

## Curriculum Vitae

**Date Prepared:** December 2020  
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**Place of Birth:** USA

### Education

1979	B.S.	Nursing	University of Southern Maine
1985	M.S.	Environmental Health	University of Minnesota
1986	M.P.H.	Epidemiology	University of Minnesota
1992	Sc.D.	Epidemiology	Harvard School of Public Health

### Predoctoral and Postdoctoral Training

1989-92	Teaching Fellow	Epidemiology	Harvard School of Public Health
1992-93	Research Fellow	Epidemiology	Harvard School of Public Health

### Faculty Academic Appointments

1992-93	Research Associate	Medicine	Harvard Medical School
1993-95	Instructor	Medicine	Harvard Medical School
1993-95	Research Associate	Epidemiology	Harvard School of Public Health
1995-99	Assistant Professor	Medicine	Harvard Medical School
1996-00	Assistant Professor	Epidemiology	Harvard School of Public Health
2000-09	Associate Professor	Medicine	Harvard Medical School
2001-09	Associate Professor	Epidemiology	Harvard School of Public Health
2009-11	Professor	Medicine	Harvard Medical School
2009-11	Professor	Epidemiology	Harvard School of Public Health
2011-	Professor	Epidemiology	University of Massachusetts Amherst Harvard T.H. Chan School of Public Health
2011-20	Adjunct Professor	Epidemiology	
2020-	Distinguished Professor	Epidemiology	University of Massachusetts Amherst

### Appointments at Hospitals/Affiliated Institutions

1992-2000	Associate Epidemiologist	Medicine	Brigham and Women's Hospital
2000-2016	Epidemiologist	Medicine	Brigham and Women's Hospital

## Other Professional Positions

1979-80	Staff Nurse	General surgery	Massachusetts General Hospital
1980-85	Staff Nurse	Surgical ICU	University of Minnesota Hospitals
1985	Epidemiologist	Chronic Disease Epidemiology Section	Minnesota Department of Health
1986	Consultant in Epidemiology		Massachusetts Department of Public Health
1986-88	Research Specialist	Department of Epidemiology	Harvard School of Public Health
1988-92	Research Manager	Channing Laboratory	Brigham and Women's Hospital

## Major Administrative Leadership Positions

### Local

2006-11	Co-Leader	Cancer Epidemiology Program	Dana-Farber/Harvard Cancer Center
2015-2018	Chair	Department of Biostatistics and Epidemiology	School of Public Health & Health Sciences (SPHHS) University of Massachusetts Amherst
2016 (fall semester)	Interim Chair	Department of Environmental Health Science	SPHHS, University of Massachusetts Amherst
2019-	Associate Dean for Research	School of Public Health & Health Sciences	University of Massachusetts Amherst

## Committee Service

### Local and Regional

1995-2003	Member	Scientific Peer Review Committee for the Cape Cod Breast Cancer and the Environment Study	Massachusetts Department of Public Health
1996-2011	Member	Admissions Committee, Department of Epidemiology	Harvard School of Public Health
1999	Convener and Moderator	Planning Committee: Workshop on Insulin-like Growth Factors Harvard Center for Cancer Prevention	Harvard School of Public Health
1999-2004	Member	Planning Committee: Harvard Center for Cancer Prevention	Harvard School of Public Health
2000-01	Member	Committee on Policy for Outside Teaching	Harvard School of Public Health
2000-04	Member	Statewide Breast Cancer Study Advisory Committee	Massachusetts Department of Public Health
2000-02	Member	Search Committee for Assistant/Associate Professor of Environmental Epidemiology, Department of Environmental Health	Harvard School of Public Health

2001-05	Member	Committee on Admissions and Degrees	Harvard School of Public Health
2002-07	Member	Research Committee, Center of Excellence in Women's Health	Harvard Medical School
2004-10	Member	Executive Committee: Ovarian Cancer Specialized Program of Research Excellence (SPORE)	Harvard Medical School/Brigham and Women's Hospital
2006-11	Co-leader	Cancer Research Center: Brigham Research Institute (BRI)	Brigham and Women Hospital
2006-11	Member	Breast Program/SPORE Steering Committee	Brigham and Women Hospital/ DF/HCC
2006-11	Leader	Cancer Epidemiology Concentration, Department of Epidemiology	Harvard School of Public Health
2007-11	Member	Executive Committee: Channing Laboratory, Department of Medicine	Brigham and Women's Hospital
2008	Organizer and Chair	Workshop entitled "Incorporating novel tumor tissue analyses into population-based studies of human cancer."	Dana Farber/Harvard Cancer Center and Harvard School of Public Health
2008	Chair	Search committee for Assistant/Associate Professor of Viruses and Cancer, Department of Epidemiology	Harvard School of Public Health
2009-10	Member	Search committee for Assistant/Associate Professor of Cancer Epidemiology, Department of Epidemiology	Harvard School of Public Health
2011-	Member	Grant Review Board, Rays of Hope Center for Breast Cancer Research	Pioneer Valley Life Sciences Institute/Baystate Medical Center
2011-13	Member	Department of Public Health Curriculum Committee	UMASS Amherst
2011-2018	Member	Public Health Undergraduate Advisory Committee	UMASS Amherst
2011-2015	Coordinator	Epidemiology Seminar Series	UMASS Amherst
2011-14; 2016	Coordinator	Doctoral Comprehensive Exam in Epidemiology	UMASS Amherst
2012	Chair	Internal Search Committee for Chair of Public Health	UMASS Amherst
2012	Member	Environmental Health Faculty Search Committee (2 positions)	UMASS Amherst
2012	Chair	School of Public Health and Health Sciences, Dean Review Committee	UMASS Amherst
2012-15	Presiding Officer	School of Public Health and Health Sciences, Faculty Assembly	UMASS Amherst
2012-2018	Chair	External Advisory Board, Epidemiology of Breast Cancer in African-American Women: A Consortium	National Cancer Institute: P01 CA151135, Roswell Park Cancer Center
2012-17	Scientific Advisor	Boston Center for Endometriosis	Boston Children's Hospital /HMS/BWH
2013-15	Member	Epidemiology Program Curriculum Committee	UMASS Amherst

2013-14	Member	Personnel Committee, Biostatistics and Epidemiology Division, SPHHS	UMASS Amherst
2015-18; 2019-	Member	Executive Committee, SPHHS	UMASS Amherst
2016-19	Member	SPHHS Dean's Advisory Board	UMASS Amherst
2016	Chair	Environmental Health Sciences Department, Chair Search Committee	UMASS Amherst
2019	Member	School of Nursing, Dean Search Committee	UMASS Amherst
2019	Member	Search Committee for the Associate Dean for Administration and Finance, SPHHS	UMASS Amherst

### National and International

1997	External Examiner	Thesis Defense: Biomarkers and Risk of Myocardial Infarction	Oxford University, England
1997-2005	Member	Biologic Specimen Advisory Group	American Cancer Society
2005-1999	Chair Thesis Opponent	Biologic Specimen Advisory Group Thesis Defense: Hormonal Factors and Risk of Endometrial Cancer	American Cancer Society Karolinska Institute, Stockholm, Sweden
2000-02	Member	External Scientific Advisory Committee for initiation of a cohort of Hispanic adults	M.D. Anderson Cancer Center Houston, TX
2001	Member	Canadian Breast Cancer Initiative Advisory Panel	Canadian National Cancer Institute
2002	Co-chair	Planning Committee, 1st International Symposium on Cancer Prevention	Chagnon Foundation, Canada
2002-12	Member	The Endogenous Hormones and Breast Cancer Collaborative Group	International group constituted to pool the world's prospective data on endogenous hormones and breast cancer
2002	Member	2002 Annual Meeting, Epidemiology Program Subcommittee	American Association for Cancer Research (AACR)
2003	Ad Hoc Member	Board of Scientific Counselors	National Eye Institute, NIH
2003-06	Member	External Scientific Advisory Committee	Australian Ovarian Cancer Study (AOCS), Brisbane, Australia
2004	Thesis Opponent	Thesis Defense: Endogenous hormones in the etiology of ovarian and endometrial cancers	University of Umea, Sweden
2004-05	Member	Committee on the Disposition of the Air Force Health Study	National Academy of Science
2005-10	Member	Scientific Advisory Board	DaCosta International Fund for Breast Cancer Prevention
2005-06	Member	Steering Committee on Advances in Collecting and Utilizing Biologic Indicators in Social Science Surveys	National Academy of Science

