

# Curriculum Vitae

Date Prepared: March 31, 2022  
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## Education

1999	B.S.	Biochemistry and Molecular Biology	Nankai University, China
2004	Ph.D.	Biological Sciences in Public Health <i>(Thesis: genetic variation, DNA repair, and skin cancer. Advisor: David J. Hunter, Former Dean for Academic Affairs and Acting Dean at Harvard T.H. Chan School of Public Health)</i>	Graduate School of Arts and Sciences, Harvard University, Boston, MA

## Faculty Academic Appointments

2004-2007	Instructor in Medicine	Department of Medicine	Harvard Medical School, Boston, MA
2007-2013	Assistant Professor of Medicine	Department of Medicine	Harvard Medical School, Boston, MA
2009-2011	Assistant Professor of Epidemiology	Department of Epidemiology	Harvard T.H. Chan School of Public Health, Boston, MA
2010-2011	Assistant Professor of Dermatology	Department of Dermatology	Harvard Medical School, Boston, MA
2011-2013	Associate Professor of Dermatology	Department of Dermatology	Harvard Medical School, Boston, MA
2011-2013	Associate Professor of Epidemiology	Department of Epidemiology	Harvard T.H. Chan School of Public Health, Boston, MA
2013	Associate Professor of Medicine	Department of Medicine	Harvard Medical School, Boston, MA
2013-2015	Visiting Professor of Dermatology	Department of Dermatology	Harvard Medical School, Boston, MA
2013-2019	Adjunct Professor of Epidemiology	Department of Epidemiology	Harvard T.H. Chan School of Public Health, Boston, MA
2013-2019	Visiting Professor of Medicine	Department of Medicine	Harvard Medical School, Boston, MA
2013-	Professor of Epidemiology	Department of Epidemiology	Richard M. Fairbanks School of Public Health, Indiana University
2013-	Founding Department Chair	Department of Epidemiology	Richard M. Fairbanks School of Public Health, Indiana University
2013-	Rachel Cecile Efroymsen Professor of Cancer Research		Melvin and Bren Simon Cancer Center, Indiana University
2014-	Adjunct Professor of Dermatology	Department of Dermatology	Indiana University School of Medicine

### Appointments at Hospitals/Affiliated Institutions

2004-2013	Associate Epidemiologist	Department of Medicine	Brigham and Women's Hospital, Boston, MA
2004-2013	Member	Harvard Cancer Center	Dana Farber Cancer Institute, Boston, MA
2009-2013	Associate Epidemiologist	Department of Dermatology	Brigham and Women's Hospital, Boston, MA
2009-2013	Founding Associate Director, Clinical Research Program	Department of Dermatology	Brigham and Women's Hospital, Boston, MA
2010-2013	Founding Co-Director, Research Training Program	Department of Dermatology	Brigham and Women's Hospital, Boston, MA
2013-2018	Co-Leader	Cancer Prevention and Control Program	Melvin and Bren Simon Cancer Center, Indiana University
2018-	Affiliated Research Scientist		Regenstrief Institute, Indiana University
2019-	Director	Epidemiology Consultation Core	Melvin and Bren Simon Cancer Center, Indiana University
2021-	Affiliated Faculty Member		Indiana University Center for Global Health
2021-	Affiliated Faculty Member	Department of Global Health	Richard M. Fairbanks School of Public Health, Indiana University

### Other Professional Positions

#### *Past*

1999-2000	Research Assistant	Colon Cancer Index Study, Harvard Center for Cancer Prevention, Harvard T.H. Chan School of Public Health, Boston, MA
2002-2003	Project Coordinator	Skin Cancer Case-Control Study in the Nurses' Health Study, Channing Laboratory, Brigham and Women's Hospital, Boston, MA
2004-2013	Member	Program in Molecular and Genetic Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA
2008-2013	Member	Harvard Skin Disease Research Center, Boston, MA
2008-2013	Member	Center for Environmental Health Sciences, Massachusetts Institute of Technology, Boston, MA

### Committee Service

#### *Local*

2005-2007	Female Cancer Working Group, Member	Channing Laboratory, Brigham and Women's Hospital, Boston, MA
2009-2013	Executive Committee, Member	Skin SPORE, Harvard Medical School, Boston, MA
2009-2013	Advisory Board of the Tissue Repository, Member	Channing Laboratory, Brigham and Women's Hospital, Boston, MA
2009-2013	Admissions Committee, Member	Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA

