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  University of Minnesota, Minneapolis, MN
1981  M.D., Medicine  University of Minnesota, Minneapolis, MN
1984  M.O.H, Occupational Health  Harvard University, Boston, MA

Postdoctoral Training:
1981–1982  Resident  Diagnostic Radiology  Mt. Zion Hospital and Medical Center, San Francisco, CA
1982–1983  Postdoctoral Fellow  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

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

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
- **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
- **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 2019-2021)**
  Conflict of Interest Review Board
  Committee Member, Brown University
- **1990–1991**
  Advisory Committee to the State of Massachusetts for Regulating Radionuclide Emissions from Power Plants
  Advisor, Commonwealth of Massachusetts
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

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

International

1999–Pres.
Cancer Research Campaign (CRC)
Reviewer, CRC, UK

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

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 II”
Testimony before the House Committee on Veterans’
Affairs, May 5, 2021
“Toxic Exposures in the Military”
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, American Journal of Industrial Medicine
- 2007–Pres. Editorial Academy, International Journal of Oncology
- 2008-Pres. Associate Editor, Occupational and Environmental Medicine

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

| Year     | Grant Description                                                                 |
|----------|-----------------------------------------------------------------------------------|
| 1986–1987| NIEHS Center Pilot Project, HSPH                                                  |
| 1987–1989| Biomedical Research Support Grant, HSPH                                             |
| 1988–1989| The Boston Globe                                                                 |
| 1988–1990| Centers for Disease Control                                                       |
| 1989–1990| NIEHS Center Pilot Project, HSPH                                                  |
| 1989–1991| Department of Energy                                                              |

Follow-up Study of the Genotoxicity of Chronic Inhalation Exposure to Ethylene Oxide in a Non-Human Primate Model
A Study of the Significance of Ethylene Oxide-Induced Persistent Cytogenetic Changes in a Non-Human Primate Model
Descriptive Survey of Pressman and Paperhandlers at Boston Globe
Chromosomal Changes after Ethylene Oxide Exposure
Hodgkin’s Therapy, Genetic Damage and Cancer Risk
In Vivo Mutagenicity and Clastogenicity of Ionizing Radiation in Nuclear Medicine
| Year(s) | Sponsor(s)                                | Role | Project Description                                                                 |
|--------|------------------------------------------|------|-------------------------------------------------------------------------------------|
| 1991–1992 | Centers for Disease Control             | PI   | In Vivo 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  | “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 | 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
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

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 – Instructor
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
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

2008-2021
*Topics in Environmental Health*
Brown University
Instructor
22 - 72 students
24 hours/yr

2014
*Cancer Epidemiology*
Brown University of Public Health
Instructor
Spring
12 Students
24h/yr

2017-2022
*Biology in Public Health*
Instructor
Spring
8 – 18 Students
24hr/yr

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**Trainees:**

**PAST TRAINEES**

| Names           | Positions      | Dates      | Current Position                                                                                                                                 |
|-----------------|----------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Applebaum, K.M. | Postdoctoral   | 2007       | Associate Professor, George Washington University Milikan Institute School of Public Health Deputy Director, Division of Genetics         |
| Caggana, M      | Pre-doctoral   | 1987-1991  | 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 / | 2002-2006  | Researcher, Medical Oncology/Population Sciences, Dana                                                                                         |
| Name             | Position / Dates                  | Institution / Position Description                                      |
|------------------|-----------------------------------|---------------------------------------------------------------------------|
| Hasegawa, M.     | Post-doctoral 2001-2002           | Farber Cancer Institute, Boston, Massachusetts                             |
| Hirao, S.        | Post-doctoral 2002-2004           | Senior Surgeon, Chiba University School of Medicine, Chiba, 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 / 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 |
| McClean, 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 2003-2008-2011 | 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.        | Predoctoral 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           | Assistant Professor of Epidemiology, Dept. of Environmental Health, University of Cincinnati. |
| Accomando, 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            | Post-Doctoral Fellow, EPA                                                |

CURRENT TRAINEES

Names

| Positions       | Dates   | Source of Funding |
|-----------------|---------|-------------------|
| Isabella Berglund-Brown | Brown Medical student | 2020-pres | grant |

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
- 77th 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, 90th 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”
- John B. Little Center Symposium, Harvard School of Public Health, Boston, MA

2000
- American Association for Cancer Research, 91st 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 P16INK4A 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, 92nd Annual Meeting, New Orleans, LA, March 24-28. “Gene-environment interaction: Sunburn and the XRCC1 Arg399Gin 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, 93rd 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, 94th 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 (yPTEN) in pediatric leukemia is associated with subtypes of common ALL containing t(12;21) translocation”.

2003
11

2004
- American Association for Cancer Research, 95th 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 96th 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, 97th 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
- 7th 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 101st 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”
- 10th 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
- *Immuonepidemiology: Peripheral Blood Immune Profiles Generated using DNA Methylation in Cancer Epidemiology*

Part III: Bibliography

**Original Articles**

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