

Curriculum Vitae

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Name: Susan E. Hankinson

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Education

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|------|--------|----------------------|---------------------------------|
| 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 |

Predocctoral and Postdoctoral Training

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

Faculty Academic Appointments

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|---------|---------------------|--------------|---|
| 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 |
| 2011- | Adjunct Professor | Epidemiology | Harvard T.H. Chan School of Public Health |

Appointments at Hospitals/Affiliated Institutions

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

Other Professional Positions

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|---------|-------------|-----------------|-----------------------------------|
| 1979-80 | Staff Nurse | General surgery | Massachusetts General Hospital |
| 1980-85 | Staff Nurse | Surgical ICU | University of Minnesota Hospitals |

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|---------|-------------------------------|--|--|
| 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 | TRA Research Manager | Channing Laboratory | Brigham and Women's Hospital |

Major Administrative Leadership Positions

Local

| | | | |
|-------------------------|---------------|--|--|
| 2006-11 | Leader | Cancer Epidemiology Program | Dana-Farber/Harvard Cancer Center |
| 2015- | Chair | Department of Biostatistics and Epidemiology | School of Public Health & Health Sciences University of Massachusetts Amherst |
| 2016 (fall semester) | Interim Chair | Department of Environmental Health Science | School of Public Health & Health Sciences University of Massachusetts Amherst |

Committee Service

Local and Regional

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|-----------|------------------------------|--|---|
| 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 |

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|------------------|---------------------|--|---|
| 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 | University of Massachusetts/Amherst |
| 2011- | Member | Public Health Undergraduate Advisory Committee | University of Massachusetts/Amherst |
| 2011-2015 | Coordinator | Epidemiology Seminar Series | University of Massachusetts /Amherst |
| 2011-14; 2016 | Coordinator | Doctoral Comprehensive Exam in Epidemiology | University of Massachusetts/Amherst |
| 2012 | Chair | Internal Search Committee for Chair of Public Health | University of Massachusetts/Amherst |
| 2012 | Member | Environmental Health Faculty Search Committee (2 positions) | University of Massachusetts/Amherst |
| 2012 | Chair | School of Public Health and Health Sciences, Dean Review Committee | University of Massachusetts/Amherst |
| 2012-15 | Presiding Officer | School of Public Health and Health Sciences, Faculty Assemblies | University of Massachusetts/Amherst |
| 2012- | 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/Harvard Medical School/BWH |
| 2013-15 | Member | Epidemiology Program Curriculum Committee | University of Massachusetts/Amherst |
| 2013-14 | Member | Personnel Committee, Biostatistics and Epidemiology Division, SPHHS | University of Massachusetts/Amherst |
| 2016- | Member | SPHHS Dean's Advisory Board | University of Massachusetts/Amherst |
| 2016 | Chair | Environmental Health Sciences Department, Chair Search Committee | University of Massachusetts/Amherst |

National and International

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|-----------|--------------------------|--|---|
| 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 th Annual Frontiers in Cancer Prevention Meeting | AACR |
| 2006 | Co-chair | “New Concepts in Breast Cancer Research” Symposium; 97 th 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 nd North American Congress of | Seattle, WA |

Epidemiology

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|---------|---------------------------------|---|---|
| 2007-17 | 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 th 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 rd 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 rd annual meeting | AACR |
| 2013 | Co-chair | Symposium: “Cancer in Women”, 46 th 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 | Member | Annual Meeting Education Committee | AACR Annual Meeting 2015 |
| 2015 | Member | Annual Meeting Education Committee | AACR Annual Meeting 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 |
| 2015-16 | 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 |

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| 2017-18 | Past Chair | Molecular Epidemiology Group (MEG) | AACR |
| 2017 | Member | Selection Committee, AACR-ACS Cancer Epidemiology and Prevention Annual Award | AACR |

Professional Societies

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|-------|---------------------|--|
| 1985 | Member | Delta Omega Honorary Public Health Society |
| 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

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|---------|--------|--|--|
| 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 | NCI |
| 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 |

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| 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 Cancer Institute |

Editorial Activities

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| 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 |

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| 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

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|---------------|--|--|
| 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 |

Report of Funded Projects

Funding Information

Past

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| 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 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; Project 3 (Ovarian Cancer) |
| 2006-11 | PI | Dietary and hormonal determinants of cancer in women NIH P01 CA87969 |
| 2005-16 | Co-Inv | Dietary and hormonal determinants of cancer in women NIH P01 CA87969 (Stampfer, PI) |

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| 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 |
| 2011-15 | Co-Inv | 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 (\$3.3 million Total Direct Costs (TDC)) |
| 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 (\$1.6 million TDC) |
| 2013-16 | Co-Inv | Biomarkers and breast cancer risk prediction in young women NIH R01 CA178949 (Zeleniuch, PI) |
| 2014-16 | Co-Inv | Depression, Antidepressant use, and Breast Cancer Risk. NIH RO3 CA186228 (Reeves, PI) |

Current

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| 2015-18 | Co-Inv | Phthalate Metabolites and breast cancer risk in the Women's Health Initiative NIH R01 ES02473 (Reeves, PI) |
| 2014-19 | Co-Inv | Predictors of Early Menopause NIH R01 HD078517 (Bertone-Johnson, PI) |
| 2017-22 | PI | Endogenous hormones and postmenopausal breast cancer: Etiologic insights and improving risk prediction NIH R01 CA207369 (\$4.3 million 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 TC) |

Report of Local Teaching and Training

Teaching of Students in Courses

(classes are graduate level unless otherwise noted)

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| 1992 | Introductory Epidemiology (1 lecture) | Northeastern University |
| 1992-98 | Epidemiologic Methods (1 lecture) | Boston University School of Public Health |