2006	Member	Invited expert on talc and ovarian cancer: IARC Monograph on the Evaluation of Carcinogenic Risk to Humans: Carbon black, titanium oxide, and non-asbestiform talc	IARC, Lyon, France
2006	Member	Scientific Review Committee, 5 <sup>th</sup> Annual Frontiers in Cancer Prevention Meeting	AACR
2006	Co-chair	“New Concepts in Breast Cancer Research” Symposium; 97 <sup>th</sup> Annual Meeting	AACR
2006-14	Member	International Scientific Review Committee	UK Biobank Project, Wellcome Trust, London
2006	Chair	Symposium on “Sex steroids and Cancer Risk”, 2 <sup>nd</sup> North American Congress of Epidemiology	Seattle, WA
2007-18	Member	Scientific Advisory Committee	NCI-sponsored Epidemiology of Endometrial Cancer Consortium (E2C2)
2008	Member	Search Committee for Vice President of Epidemiology	American Cancer Society
2010-	Member	External Scientific Advisory Committee, Breakthrough Generations Study	Institute of Cancer Research, London, UK
2010	Member	Scientific Advisory Board, 6 <sup>th</sup> International Symposium on Hormonal Oncogenesis	Tokyo, Japan
2010-16	Member	Selected as Komen Scholar	Susan G. Komen Foundation
2011-14	Member	Hormone Assays Taskforce	Endocrine Society
2011	Chair	Workshop: “Funding New Investigator-Initiated Epidemiologic Research in North America”, 3 <sup>rd</sup> North American Congress of Epidemiology	Montreal, Canada
2011	Member	Search committee for the Nutritional Epidemiology Branch Chief	National Cancer Institute
2012	Chair	Genetic and Molecular Epidemiology Subcommittee, Epidemiology Section, Program Committee for the 103 <sup>rd</sup> annual meeting	AACR
2013	Co-chair	Symposium: “Cancer in Women”, 46 <sup>th</sup> annual meeting	Society for Epidemiological Research
2014	Steering Committee Member	Advances in Endometrial Cancer Epidemiology and Biology Symposium	Boston, MA
2014	Session Moderator	Endometrial carcinogenesis. Advances in Endometrial Cancer Epidemiology and Biology Symposium	Boston, MA
2014	Member	Sex Steroid Assays Reporting Task Force	Endocrine Society
2014-15	Member	Education Committee	106 <sup>th</sup> Annual Meeting of AACR, 2015
2015-16	Member	Education Committee	107 <sup>th</sup> Annual Meeting of AACR, 2016

2015	Thesis opponent	Dissertation: “Breast cancer susceptibility genes and life style factors for mammographic density”	University of Oslo, Norway
2015	Invited Member	Rally for Medical Research Hill Day	Susan G. Komen Foundation Washington, DC
2015	Session Chair	“Diet, Energy Balance and Women’s Health”	48 <sup>th</sup> Annual SER meeting, Denver CO
2015-16	Chair- elect	Molecular Epidemiology Group (MEG)	AACR
2016-17	Chair	Molecular Epidemiology Group (MEG)	AACR
2016-17	Member	Search Committee for Professor of Epidemiology	The Institute of Cancer Research, London, UK
2017-18	Past Chair	Molecular Epidemiology Group (MEG)	AACR
2017-18	Member	Selection Committee, AACR-ACS Cancer Epidemiology and Prevention Annual Award	AACR
2018	Co-chair	2019 Annual Meeting Program Committee	AACR

### Professional Societies

1985	Member	Delta Omega Honorary Public Health Society (MN)
1986	Member	American Public Health Association
1986-	Member	Society for Epidemiologic Research
1999-	Member	American Association for Cancer Research
2002-	Member	American College of Epidemiology
2005-	Member	Women in Cancer Research (AACR-WICR)
2006-	Member (elected)	American Epidemiological Society
2012-	Member	Delta Omega Honorary Public Health Society (Rho Chapter)

### Grant Review Activities

1995-97	Member	Epidemiology Study Section	State of California Breast Cancer Research Program Review Committee
1995-97	Member	Epidemiology Peer Grant Review Committee	U.S. Army Breast Cancer Research Program
1998	Member	Grant Review Committee	Two Grants on Determinants of Insulin-like Growth Factor Levels, National Cancer Institute
1998	Member	Grant Review Committee	World Cancer Research Fund
1999	Member	Program Project on Hormonal and Nutritional Predictors of Cancer Risk, site visit team	National Cancer Institute

2000	Member	Special Emphasis Panel ZEY1-VSN-05	National Eye Institute
2000	Member	Ad Hoc Grant Review Committee	National Eye Institute
2000	Member	Peer Review Committee	Cooperative Family Registry for Breast Cancer Studies, National Cancer Institute
2001	Member	Peer Review Committee	US Army Ovarian Cancer Research Program
2002	Member	Canadian Breast Cancer Initiative Study Section	Canadian National Cancer Institute
2002	Member	California Cancer Research Program Study Section	California Cancer Research Program
2002	Member	Peer Review Committee	US Army Breast Cancer Research Program
2003	Member	Site Visit Grant Review Committee	Cancer Prevention Studies Branch, Center for Cancer Research, National Cancer Institute
2002-06	Member	Epidemiology of Cancer (EPIC; formerly EDC-2) Study Section	National Cancer Institute
2004	Member	Grant Review Committee	Medical Research Council, UK
2006	Member	IARC Monograph on the Evaluation of Carcinogenic Risk to Humans: Carbon black, titanium oxide, and non-asbestiform talc	Lyon, France; Invited expert on talc and ovarian cancer
2007	Member	Grant Review Committee	Medical Research Council, UK
2007-08	Ad hoc Member	Epidemiology of Cancer (EPIC) Study Section	National Cancer Institute (NCI)
2009	Scientific Reviewer	International Scientific Review Committee	Grant application, Wellcome Trust/Medical Research Council, London, UK
2010	Chair	Investigator Initiated Grants, Prevention and Early Detection Study Section	Susan G. Komen for the Cure
2011	Member	Ad Hoc Grant Review Committee	US Army Breast Cancer Research Integration Panel
2011	Member	Investigator Initiated Grants, Prevention and Early Detection Study Section	Susan G. Komen for the Cure
2013	Chair	Special Emphasis Panel ZRG1 PSE-R	NIH, Population Sciences and Epidemiology
2013	Member	Grant Review Committee	Breakthrough Breast Cancer Foundation, UK
2014	Member	Grant Review Committee	CBCF-CIHR Breast Cancer in Young Women Research Program Competition Toronto, Canada

2014	Member	Graduate Training in Disparities Grant Review Committee	Susan G. Komen Foundation
2014-15	Member	Career Catalyst and Postdoctoral Fellowship Grant Review; Clinical Committee	Susan G. Komen Foundation
2014-16	Member	Career Catalyst Grant Review; Basic/Translational Committee	Susan G. Komen Foundation
2017-2021	Member	Cancer, Heart, and Sleep Epidemiology Panel A Study Section (CHSA)	National Institutes of Health
2018	Member	Special Emphasis Panel (Scientific review of the Sister's Study Cohort)	National Institute of Environmental Health Sciences
7/2019-6/2021	Chair	Cancer, Heart, and Sleep Epidemiology Panel A Study Section (CHSA)	National Institutes of Health