2010-2013	Doctoral Student Written Exam Committee, Member	Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA
2011-2013	Center for Human Genetics Working Group, Member <i>The group comprises the leadership for the Center for Human Genetics at the Biomedical Research Institute at Brigham and Women's Hospital. Members represent multiple departments and, with direction from the center chairs, work to identify and advance collaborative research initiatives.</i>	Brigham and Women's Hospital, Boston, MA
2012-2013	Clinical Investigation Committee for the Center for Clinical Investigation, Member <i>This Center is the major infrastructure and educational resource for clinical research at the Brigham &amp; Women's Hospital. It also functions as the docking station for all Harvard Catalyst – The Harvard Clinical and Translational Science Center – activities at Brigham &amp; Women's Hospital. This committee plays a major advisory role in how clinical research functions at Brigham &amp; Women's Hospital and in the Harvard Catalyst Program.</i>	Brigham and Women's Hospital, Boston, MA
2012-2013	Chinese Students and Scholars Association, Advisory Board Member	Harvard T.H. Chan School of Public Health, Boston, MA
2013	Scholarship Oversight Committee, Member	Department of Dermatology, Brigham and Women's Hospital, Boston, MA
2013-2014	Admissions Committee, Member	Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University
2013-	School Leadership Committee, Member	Richard M. Fairbanks School of Public Health, Indiana University
2014-2016	Member (representing Fairbanks School of Public Health)	Council of Associate Deans for Research, Indiana University-Purdue University Indianapolis (IUPUI)
2014-2015	Search Committee, Chair	Search committee for Associate Dean for Research and Faculty Affairs, Fairbanks School of Public Health
2014-2015	Search Committee, Member	Search committee for Associate Dean for Global Health, Fairbanks School of Public Health
2014-2017	Internal Advisory Committee, Member	Susan G. Komen Breast Tissue Bank, Indiana University Simon Cancer Center (IUSCC)
2014-2016	Committee, Member	Design and Biostatistics Program of the Indiana Clinical and Translational Sciences Institute (CTSI)
2014-	Committee, Member	Indiana Biobank Executive Committee

2014-	Committee, Member	IUSCC Cancer Prevention and Control pilot grant review committee
2015-2016	Internal Advisory Committee, Member	Biostatistics and Data Management Core, IUSCC
2015-	Internal Advisory Committee, Member	The Recruitment Core, IUSCC
2015-2016	Co-chair	Health Disparities Task Force, IUSCC
2015-2016	Search Committee, Member	Search committee for Associate Dean for Research, Fairbanks School of Public Health
2015	Search Committee, Member	Search committee for Director in the Biostatistics Shared Facility, IUSCC
2013-	Judge	Fairbanks School of Public Health MPH Final Project Poster Session (twice/year)
2016-	Advisory Committee, Member	T32 CA117865 “Interdisciplinary Training in Behavioral Oncology” Internal Advisory Committee
2016	Search Committee, Member	Sponsored Program Manager Position Search Committee
2016	Search Committee, Member	Search Committee for Cancer Epidemiologist, IUSCC
2017	Internal Advisory Committee, Member	Biostatistics Core, IUSCC
2018	Search Committee, Member	Search Committee for Cancer Quantitative Hub Director, IUSCC and Regenstrief Institute
2019-	Committee, Member	IUPUI Faculty Council (IFC) Research Affairs Committee
2019	Selection Committee, Chair	Outrun the Sun Scholarship Committee, Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University
2020-	Advisory Committee, Member	IUPUI Artificial Intelligence Institute
2020-	Member	IUPUI Public Access to Research Data Working Group
2021-2022	PhD Program Director	Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University
2022	Search Committee, Chair	The position of the Department Chair of Social and Behavioral Sciences, Richard M. Fairbanks School of Public Health, Indiana University

*National*

2010-2014	Cancer Post Genome-Wide Association Study Initiative, Member	National Cancer Institute/National Institutes of Health (NCI/NIH)
2021	Site Visit Team Member	Review of the NCI Intramural Laboratory of Translational Genomics, June 7-9, 2021

*International*

2009-	Consortium on MC1R variants, skin cancer and phenotypic characteristics (M-SKIP) Advisory Committee, Member	European Institute of Oncology, Milan, Italy
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2010-2013	BioGenoMEL consortium on genetic determinants of melanoma outcome Steering Group, Member	Leeds Institute of Molecular Medicine, University of Leeds, UK
2011-2013	Lung Cancer Cohort Consortium Steering Group, Member	International Agency for Research on Cancer (IARC), France
2014-	Keratinocyte Carcinoma Consortium Steering Committee, Member	
2017-	Interactional Consortium of Genome-Wide Association Data for Susceptibility to Cutaneous Squamous Cell Carcinoma, Co-Leader	
2020-	The Skin Cancer Outcomes (SCOUT) Consortium, Member	Brigham and Women's Hospital, Harvard Medical School

