, VA December 5-7 “*Epigenetics*”

## 2009

- Columbia University NIEHS Center Seminar Series, Columbia Mailman School of Public Health. “*Somatic Epigenetics of Lung Cancer*” March 5, 2009
- Kimmel Cancer Center, Thomas Jefferson University. May 27, 2009
- National Cancer Institute, New England Bladder Cancer Investigators Meeting, “*Epigenetic gene inactivation in bladder cancer*”, June 4, 2009
- SAB meeting (Taconite) Minneapolis MN, June 15-16, 2009
- Spanish National Cancer Research Centre, Bladder cancer research: the potential for a multidisciplinary integrative approach, “*Epidemiology of epigenetic gene inactivation in bladder cancer*” June 29-30, 2009
- Sixth International Symposium on Recent Advances in Environmental Health Research, Jackson State University, Jackson Mississippi. “*Epigenetics in Environmental Health*” September 13-16, 2006.

## 2010

- Boston University School of Public Health, Department of Environmental Health Seminar Series. “*Biomarkers of asbestos exposure and mesothelioma*” February 10, 2010
- American Association for Cancer Research 101<sup>st</sup> Annual Meeting “*Epigenetic alterations in head and neck squamous cell carcinoma*” April 20, 2010.
- Am Assoc Cancer Res; Cancer Epigenetics, 2010 “*Breast carcinoma DNA methylation profiles are associated with tumor size, alcohol intake, and folate intake.*”
- American Association for Cancer Research, 2010 “*Downregulated MicroRNAs in the Differential Diagnosis of Malignant Pleural Mesothelioma*”
- American Association for Cancer Research, 2010. “*LINE1 methylation and bladder cancer risk among Shanghai Chinese*”

- American Association for Cancer Research, 2010.  
“*Concurrent gene promoter hypermethylation and allele loss occurs infrequently in head and neck squamous cell carcinomas*”
- American Association for Cancer Research, 2010.  
“*Breast carcinoma DNA methylation profiles are associated with tumor size, alcohol intake, and folate intake*”
- Sloan Kettering Cancer institute, August 2, 2010  
“*Epigenetic Epidemiology*”
- Tufts New England Medical Center December 20, 2010  
“*Molecular Epidemiology of Head and Neck Cancer*”
- 10<sup>th</sup> International Conference of International Mesothelioma Interest Group, Japan, 2010  
“*Somatic Alterations in Mesothelioma*”
- 26th International Papillomavirus Conference & Clinical & Public Health Workshops, Montreal, 2010.  
“*HPV in Head and Neck Cancer*”

## 2011

- UK Molecular Epidemiology Group (MEG)-Sponsored Workshop on Epigenetics and the Environment. University of Leeds, United Kingdom. December 14,  
“*DNA methylation and next generation immunotoxicology*”
- American Association for Cancer Research, 2011  
Meet the Expert Session  
“*Using Genome-Wide Methylation Data in Epidemiologic Studies of Lung Cancer*”
- American Association for Cancer Research, 2011  
“*A Novel Method for the Detection of Circulating NK Cells in Archived Blood Reveals a Decrease in NK Cells in Head and Neck Cancer*”
- American Association for Cancer Research, 2011  
“*Biomarkers of HPV in Head and Neck Cancer*”
- American Association for Cancer Research, 2011  
“*Immune Biology Drives Cancer Specific Methylation Profiles in Blood*”

## 2012

- Visiting Professor/Grand Rounds, Lombardi Cancer Center , Georgetown University Medical Center, January 13  
“*Biomarkers of HPV in Head and Neck Cancer*”
- University of Michigan School of Public Health, Department of Environmental Health, Ann Arbor Michigan  
Epigenetics Research Seminar Series, May 2  
“*Epigenetic Epidemiology and the Immune System*”
- The Tisch Cancer Institute of the Mount Sinai School of Medicine, New York, NY.  
Epigenetic Seminar Series, May 25  
“*Epigenetic Epidemiology and the Immune System*”

## 2013

- Participant, Environmental Defense Fund Research meeting  
“*Epidemiology in Tox21*”
- University of Pittsburgh Cancer Center  
“*Biomarkers of HPV in Head and Neck Cancer*”
- Stony Brook School of Medicine  
“*Epigenetic Epidemiology and the Immune System*”

## 2014

- Proctor and Gamble  
“*Epigenetic Epidemiology and the Immune System*”
- Boston University School of Dentistry  
“*Biomarkers of HPV in Head and Neck Cancer*”

## 2015

- University of Massachusetts, Department of Epidemiology  
“*Epigenetic Epidemiology and the Immune System*”
- NIH Workshop on Aging  
“*Epigenetics of Aging*”

## 2016

-University of Oregon Institute for Occupational Health Sciences  
"DNA Methylation Biomarkers of Immune Cells: Implications for Epidemiology"  
-Tufts University, Community Medicine  
"Immunomethylomics"

## 2017

-NIH, The Environmental Determinants of Diabetes in the Young Study  
"Immunomethylomics: A Novel Approach to the Epidemiology of Immune Alterations in Diabetes"  
-NIEHS, Genome Integrity & Structural Biology Laboratory  
"Immunomethylomics and Immune Epidemiology"  
-Boston University, School of Dental Medicine  
"Immune Epidemiology"  
-Mt. Sinai School of Medicine, Preventive Medicine  
"Single Nucleotide Polymorphisms in Head and Neck Cancer"  
-Aspen Conference on Lung Biology, Convened by the University of Colorado  
"Immunomethylomics and lung biology"  
-NIH, The Study of Early Determinants of type 1 Diabetes  
"Immunomethylomics in Diabetes"