### **Editorial Activities**

1999-04	Editorial Board and statistical editor	Journal of the North American Menopause Society
2002-	Editorial Board	Cancer Epidemiology Biomarkers and Prevention
2005-06	Associate Editor	Cancer Causes and Control
2005-06	Associate Editor	Breast Cancer Research
2006-08	Associate Editor	Cancer Research
2006-	Editorial Board	Breast Cancer Research
2007-08	Deputy Editor	Cancer Causes and Control
2008-12	Editorial Board	Cancer Research
2009-14	Founding Associate Editor	Hormones and Cancer
2014-	Editorial Board	Breast Cancer Research and Treatment

### **Honors and Prizes**

1989-92	National Research Service Award	National Institute of Environmental Health Sciences
1990	Student workshop	Society of Epidemiologic Research Annual Meeting, Selected as participant
1996-2000	Career Development Award	US Army MRMC Breast Cancer Research Program, Recipient
2011	Spotlight Scholar	UMASS Amherst
2017	Chancellor's Award for Outstanding Accomplishments in Research & Creative Activity	UMASS Amherst
2018-19	Samuel F. Conti Faculty Fellowship Award	UMASS Amherst
2020	Breast Cancer Distinguished Lectureship Award	American Association for Cancer Research



## **Report of Funded Projects**

### **Funding Information**

#### **Past**

1992-2000	Co-investigator	Dietary and hormonal determinants of cancer in women NIH/R01 CA40356
1995-97	Principle Investigator (PI)	Use of a single premenopausal blood sample to predict breast cancer risk Massachusetts Department of Public Health
1995-99	Co-Principal Investigator (Co-PI)	Biochemical markers in the Nurses' Health Study NIH R01 CA49449
1995-99	Co-investigator	Prospective study of risk factors for eye disease NIH R01 EY09611
1996-2000	PI	USARMC DOD Breast Cancer Research Program Career Development Award
1996-2001	Co-PI	Premenopausal hormone levels and risk of breast cancer NIH R01 CA67262
2000-03	PI	Urinary estrogen metabolites and breast cancer risk NIH R03 CA86271
2000-05	PI	Prospective study of risk factors for eye disease NIH R01 EY09611
2000-06	Project Leader	Dietary and hormonal determinants of cancer in women NIH P01 CA87969; P01 that funded the Nurses' Health Study; Project 3 (Ovarian Cancer)
2006-11	PI	Dietary and hormonal determinants of cancer in women NIH P01 CA87969; P01 that funded the Nurses' Health Study (\$26 million 5 year total cost [TC])
2005-16	Co-Investigator	Dietary and hormonal determinants of cancer in women NIH P01 CA87969 (Stampfer, PI)
2004-09	Project Leader	Ovarian Cancer Specialized Program in Research Excellence (SPORE) NIH P50 CA105009
2000-10	Project Co-leader	Breast Cancer Specialized Program in Research Excellence (SPORE) NIH P50 CA89393
2002-14	PI	Premenopausal hormone levels and risk of breast cancer NIH R01 CA67262 (most recent: \$4.0 million 5 year TC)
2011-15	Co-Investigator	Relationships between early life somatotype and breast cancer phenotype Bay State Health Research Incubator Fund
1999-2016	PI	Biochemical markers in the Nurses' Health Study; NIH R01 CA49449 (most recent: \$4.9 million 5 year TC)
2010-16	PI	Using breast tissue expression patterns to inform our understanding of risk factors for breast cancer Susan G. Komen Foundation Scholar Award (\$680k TDC)
2012-17	PI	Assessing the role of androgens in breast cancer risk. NIH R01 CA166666

2013-16	Co-Investigator	(\$1.8 million 4 year TC) Biomarkers and breast cancer risk prediction in young women NIH R01 CA178949 (Zeleniuch, PI)
2014-16	Co-Investigator	Depression, Antidepressant use, and Breast Cancer Risk. NIH RO3 CA186228 (Reeves, PI)
2015-18	Co-Investigator	Phthalate Metabolites and breast cancer risk in the Women's Health Initiative NIH R01 ES02473 (Reeves, PI)
2014-19	Co-Investigator	Predictors of Early Menopause NIH R01 HD078517 (Bertone-Johnson, PI)

### Current

2017-22	PI	Endogenous hormones and postmenopausal breast cancer: Etiologic insights and improving risk prediction NIH R01 CA207369 (\$4.3 million 5 year TC)
2017-21	contact PI (MPI: Kubzansky)	Development and application of a metabolomics profile of chronic distress to cardiometabolic risk NIH R01 AG051600 (\$1.8 million 4 year TC)
2018-21	Mentor (PI: S Houghton)	Central Adiposity in relation to breast cancer risk and survival NIH F32 CA224677

## **Report of Local Teaching and Training**

### **Teaching of Students in Courses**

(classes are graduate level and 2.5 (HSPH) or 3 (UMASS) credits each unless otherwise noted)

1992	Introductory Epidemiology (1 lecture)	Northeastern University
1992-98	Epidemiologic Methods (1 lecture)	Boston University School of Public Health
1992-98	Introductory Epidemiology (1 lecture)	Boston University School of Public Health
1993-97	Cancer Epidemiology (instructor)	Harvard School of Public Health
1993-97	Nutritional Epidemiology (co-instructor)	Harvard School of Public Health
1995	Principles of Epidemiology (instructor)	Harvard School of Public Health
1996-97	Practice of Epidemiology (co-instructor)	Harvard School of Public Health
1997-2001	Ophthalmic Epidemiology (1 lecture)	Harvard School of Public Health
1997-2011	Use of Biomarkers in Epidemiologic Research (developed and co-instructor)	Harvard School of Public Health
1998-99	Nutritional Epidemiology (co-instructor)	Harvard School of Public Health
1998-2000	Principles of Epidemiology (co-instructor)	Harvard School of Public Health
1998-2001	Use of Biomarkers in Epidemiologic Research (developed and led summer course)	University of Michigan, Ann Arbor, Graduate Summer Session in Epidemiology
1998-2005	Cancer Epidemiology (co-instructor)	Harvard School of Public Health

2003-06	Analysis of Case-Control and Cohort Studies (1 lecture)	Harvard School of Public Health
2006	Use of Biomarkers in Epidemiology (1 lecture)	Boston University School of Public Health
2011-2016	Cancer Epidemiology (1 guest lecture)	UMASS Amherst, SPHHS
2012-15, 2017-18, 2020	Chronic Disease Epidemiology (developed and led; undergraduate class)	UMASS Amherst, SPHHS
2015-2018	Epidemiology in Public Health (1 guest lecture)	UMASS Amherst, SPHHS
2017	Introduction to Public Health (3 guest lectures)	UMASS Amherst, SPHHS
2020	Epidemiology Graduate Seminar, 1 cr	UMASS Amherst, SPHHS