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| 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) | University of Massachusetts, Amherst, SPHHS |
| 2012-14, 2017 | Chronic Disease Epidemiology (developed and led; undergraduate class) | University of Massachusetts, Amherst, SPHHS |
| 2015-2017 | Epidemiology in Public Health (1 guest lecture) | University of Massachusetts, Amherst, SPHHS |

Formal Teaching of Residents, Clinical Fellows and Research Fellows (Primary Mentor to Post-doctoral Fellows)

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| 1996-97 | Lisa Chasan-Taber, ScD/ Professor, 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
- 2010-13 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
- 2011-14 Elizabeth Poole, PhD / Associate Director - Biostatistics, MS Global Medical Affairs Sanofi US (co-mentor)
Postdoctoral fellow, Harvard School of Public Health
- 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 Massachusetts Amherst
Postdoctoral Fellow, University of Massachusetts Amherst
- 2016- Serena Houghton, PhD
Current Postdoctoral Fellow, University of Massachusetts Amherst

Formally Supervised Trainees (Masters and Doctoral Students as Primary Academic Advisor)

- 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, 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, BS
 Masters student, UMASS Amherst

2012-15 Laura Yochum, MS
 Doctoral student, UMASS Amherst

2014- Anahita Hadioonzadeh, MS
 Doctoral Student, UMASS Amherst

2014-15 Peter Ip, BS
 Masters student, UMASS Amherst

2015- Emily Cooper, BS
 Masters student, UMASS Amherst

2016- Etienne Holder, MS
 Doctoral student, UMASS Amherst

Thesis/Dissertation Committee Member: 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- 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- 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"

Formal Faculty Mentoring at University of Massachusetts

- 2011- Katherine Reeves, PhD/ Associate Professor, University of Massachusetts
Epidemiology Faculty Mentee
Epidemiology of breast cancer
- 2012-14 Zhenhua Liu, PhD/ Assistant Professor, University of Massachusetts
Nutrition Faculty Mentee
Nutrition and colon cancer
- 2013-16 Richard Pilsner, PhD/Assistant Professor, University of Massachusetts
Environmental Health Sciences Mentee
Environmental epigenetics

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 “25th 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

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, NY
- 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, 42nd 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”

- 46th 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
- 2015 Session Chair: “Diet, Energy Balance and Women’s Health”
48th Annual meeting of the Society for Epidemiologic Research, Denver CO
- 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”
(scheduled) AACR Special Conference on Obesity and Cancer: Mechanisms Underlying Etiology

International

- 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

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.
21. Michels KB, Trichopoulos D, Robins JM, Rosner BA, Manson JE, Hunter DJ, Colditz GA, **Hankinson SE**, Speizer FE, Willett WC. Birthweight as a risk factor for breast cancer. *Lancet* 1996;348(9041):1542-6.
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.
24. Rich-Edwards JW, Stampfer MJ, Manson JE, Rosner B, **Hankinson SE**, Colditz GA, Willett WC, Hennekens CH. Birth weight and risk of cardiovascular disease in a cohort of women followed up since 1976. *BMJ* 1997;315(7105):396-400. PMID: PMC2127275.
25. Huang Z, **Hankinson SE**, Colditz GA, Stampfer MJ, Hunter DJ, Manson JE, Hennekens CH, Rosner B, Speizer FE, Willett WC. Dual effects of weight and weight gain on breast cancer risk. *JAMA* 1997;278(17):1407-11.

26. **Hankinson SE** , Stampfer MJ. Estrogens and breast cancer. *Salud Publica Mex* 1997;39(4):370-8.
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28. Kelsey KT, **Hankinson SE**, Colditz GA, Springer K, Garcia-Closas M, Spiegelman D, Manson JE, Garland M, Stampfer MJ, Willett WC, Speizer FE, Hunter DJ. Glutathione S-transferase class mu deletion polymorphism and breast cancer: Results from prevalent versus incident cases. *Cancer Epidemiol Biomarkers Prev* 1997;6(7):511-5.
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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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36. Ishibe N, **Hankinson SE**, Colditz GA, Spiegelman D, Willett WC, Speizer FE, Kelsey KT, Hunter DJ. Cigarette smoking, cytochrome P450 1A1 polymorphisms, and breast cancer risk in the nurses' health study. *Cancer Res* 1998;58(4):667-71.
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39. **Hankinson SE**, Willett WC, Manson JE, Colditz GA, Hunter DJ, Spiegelman D, Barbieri RL, Speizer FE. Plasma sex steroid hormone levels and risk of breast cancer in postmenopausal women. *J Natl Cancer Inst* 1998;90(17):1292-9.
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52. Rockhill B, Willett WC, Hunter DJ, Manson JE, **Hankinson SE**, Colditz GA. A prospective study of recreational physical activity and breast cancer risk. *Arch Intern Med* 1999;159(19):2290-6.

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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, but also 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) that may lead to new opportunities for breast cancer prevention. 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 risk prediction models in postmenopausal women, and I am now evaluating the addition of multiple biologic markers (hormones, risk alleles, breast density) to current models. 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 discover 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, prolactin and anti-mullerian hormone in predicting breast cancer risk in these younger women. Going forward, this research program 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 FFPE breast tissue (tumor and normal), to gain new insight into biologic mechanisms underlying breast cancer risk factors.. Further, I am continuing to incorporate novel biomarkers into my research (e.g., metabolomics assays).

As a secondary but still interesting and important area of research, I have focused on the etiology of ovarian and endometrial cancers, two cancers in women that have received more limited research attention. I have led several projects evaluating lifestyle factors and both biochemical and genetic predictors of risk. These efforts will further our understanding of the etiology of these cancers, and will help define ways to prevent their occurrence.