## 2018

-University of Kansas, Department of Biostatistics  
"Myeloid-Derived Suppressor Cells and Methylation Cytometry"

## 2019

- AACR Annual Meeting, Atlanta GA
- *Chrysotile asbestos fibers in tissue adjacent to laryngeal squamous cell carcinoma in cases with a history of occupational asbestos exposure*
- *Immune profiles in the San Francisco Adult Glioma Study using Immunomethylomics*
- *Cytomegalovirus (CMV) reactivation and patient survival in head and neck cancer*
- *Immune cell proportions and risk of pancreatic cancer using prediagnostic bloods*
- *DNA methylation cytometry reveals cancer survival related to cell composition*

## 2020

- Endocrine Society's Annual Meeting
- *Prenatal Perfluorooctanoic Acid Exposure Is Associated with Childhood Adiposity Trajectories*

## 2021

-Molecular Pathologic Epidemiology International Meeting  
-*Defining the Methylation Profile of Lymphocyte Memory Yields an Enhanced Library for Deconvolution of Peripheral Blood*

Case Comprehensive Cancer Center

-*Immunoepidemiology: Peripheral Blood Immune Profiles Generated using DNA Methylation in Cancer Epidemiology*

## 2022

- Lagoretta Cancer Center
- Methylation Cytometry: a revolutionary platform for detailed immune profiling and biomarker development*

## Part III: Bibliography

### Original Articles

1. Wiencke, JK, **Kelsey, K**, Kreiger, R, and Garry, VF. Serum- and plasma-dependent variations of benzo(a)pyrene-induced sister chromatid exchange in human lymphocytes. *Basic Life Sci* 29:715-28, 1984.

2. **Kelsey, KT**, and Christiani, DC. Approach to asbestos worker compensation plan alleged to be flawed [letter]. *J Occ Med* 27:790-91, 1985.
3. **Kelsey, KT**, Yano, E, Liber, HL, and Little, JB. The *in vitro* genetic effects of fibrous erionite and crocidolite asbestos. *Br J Cancer* 54:107-14, 1986.
4. **Kelsey, KT**, Christiani, DC, and Little, JB. Enhancement of beno[a]pyrene-induced sister chromatid exchanges in lymphocytes from cigarette smokers occupationally exposed to asbestos. *J Natl Cancer Inst* 77:321-27, 1986.
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6. **Kelsey, KT**, Wiencke, JK, Little, FF, Baker, EL Jr, and Little, JB. Effects of cigarette smoking and solvent exposure on sister chromatid exchange frequency in painters. *Environ Mol Mutagen* 11:389-99, 1988.
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11. **Kelsey, KT**. Cytogenetic techniques for biological monitoring. *Occup Med* 5:39-47, 1990.
12. Wiencke, JK, **Kelsey, KT**, Lamela, RA, and Toscano, WA Jr. Human glutathione S-transferase deficiency as a marker of susceptibility to epoxide-induced cytogenetic damage. *Cancer Res* 50:1585-90, 1990.
13. **Kelsey, KT**, Smith, TJ, Hammond, SK, Letz, R, and Little, JB. Sister chromatid exchanges in lymphocytes from styrene-exposed boat builders. *Mutat Res* 241:215-21, 1990.
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16. Wiencke, JK, Christiani, DC, and **Kelsey, KT**. Bimodal distribution of sensitivity to SCE induction by diepoxybutane in human lymphocytes. I. Correlation with chromosomal aberrations. *Mutat Res* 248:17-26, 1991.
17. **Kelsey, KT**, Christiani, DC, and Wiencke, JK. Bimodal distribution of sensitivity to SCE induction by diepoxybutane in human lymphocytes. II. Relationship to baseline SCE frequency. *Mutat Res* 248:27-33, 1991.
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21. **Kelsey, KT**, Donohoe, KJ, Baxter, B, Memisoglu, A, Little JB, Caggana, M, and Liber, HL. Genotoxic and mutagenic effects of the diagnostic use of thallium-201 in nuclear medicine. *Mutat Res* 260:239-46, 1991.
22. **Kelsey, KT**, Memisoglu, A, Frenkel, D, and Liber, HL. Human lymphocytes exposed to low doses of X-rays are less susceptible to radiation-induced mutagenesis. *Mutat Res* 263:197-201, 1991.

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#### Web-based Opinion Pieces

1. <http://blogs.reuters.com/environment/2010/05/10/environmental-cancers-still-a-wild-card/>

#### PATENTS AND COMMERCIAL PRODUCTS

1. US Patent: Christensen, B.C., Kelsey, K.T. *Diagnosing, prognosing, and early detection of cancers by DNA methylation profiling*. **USPTO #: 61/174,670.**
2. US Patent: Marsit, C.J., Karagas, M.R., Andrew, A.S, Liu, M., Kelsey, K.T. *Compositions and Methods for Detecting Markers of Cancer*. **USPTO Application #: 20090155786**
3. PCT/US2012/039699 and the title is "Methods Using DNA Methylation for Identifying a Cell or a Mixture of Cells for Prognosis and Diagnosis of Diseases, and for Cell Remediation Therapies." United States, Serial No. 14/089,398 filed 11/25/13. European Patent, Serial No. 12789375.8 filed 10/7/13. Canada, Serial No, 2,869,295 filed 5/25/12
4. PCT/US17/58470. Method to measure myeloid suppressor cells in human blood and tissues for diagnosis and prognosis of cancer