### **Primary Mentor to Post-doctoral Fellows**

1996-97	Lisa Chasan-Taber, ScD/ Professor and Chair, Department of Biostatistics and Epidemiology, University of Massachusetts School of Public Health and Health Sciences Postdoctoral Fellow, Harvard School of Public Health
2001-04	Eva Schernhammer, MD, ScD/ Professor and Chair, Department of Epidemiology, University of Vienna Medical School, Vienna, Austria Research fellow, Channing Laboratory, Brigham and Women's Hospital
2002-05	John Page, MD, ScD/ Scientist, Center for Observational Research, Amgen, CA Postdoctoral Fellow, Harvard School of Public Health
2003-05	Stacey Missmer, ScD/ Professor in Obstetrics and Gynecology, Michigan State University Medical School Postdoctoral Fellow, Harvard School of Public Health
2003-05	Shelley Tworoger, PhD / Senior Member and Associate Center Director of Population Science, Moffitt Cancer Center, Tampa, FL Postdoctoral Fellow, Harvard School of Public Health
2003-09	Margaret Gates, MS, ScD / Assistant Professor, University of Albany Doctoral Student and Postdoctoral Fellow, Harvard School of Public Health
2004-06	Akila Viswanathan, M.D., MPH / Professor and Executive Vice Chair, Department of Radiation Oncology, Johns Hopkins School of Medicine Postdoctoral Fellow, Dana Farber Cancer Institute
2010-11	Renee Fortner, PhD / Fellow, Hormones and Cancer Group, German Cancer Research Center, Heidelberg, Germany Postdoctoral fellow, Harvard School of Public Health
2010-12	Thomas Ahern, PhD / Assistant Professor of Epidemiology, University of Vermont College of Medicine Postdoctoral fellow, Harvard School of Public Health
2010-12	Xuehong Zhang, MD, ScD / Assistant Professor, Harvard Medical School Research fellow, Channing Laboratory, Brigham and Women's Hospital

- 2013-16 Jun Wang, MD, PhD / Research Assistant Professor, Department of Preventive Medicine, University of Southern California  
Postdoctoral fellow, University of Massachusetts Amherst
- 2014-15 Marquis Hawkins, PhD / Assistant Professor, University of Pittsburgh, Pittsburgh PA  
Postdoctoral Fellow, University of Massachusetts Amherst
- 2016- Serena Houghton, PhD  
Current Postdoctoral Fellow, University of Massachusetts Amherst

**Primary Academic Advisor to Masters and Doctoral Students**

- 1994-99 Eunyoung Cho, RD, ScD/ Associate Professor of Dermatology, Brown University  
Doctoral Student, Harvard School of Public Health
- 1996-99 Elizabeth Bertone-Johnson, ScD/ Professor, Department of Biostatistics and Epidemiology;  
Chair Department of Health Promotion and Policy, University of Massachusetts, Amherst  
Doctoral Student, Harvard School of Public Health
- 1997-2000 June Weintraub, ScD/ Senior Epidemiologist and Manager, Air, Water, Noise, Radiation and  
Smoking Programs, San Francisco Department of Public Health, CA  
Doctoral Student, Harvard School of Public Health
- 1997-2001 Jae Hee Kang, ScD/ Assistant Professor of Medicine, Harvard Medical School  
Doctoral Student, Harvard School of Public Health
- 1998-2000 Kathleen Fairfield, MD, ScD/ Director of Research, Center for Outcomes Research and  
Evaluation, Maine Medical Center and Associate Professor of Medicine, University of  
Vermont College of Medicine  
Doctoral Student, Harvard School of Public Health
- 1999-2004 Heather Eliassen, ScD/ Associate Professor of Medicine, Harvard Medical School  
Doctoral Student, Harvard School of Public Health
- 2002-06 Kim Danforth, ScD/ Research Scientist, Kaiser Permanente, CA  
Doctoral Student, Harvard School of Public Health
- 2003-07 Margaret Gates, MS/ Assistant Professor, Department of Epidemiology and Biostatistics,  
University of Albany  
Doctoral Student, Harvard School of Public Health
- 2004-09 Xiaohui Cui, MS/Epidemiologist III, MA Department of Public Health  
Doctoral Student, Harvard School of Public Health
- 2005-08 Simone Pinheiro, MS/ Associate Director, Division of Epidemiology, US Food and Drug  
Administration  
Doctoral Student, Harvard School of Public Health
- 2008-13 Sarah Aroner, PhD/Postdoctoral Fellow, Harvard School of Public Health  
Doctoral student, Harvard School of Public Health
- 2012-13 Alex Kintu, MD, MS / Doctoral Student, Harvard School of Public Health  
Masters student, UMASS Amherst
- 2012-14 Susan Boyer, PhD/ Adjunct Faculty, University of Massachusetts Amherst  
Doctoral student, UMASS Amherst

2012-14	Phin Has, MS Masters student, UMASS Amherst
2012-15	Laura Yochum, MS Doctoral student, UMASS Amherst
2014-18	Anahita Hadioonzadeh, MS Doctoral Student, UMASS Amherst
2014-15	Peter Ip, MS Masters student, UMASS Amherst
2015-18	Emily Cooper, MS Masters student, UMASS Amherst
2016-	Etienne Holder, MS Doctoral student, UMASS Amherst
2017-	Catherine Askew Doctoral student, UMASS Amherst
2019-	Brian Monahan Masters student, UMASS Amherst
2019-	Johanna Ravenhurst Masters student, UMASS Amherst

#### **Thesis/Dissertation Committee Member at UMASS Amherst: MS and PhD students**

2011-14	Marcelle Dougan, doctoral student, Harvard School of Public Health Thesis: Body size throughout the life-course, diet quality, and endometrial cancer incidence
2013 - 14	Iris Corbasson, MS Student, UMASS Amherst Thesis: "The Association between Urinary Bisphenol-A, Phthalate Metabolites and Body Fat Composition in US Adults using NHANES"
2013-2016	Richard Viskochil, PhD Student, UMASS Amherst Dissertation: "Does exercise training reduce biomarkers of cancer recurrence by changing insulin supply and demand in postmenopausal breast cancer survivors?"
2014-15	Alexandra Purdue-Smithe, MS Student, UMASS Amherst Predicted 25-hydroxyvitamin D level and risk of multiple sclerosis in U.S. women
2016-2017	Alexandra Purdue-Smithe, PhD Student, UMASS Amherst Dissertation: Vitamin D, Calcium, and Dairy Consumption and Risk of Early Menopause
2015-17	Olga Ehrlich, PhD Student, UMASS Amherst Dissertation: "Hospice Caring Triad Social Processes Used to Manage Cancer Pain"
2016-2018	Mary Diaz, PhD Student, UMASS Amherst Dissertation: "Investigation of the roles of acculturation in cancer screening and phthalates in breast cancer risk and weight gain"
2019-20	Rebecca Costa, MS Student, UMASS Amherst

#### **Formal Faculty Mentoring at UMASS Amherst**

2011-18	Katherine Reeves, PhD/ Associate Professor, UMASS Amherst Epidemiology Faculty Mentee Environmental factors and women's cancers
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- 2012-14      Zhenhua Liu, PhD/ Assistant Professor, UMASS Amherst  
 Nutrition Faculty Mentee  
 Nutrition and colon cancer
- 2013-16      Richard Pilsner, PhD/Associate Professor, UMASS Amherst  
 Environmental Health Sciences Faculty Mentee  
 Environmental epigenetics
- 2019-        Raphael Arku, PhD/ Assistant Professor, UMASS Amherst  
 Environmental Health Sciences Faculty Mentee  
 Air pollution and health

## **Report of Invited Teaching and Presentations**

### Local Invited Presentations

- 1996        "Preventable Causes of Breast Cancer: Alcohol and Breast Cancer"  
 Public Health Grand Rounds, Harvard School of Public Health
- 1997        "Hormones and Breast Cancer"  
 Harvard Center for Cancer Prevention, Annual Cancer Update, Harvard School of Public Health
- 1999        "Insulin-like Growth Factors and Cancer"  
 Workshop on insulin-like growth factors, Harvard Center for Cancer Prevention, Harvard School of Public Health
- 2000        "Plasma Hormones and Risk of Breast Cancer"  
 Department of Pharmaceutical Science, Northeastern University
- 2000        "Reducing Cancer Risk in Women"  
 Women's Health Forum, General Public of Health Professionals, Brigham and Women's Hospital, Boston, MA;
- 2000        "Estrogens and Breast Cancer Risk"  
 Breast Oncology Conference, Dana Farber Cancer Institute
- 2001        "Insulin-like Growth Factors and Risk of Breast Cancer"  
 BWH Research Council Retreat, Brigham and Women's Hospital
- 2001        "25<sup>th</sup> Anniversary of the Nurses' Health Study"  
 Women's Health Forum, Brigham and Women's Hospital
- 2001        "Insulin Resistance, Glycemic Load, and Breast Cancer Risk"  
 Workshop on Diet and Breast Cancer, Dana Farber/Harvard Cancer Center
- 2002        "Endogenous Hormones and Breast Cancer Risk"  
 Epidemiology Department Seminar Series, Harvard School of Public Health
- 2002        "Behavioral and Lifestyle Changes: Altering the Risk of Developing Breast Cancer"  
 Annual Conference on Breast Cancer, Dana Farber Cancer Institute
- 2003        "The Good, the Bad and the Variable: Methodologic Issues in the Use of Biomarkers in Social Epidemiology".  
 Biomarker Working Group, Department of Health and Social Behavior, Harvard School of Public Health

- 2004 “Prolactin, Sex Steroids and Risk of Breast Cancer in Postmenopausal Women”  
Harvard Center for Cancer Prevention, Harvard School of Public Health
- 2004 “Recent findings from the Nurses’ Health Study”  
Harvard University Health Services, Harvard School of Public Health
- 2004 “Lifestyle Factors and Risk of Breast and Ovarian Cancers”  
Looking Back, Facing Forward: A Conference for Patients and Families, Dana Farber Cancer Institute
- 2005 “Endogenous hormones and breast cancer risk”  
Breast Cancer Rounds, Massachusetts General Hospital
- 2007 “Vitamin D and breast cancer”  
Vitamin D and cancer mini-symposium, Dana Farber Cancer Institute
- 2007 “The Nurses’ Health Study: Finding ways to improve women’s health”  
V, Brigham and Women’s Hospital
- 2008 “Biomarkers, risk assessment and breast cancer risk”  
MGH Breast Oncology Rounds, Massachusetts General Hospital
- 2008 “Endogenous hormones in premenopausal women: Can they be used in breast cancer risk prediction?”  
MGH Cancer Center Grand Rounds, Massachusetts General Hospital
- 2010 "Predicting breast cancer risk: Are endogenous hormone levels useful?"  
Community Health Department Seminar Series, Brown University, Providence, RI
- 2011 “Risk factors, risk prediction, and breast cancer prevention”  
University of Massachusetts, Amherst
- 2012 “Endogenous hormones, body mass, and risk of breast cancer”  
University of Massachusetts Trustees Meeting, Amherst, MA
- 2016 “Walter Willett: Impact as a Scientist and Mentor: Breast Cancer” 25<sup>th</sup> Anniversary of Dr. Willett being Chair of Nutrition, Harvard Chan School of Public Health
- 2017 “Frank Speizer’s Contribution to Science through the Lens of the Nurses’ Health Study”  
Channing Laboratory of Network Medicine, Brigham and Women’s Hospital
- 2019 “Progress and challenges in improving current breast cancer risk prediction model”  
Rays of Hope Advocacy Council, Springfield, MA

### Regional Invited Presentations

- 1991 Maine Lancaster Course in Ophthalmology  
Colby College (sponsored by Mass. Eye and Ear Infirmary), Waterville, ME
- 1995 “Hormone Replacement Therapy: Should I or shouldn't I?”  
Rhode Island Women's Health Collective, Warwick, RI
- 1997 "Preventable Causes of Breast Cancer"  
Leominster Hospital Medical Grand Rounds, Leominster, MA
- 1997 "Update on Woman's Health"  
Annual Women's and Newborn Health Conference, Cambridge, MA

- 1997 "Strengths of Prospective Cohort Studies"  
American College of Epidemiology, Boston, MA
- 2000 "The Nurse' Health Study: Update"  
Sigma Theta Tau Society, Curry College, Milton, MA
- 2002 "Biomarkers, Hormones and Breast Cancer" Keynote Address  
International Society for Biologic and Environmental Repositories, 3rd Annual Meeting, Danvers, MA
- 2006 "Epidemiology of ER negative breast cancers"  
5th Annual Frontiers in Cancer Prevention Conference, American Association of Cancer Research, Boston, MA
- 2006 "Contributions of the Nurses' Health Studies to disease prevention."  
Healthcare Business Association, Boston, MA
- 2007 "Endogenous hormones and risk of breast cancer in women."  
Boston Cancer Research Association, Boston, MA
- 2007 "Endogenous sex steroids and breast cancer"  
Annual Meeting of the American Epidemiological Society, Boston, MA
- 2007 "Biomarkers in epidemiology: Vitamin D as an example"  
Conference on Statistics and Epidemiologic Methods for the Study of Multiple Sclerosis, Boston, MA
- 2008 "Endogenous hormones and breast cancer risk in premenopausal and postmenopausal women"  
Research Seminar Series, Baystate Medical Center, Springfield, MA
- 2008 "Endogenous hormones and breast cancer risk"  
148th Cutter Lecture on Preventive Medicine, Harvard School of Public Health, Boston, MA
- 2008 "Nurses' Health Study: Advancing our understanding of women's health".  
Distinguished Scholar Lecture, College of Nursing and Health Sciences, UMASS, Boston, MA
- 2010 "Do plasma or urinary hormone levels in premenopausal women predict breast cancer risk?"  
Visiting Scholar, Epidemiology, Genetics, and Risk Program, National Cancer Society, Bethesda, MD
- 2010 "Endogenous Hormones and Risk of Breast Cancer: What do we know and what next?"  
R25 Training Grant Visiting Professor, University of Buffalo and Roswell Park Cancer Center, Buffalo, NY
- 2011 "Endogenous hormones and breast cancer risk in postmenopausal women: what do we know and what next?"  
Memorial Sloan-Kettering Prevention, Control and Population Research seminar, NYC
- 2013 "Breast Cancer Risk Factors: Recent Findings and Future Directions"  
Rutgers Cancer Institute of New Jersey, New Brunswick, NJ
- 2014 "Cancer Epidemiology + Molecular Pathology: 1+1=3"  
Juckett Distinguished Lecture Keynote speaker, Clinical and Translational Research Symposium, University of Vermont, Burlington, VT
- 2015 "Endogenous hormones and breast cancer: Where we are, where we are going"  
Cancer Epidemiology Program of the Norris Cotton Cancer Center and Geisel School of Medicine at Dartmouth, Lebanon NH



## National Invited Presentations

- 1995 "Diet and Cancer"/Cancer Prevention and Control Academic Course  
National Cancer Institute, Bethesda, MD
- 1995 Workshop on Hormones, Hormone Metabolism and Breast Cancer  
National Action Plan on Breast Cancer, New Orleans, LA
- 1996 "Nurses' Health Study: Implications for Women's Health and Clinical Practice"  
Northeastern Ohio College of Medicine, Rootstown, OH
- 1998 "Plasma Hormone Levels and Risk of Breast Cancer in Postmenopausal Women"  
Cancer Prevention and Control Colloquium, National Cancer Institute, Rockland, MD
- 1998 "Estrogens and Estrogen Metabolites; Technical Hurdles in Population Studies"  
Conference on Estrogens as Endogenous Carcinogens in the Breast and Prostate, National  
Cancer Institute, Chantilly, VA
- 1998 "Methodologic Issues in Biorepositories for Studies on Hormones"  
American Association of Cancer Research Annual Meeting, Methods Workshop, New Orleans,  
LA
- 1999 "Risk and Risk Reduction - Data from the Nurses' Health Study"  
Ovarian Cancer National Alliance Annual Meeting, Washington, DC
- 2000 "Prolactin and Risk of Breast Cancer"  
Gordon Research Conference on Prolactin, Ventura, CA
- 2000 "IGF-1, growth hormone and cancer"  
Growth Hormone Research Society (GRS) International Workshop II, Charlottesville, VA
- 2000 "Analysis of circulating hormone levels in relation to breast cancer risk"  
U.S. Army Breast Cancer Research Program Meeting, Atlanta, GA
- 2000 "Epidemiology of breast and ovarian cancer"  
American Cancer Society. Schilling Research Conference, Aptos, CA
- 2001 "Hormones in the Continuum: from Health to Disease"  
Mini-symposium, AACR Annual Meeting, New Orleans, LA
- 2001 "Epidemiology of Dietary Lutein/Zeaxanthin and Age-related Eye Diseases"  
Symposium "Can Lutein Protect Against Chronic Diseases". Experimental Biology Annual  
Meeting, Orlando, FL
- 2001 "What's New in the Nurses' Health Study?"  
Update in Cardiology, Pennsylvania Heart and Vascular Group, Philadelphia, PA
- 2001 "Women and Heart Disease"  
American Heart Association Cardiovascular Seminar for Nurses. Akron, OH
- 2001 "Prolactin, IGF and Breast Cancer Risk".  
Hormones, Immunity and Health Symposium. Endocrine Society 83rd Annual Meeting,  
Denver, CO
- 2002 "Hormone Replacement Therapy and the Breast: Consensus Conference", Pfizer  
Pharmaceuticals

NYC, NY

- 2002 “Recent Findings from the Nurses’ Health Studies”  
American Nurses Association Annual Meeting, Philadelphia, PA
- 2002 “Hormones and Risk of Breast Cancer”  
Annual Meeting of the NSABP Clinical Trial Investigators, Denver, CO
- 2002 “Issues in conducting parallel or pooled epidemiologic analyses of biomarkers”  
NIH, Cohort Consortium Meeting, Washington D.C.
- 2003 “IGFs and Breast Cancer”  
1st Gordon Conference on IGFs in Physiology and Disease Ventura, CA
- 2003 “Breast Cancer Epidemiology”  
Breast Cancer Course for Researchers. Susan Love Research Foundation, Santa Barbara, CA
- 2003 “Issues in the collection and use of biomarkers in prospective studies”  
Frontiers in Cancer Prevention Research Meeting, American Association for Cancer Research, Phoenix, Arizona
- 2004 “Population studies of IGF and cancer” Forum on “IGF-I: Roles in aging, cancer risk and cancer treatment.”  
95th Annual meeting of the AACR, Orlando, FL
- 2004 “Estrogens and breast cancer risk”  
Conference on Ultra Low Estrogen Levels & Disease Risk in Women, Philadelphia, PA
- 2004 “Vitamin D and breast cancer risk.”  
1st NCI Principal Investigators Meeting, Chicago, IL
- 2004 “Endogenous hormones and breast cancer risk”  
Minisymposium on Breast Cancer Risk Assessment 27th Annual San Antonio Breast Cancer Symposium, San Antonio, TX
- 2005 “Analytic methods supported by repositories: An Epidemiologic View”  
NCI-sponsored workshop on Best Practices and Recommendations for establishing and maintaining biorepositories that support cancer research, Washington, D.C.
- 2005 “Endogenous hormones and risk of breast cancer”  
Visiting Scholars seminar series, Epidemiology and Genetics Research Program, NCI, Rockville, MD
- 2005 “Epidemiology of breast cancer: New findings”  
3rd Annual Contemporary Issues in Breast Cancer Management, University of Michigan Medical School, Ann Arbor, MI
- 2005 “Endogenous sex steroid hormones and breast cancer risk”  
Prevention Grand Rounds, MD Anderson Cancer, Houston, TX
- 2005 “Breast cancer risk reduction through lifestyle intervention” Keynote speaker  
Lynne D. Abraham Symposium: Greater New York Komen Foundation, NYC, NY
- 2006 “Vitamin D and breast cancer risk”  
97th annual meeting of the AACR - New Concepts in Breast Cancer Research Session, Washington, D.C.
- 2006 “Use of biomarkers in epidemiology: Considerations in sample collection and processing”

- 2006 AACR Educational workshop on Biorepositories for Cancer Research, Washington, D.C.
- 2006 “Endogenous hormones and premenopausal breast cancer”  
Johns Hopkins 2nd annual Cancer Epidemiology and Prevention Trainee Symposium, Baltimore, MD
- 2006 “Endogenous sex steroids and risk of breast cancer”  
2nd North American Congress of Epidemiology, Seattle, WA
- 2007 “Hormones and breast cancer in women”  
Meet-the-expert session. 98th Annual Meeting of the AACR, Los Angeles, CA
- 2007 “Can we use serum hormone levels to stratify for risk of breast and prostate cancer?”  
43d Annual American Society of Clinical Oncology meeting. Chicago, IL
- 2007 “Do sex steroids add to risk prediction models?”  
3rd International Workshop on Breast Density & Breast Cancer Risk Assessment, San Francisco, CA
- 2007 “Endogenous hormones and breast cancer risk”  
Cancer Risk and Prevention Seminar Series, Vanderbilt University, Nashville, TN
- 2007 “Considerations in blood collection for large epidemiologic studies”  
Symposium on Recent Innovations in Biologic Sample Collection in Large Scale Studies. 40th Annual meeting of the Society for Epidemiologic Research, Boston, MA
- 2007 “Endogenous hormones and breast cancer risk”  
Symposium on Intermediate Markers in Breast Cancer: Surrogates or subterfuge? 40th Annual meeting of the Society for Epidemiologic Research, Boston, MA
- 2007 “Hormones and breast cancer in women”  
Advances in Breast Cancer Research Conference, AACR, San Diego, CA
- 2007 “Estrogen and breast cancer risk”  
9th Annual Lynn Sage Breast Cancer Symposium, Chicago IL
- 2007 “Considerations in blood collection for large epidemiologic studies”  
University of North Carolina, School of Public Health, Chapel Hill, NC
- 2008 “Hormones and breast cancer in women”  
Department of Medicine Seminar, Virginia Commonwealth University, Richmond VA
- 2008 “Insulin-like growth factors, insulin and risk of breast and gynecologic cancers”  
AACR-TREC-NCI Conference on Energy Balance in Cancer: Mediators and Mechanisms, Lansdowne, VA
- 2008 “The Nurses’ Health Study: History, legacy and future promise”  
10th Annual Distinguished Lectureship, University of Akron College of Nursing, Akron, OH
- 2008 “The impact of estradiol and testosterone assay variability on epidemiologic studies in cancer research”  
CDC Workshop on Improving Steroid Hormones Measurements for Patient Care and Research Translation, Atlanta, GA
- 2008 “Data collection in an aging cohort”  
Annual Meeting of the NCI sponsored Cohort Consortium, Bethesda, MD
- 2009 “How Do We Profile for Breast Cancer?”

- Hormones and Breast Cancer Symposium, 91st Annual Endocrine Society Meeting, Washington, DC
- 2009 “Integrating biomarkers into epidemiologic research”  
Student Workshop, 42<sup>nd</sup> Annual Meeting of the Society of Epidemiologic Research, Anaheim, CA
- 2009 “Biomarkers in the cohort consortium: why, what, when”  
Annual meeting of the NCI-sponsored cohort consortium, Bethesda, MD
- 2011 “Nutritional biomarkers in epidemiology: Plasma carotenoids and breast cancer”  
Nutrition in Medicine Course, Rush Medical Center, Chicago, IL
- 2011 “Adiposity, metabolism and risk of breast cancer”  
San Antonio Breast Cancer Symposium, San Antonio, Texas
- 2012 "Diet, plasma nutrients, and breast cancer risk"  
Pennsylvania State Cancer Institute Symposium, Pennsylvania State University, Hershey, PA
- 2013 “Expanding a cohort study: Adding family members and body parts”  
Symposium: “Old Studies, new questions: maximizing the utility of existing data and minimizing the biases that can result”  
46<sup>th</sup> Annual meeting of Society of Epidemiological Research, Boston, MA
- 2014 “Endogenous estrogens in breast cancer risk and individual risk prediction”  
Laura Evans Memorial Breast Cancer Symposium, Sun Valley, ID
- 2014 “Endogenous estrogens and risk of female cancers”  
NCI/Endocrine Society Sponsored Workshop on measuring estrogen exposure and metabolism, Bethesda MD
- 2014 “Leveraging cohort studies for biomarker studies of early detection”  
AACR Annual Meeting, San Diego, CA
- 2016 Discussant: “Cancer Prevention, Hereditary Genetics, and Epidemiology Poster Discussion”  
Annual meeting of the American Society of Clinical Oncology, Chicago IL
- 2018 “Adiposity throughout the lifecourse and risk of breast cancer”  
AACR Special Conference on Obesity and Cancer: Mechanisms Underlying Etiology, and Outcomes, San Diego, CA
- 2018 “New Data on Hormones and Risk of Breast Cancer” San Antonio Breast Cancer Symposium, San Antonio, TX
- 2019 “Circulating Estrogens and Risk of Breast Cancer” pre-meeting workshop, North American Menopause Society Annual Meeting, Chicago, IL
- 2021  
(March) 2021 Millikan Seminar speaker, University of North Carolina, Chapel Hill

#### International Invited Presentations

- 1996 “Postmenopausal Hormone Use in Relation to Breast Cancer and Cardiovascular Disease”  
German, Austrian and Swiss Menopause Societies, Berlin, Germany

- 1998 "Postmenopausal Hormones and Risk of Breast Cancer"  
Austrian Society of Gynecologic Oncology Annual Meeting, Salzburg, Austria
- 2000 "Insulin-like growth factor I and cancer risk: Interpreting the epidemiology"  
19th International Symposium on Endocrinology and Development. Sorrento, Italy
- 2002 "Estrogens and Breast Cancer"  
6th International Aromatase Conference, Kyoto, Japan
- 2002 "Early Life Exposures and Cancer Risk"  
1st International Symposium on Cancer Prevention, Montreal, Canada
- 2003 "Hormones and breast cancer risk"  
Symposium on Postmenopausal Hormones Mexico Hospital, San Jose, Costa Rica
- 2003 "Recent Epidemiologic Findings for Breast and Ovarian Cancer"  
AOCCS Meeting, Brisbane, Australia
- 2004 "Prolactin, sex steroids and risk of breast cancer"  
University of Umea, Umea, Sweden
- 2005 "Endogenous hormones and breast cancer risk"  
International Agency for Research on Cancer (IARC), Lyon, France
- 2006 "Estrogens and other hormones: Relationship with breast cancer"  
8th International Aromatase Conference, Baltimore, MD
- 2006 "Sex steroids, prolactin and breast cancer risk in premenopausal women"  
Italian National Cancer Institute, Rome, Italy
- 2006 "Endogenous hormones and breast cancer risk"  
5th International Symposium on Hormonal Carcinogenesis, Montpellier, France
- 2006 "Endogenous estrogens and breast cancer"  
Controversies in breast cancer meeting: Aromatase inhibitors, Edinburgh, U.K.
- 2006 "Endogenous and exogenous hormones and breast cancer risk"  
6th Amazon Project Scientific Conference, Palermo, Italy
- 2007 "Quality assurance issues in biologic sample collection: Lessons from the Nurses' Health Study"  
Korean Biobank Symposium, Kangwon National University, South Korea
- 2007 "Lifestyle factors and ovarian cancer"  
Helen Harris Memorial Trust (HHMT) 11th Biennial International Forum on Ovarian Cancer, Lake Como, Italy
- 2007 "Endogenous hormones and breast cancer in women"  
Ontario Cancer Institute and Princess Margaret Hospital, Toronto, Canada
- 2008 "Perspectives on breast cancer prevention: the role of hormones"  
13th International Cancer Symposium, Aichi Cancer Center, Nagoya, Japan
- 2008 "Preventing ovarian cancer – What we know and what we don't know."  
Keynote address; 4th Canadian Conference on Ovarian Cancer Research, Montreal, Canada

- 2009 “The emergence of National Cohorts: Tomorrow's consortia? Focus on Established Cohorts (>5 years old) and their Challenges.” Panel member  
Cohort and Consortia: From Biotechnology to Populations Conference, Banff, Canada
- 2009 “Ensuring the longevity of Cohort Studies: Experience from the Nurses' Health Study”  
Cohorts and Consortia: From Biotechnology to Populations Conference, Banff, Canada
- 2010 “Endogenous hormones and breast cancer risk: current status, challenges, and opportunities.”  
International Breast Cancer and Nutrition Symposium, Purdue University, West Lafayette, IN
- 2019 “Institutional challenges and facilitators to equity: Achieving success as a woman scientist.”  
International Agency for Research on Cancer (IARC), Lyons, France
- 2019 “Breast cancer risk models that combine a polygenic risk score, mammographic density and endogenous hormones.”  
9<sup>th</sup> International Breast Density & Cancer Risk Assessment Workshop, Honolulu, Hawaii
- 2020 “Biomarkers in population-based breast cancer research: Insights into etiology and risk prediction” – the AACR Distinguished Lectureship in Breast Cancer Research invited talk.  
43<sup>rd</sup> Annual San Antonio Breast Cancer Symposium

## **Report of Education of Patients and Service to the Community**

### **Educational Material for Patients and the Lay Community**

1. PI, contract with Susan G Komen Foundation (2006-2011). This contract funded the updating and maintenance of content in the «Understanding Breast Cancer» section of the Komen website.

### **Books, monographs, articles and presentations in other media**

1. **Hankinson SE**, Colditz GA, Manson JE, and Speizer FE (eds). Healthy Women, Healthy Lives. A Guide to Preventing Disease from the Landmark Nurses' Health Study. New York: Simon and Schuster Source, 2001.

## **Report of Scholarship**

### **Peer-Reviewed Publications in print or other media**

#### **Research Investigations**

1. Vesley D, **Hankinson SE**, Lauer JL. Microbial survival and dissemination associated with an air-fluidized therapy unit. *Am J Infect Control* 1986;14(1):35-40.
2. **Hankinson SE**, London SJ, Chute CG, Barbieri RL, Jones L, Kaplan LA, Sacks FM, Stampfer MJ. Effect of transport conditions on the stability of biochemical markers in blood. *Clin Chem* 1989;35(12):2313-6.
3. Parker DL, Bender AP, **Hankinson S**, Aeppli D. Public health implications of the variability in the interpretation of 'B' readings for pleural changes. *J Occup Med* 1989;31(9):775-80.
4. Maclure M, **Hankinson S**. Analysis of selection bias in a case-control study of renal adenocarcinoma. *Epidemiology* 1990;1(6):441-7.
5. **Hankinson SE**, Stampfer MJ, Seddon JM, Colditz GA, Rosner B, Speizer FE, Willett WC. Nutrient intake and cataract extraction in women: A prospective study. *BMJ* 1992;305(6849):335-9. PMID: PMC1882980.

6. **Hankinson SE**, Willett WC, Colditz GA, Seddon JM, Rosner B, Speizer FE, Stampfer MJ. A prospective study of cigarette smoking and risk of cataract surgery in women. *JAMA* 1992;268(8):994-8.
7. **Hankinson SE**, Colditz GA, Hunter DJ, Spencer TL, Rosner B, Stampfer MJ. A quantitative assessment of oral contraceptive use and risk of ovarian cancer. *Obstet Gynecol* 1992;80(4):708-14.
8. **Hankinson SE**, Seddon JM, Colditz GA, Stampfer MJ, Rosner B, Speizer FE, Willett WC. A prospective study of aspirin use and cataract extraction in women. *Arch Ophthalmol* 1993;111(4):503-8.
9. **Hankinson SE**, Hunter DJ, Colditz GA, Willett WC, Stampfer MJ, Rosner B, Hennekens CH, Speizer FE. Tubal ligation, hysterectomy, and risk of ovarian cancer. A prospective study. *JAMA* 1993;270(23):2813-8.
10. **Hankinson SE**, Manson JE, London SJ, Willett WC, Speizer FE. Laboratory reproducibility of endogenous hormone levels in postmenopausal women. *Cancer Epidemiol Biomarkers Prev* 1994;3(1):51-6.
11. Kawachi I, Colditz GA, **Hankinson SE**. Long-term benefits and risks of alternative methods of fertility control in the United States. *Contraception* 1994;50(1):1-16.
12. Fuchs CS, Stampfer MJ, Colditz GA, Giovannucci EL, Manson JE, Kawachi I, Hunter DJ, **Hankinson SE**, Hennekens CH, Rosner B. Alcohol consumption and mortality among women. *N Engl J Med* 1995;332(19):1245-50.
13. **Hankinson SE**, Willett WC, Manson JE, Hunter DJ, Colditz GA, Stampfer MJ, Longcope C, Speizer FE. Alcohol, height, and adiposity in relation to estrogen and prolactin levels in postmenopausal women. *J Natl Cancer Inst* 1995;87(17):1297-302.
14. Manson JE, Willett WC, Stampfer MJ, Colditz GA, Hunter DJ, **Hankinson SE**, Hennekens CH, Speizer FE. Body weight and mortality among women. *N Engl J Med* 1995;333(11):677-85.
15. Sepkovic DW, Bradlow HL, Ho G, **Hankinson SE**, Gong L, Osborne MP, Fishman J. Estrogen metabolite ratios and risk assessment of hormone-related cancers. assay validation and prediction of cervical cancer risk. *Ann N Y Acad Sci* 1995;768:312-6.
16. Lipworth L, Katsouyanni K, Stuver S, Samoli E, **Hankinson SE**, Trichopoulos D. Oral contraceptives, menopausal estrogens, and the risk of breast cancer: A case-control study in greece. *Int J Cancer* 1995;62(5):548-51.
17. **Hankinson SE**, Colditz GA, Hunter DJ, Willett WC, Stampfer MJ, Rosner B, Hennekens CH, Speizer FE. A prospective study of reproductive factors and risk of epithelial ovarian cancer. *Cancer* 1995;76(2):284-90.
18. **Hankinson SE**, Manson JE, Spiegelman D, Willett WC, Longcope C, Speizer FE. Reproducibility of plasma hormone levels in postmenopausal women over a 2-3-year period. *Cancer Epidemiol Biomarkers Prev* 1995;4(6):649-54.
19. **Hankinson SE**, Colditz GA, Hunter DJ, Manson JE, Willett WC, Stampfer MJ, Longcope C, Speizer FE. Reproductive factors and family history of breast cancer in relation to plasma estrogen and prolactin levels in postmenopausal women in the nurses' health study (united states). *Cancer Causes Control* 1995;6(3):217-24.
20. Colditz GA, **Hankinson SE**, Hunter DJ, Willett WC, Manson JE, Stampfer MJ, Hennekens C, Rosner B, Speizer FE. The use of estrogens and progestins and the risk of breast cancer in postmenopausal women. *N Engl J Med* 1995;332(24):1589-93.

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22. Michels KB, Willett WC, Rosner BA, Manson JE, Hunter DJ, Colditz GA, **Hankinson SE**, Speizer FE. Prospective assessment of breastfeeding and breast cancer incidence among 89,887 women. *Lancet* 1996;347(8999):431-6.
23. Seddon JM, Willett WC, Speizer FE, **Hankinson SE**. A prospective study of cigarette smoking and age-related macular degeneration in women. *JAMA* 1996;276(14):1141-6.
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30. Colditz GA, Manson JE, **Hankinson SE**. The nurses' health study: 20-year contribution to the understanding of health among women. *J Womens Health* 1997;6(1):49-62.
31. Hunter DJ, **Hankinson SE**, Laden F, Colditz GA, Manson JE, Willett WC, Speizer FE, Wolff MS. Plasma organochlorine levels and the risk of breast cancer. *N Engl J Med* 1997;337(18):1253-8.
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## **Research Narrative Report**

My research addresses the role of endogenous hormones in the etiology of breast cancer in women, including determining the lifestyle and genetic factors that influence hormone levels. This focus reflects a broad interest in the application of biomarkers in epidemiologic research. I also spend considerable time addressing lifestyle factors and breast cancer risk, to both better understanding the biologic mechanisms of observed associations and to provide the best possible recommendations to women.

My research has been conducted primarily within the Nurses' Health Study (NHS) and Nurses' Health Study II (NHSII) cohorts. I was the Principal Investigator of the NHS from 2006-2011 and remain a senior investigator with the study; further, I am a senior investigator with the NHSII. I have conducted a wide range of projects to evaluate the role of endogenous hormones and nutritional factors in breast cancer etiology in postmenopausal women. This work helped establish circulating endogenous estrogens, androgens and prolactin as independent predictors of risk in postmenopausal women and open several new research avenues (e.g., IGFs and vitamin D) in breast cancer etiology. Additionally, I have addressed the role of lifestyle factors on both breast cancer risk and survival. I provided the first comprehensive assessment of how much circulating hormones can add significantly to breast cancer risk prediction models in postmenopausal women, as well as the cumulative impact of adding multiple biologic markers (hormones, polygenic risk score, mammographic breast density) to current models. Extensions and validation of this work is a focus of a current NIH R01. Overall, this work has potential to help identify women at high risk of breast cancer – i.e., those who might most benefit from chemoprevention or increased screening, as well as women at the lowest breast cancer risk who may need less frequent screening.

I also continue to lead efforts to uncover plasma and urinary markers that predict risk of breast cancer in premenopausal women – both to identify new biologic pathways and to improve individual breast cancer risk prediction. To lay the foundations for this work, I first developed and validated methods for collecting biologic samples, through the mail, from premenopausal women that were timed within the menstrual cycle. Samples were collected from 29,611 largely premenopausal members of the NHSII cohort – resulting in what is to my knowledge the first, and to date only, large archive with menstrually timed blood and urine samples. To date, I have provided evidence of a role for circulating estrogens, androgens, and anti-mullerian hormone in predicting breast cancer risk in these younger women. This work will continue to contribute importantly to our knowledge of biochemical predictors of disease risk in women using these two unique biologic sample archives.

Increasingly I am evaluating the molecular characteristics of breast tumors in my research, using recently available genomic technologies in formalin fixed paraffin embedded breast tissue (tumor and normal), to gain new insight into biologic mechanisms underlying breast cancer risk factors, including postmenopausal obesity, early life somatotype and alcohol intake. Further, I am continuing to incorporate novel biomarkers into my work. As two recent examples, I am currently funded by two NIH R01's to evaluate a novel estrogen bioassay and breast cancer risk, as well as to develop a plasma metabolomic signature of chronic stress.

As secondary area of research, I have focused on the etiology of ovarian cancer, a cancer associated with a relatively poor prognosis and that has received more limited research attention. I have led several and participated in many projects evaluating lifestyle factors and both biochemical and genetic predictors of risk. These efforts will further our understanding of the etiology of ovarian cancer, and will help define ways to prevent its occurrence.