### Professional Societies

2003-2004	American Association for Cancer Research (AACR)	Associate Member
2005-	AACR	Active Member
2004-	Environmental Mutagen Society	Member Society Vision Committee Member 2009
2006-	Society for Epidemiologic Research	Member
2007-	Society for Melanoma Research	Member
2008-	Society for Investigative Dermatology	Active Member
2010	Society for Investigative Dermatology – American Academy of Dermatology Co-Morbidity Conference	Co-Chair of Session: Epidemiologic and Genetic Bases for Complete Patient Care
2009	American Society of Human Genetics	Member
2010-	American DermatoEpidemiology Network	Member Symposium Moderator 2012

### Grant Review Activities

2006	Italian Association for Cancer Research	Foreign Grant Reviewer
2007	Health Research Board, Ireland	Foreign Grant Reviewer
2007	Epidemiology of Cancer (EPIC)	National Institutes of Health, Study Section Member
2008	Ancillary Studies Committee of the Women's Health Initiative	Grant Reviewer
2008	Panel (CET-5) Congressionally Directed Medical Research Program	US Department of Defense, Panel Member
2008	Panel (Epidemiology) Congressionally Directed Medical Research Program	US Department of Defense, Panel Member
2008	Panel (CBY-5) Congressionally Directed Medical Research Program	US Department of Defense, Panel Member
2009	Ohio Cancer Research Associates	Grant Reviewer
2009	Center for Scientific Review, Special Emphasis Panel ZRG1 PSE-C	National Institutes of Health, Panel Member

2009	Center for Scientific Review, Special Emphasis Panel ZRG1 PSE-J	National Institutes of Health, Panel Member
2009	Panel (Epidemiology) Congressionally Directed Medical Research Program	US Department of Defense, Panel Member
2009	Panel (Concepts-Genetic Cancer #2) Peer Reviewed Cancer Research Program	US Department of Defense, Panel Member
2009	General Office of Scientific Research and Technology, Call for Young Researchers	Italian Ministry of Health, Panel Member
2010	Clinical Cancer Research and Epidemiology	American Cancer Society, Panel Member
2010	Panel Peer Reviewed Cancer Research Program (Skin Cancer Research Program)	US Department of Defense, Panel Member
2011	The Netherlands Genomics Initiative	Grant Reviewer
2011	Research Grant Council of Hong Kong	Grant Reviewer
2011	Association of International Cancer Research (AICR), UK	Grant Reviewer
2011	Peer Reviewed Cancer Research Program, Discovery-Skin Cancers (D-SC-2)	US Department of Defense, Panel Member
2012	Junior Scientists Research Experience Program	Qatar National Research Fund, Grant Reviewer
2012	The Netherlands Organization for Scientific Research	Grant Reviewer
2014	Epidemiology of Cancer (EPIC)	National Institutes of Health, Study Section Member
2014	The National Priorities Research Program	Qatar National Research Fund, Grant Reviewer
2015	Special emphasis panel (ZES1 SET-K): Hubs of Interdisciplinary Research and Training in Global Environmental and Occupational Health (GEOHealth) U01 and U2R	National Institutes of Health, Study Section Member
2015	IUPUI OVRC internal competition Amgen Foundation Grant	Grant Reviewer
2015	Indiana Biobank Pilot Grant	Grant Reviewer
2015	National Cancer Institute OMNIBUS R03 & R21 ZCA1 SRB-X (J1) S	National Cancer Institute, Study Section Member
2016	ZRG1 F16-E (09) F and F16-L (20) L Fellowships (F31s and F32s): Risk, Prevention and Health Behavior	National Institutes of Health, Study Section Member
2016	NCI OMNIBUS R03 ZCA1 SRB-5 (O1)	National Cancer Institute, Study Section Member
2018	NCI ZRG1 OTC-W (55) R RFA-CA-17-035-Pre-Cancer Atlas Research Centers	National Cancer Institute, Study Section Member
2018	Austrian Science Fund	Grant Reviewer
2018	Peer Reviewed Cancer Research Program, MOSC-1	US Department of Defense, Panel Reviewer
2021	Peer Reviewed Melanoma Research Program, Melanoma Academy Leadership	US Department of Defense, Panel Reviewer

## Editorial Activities

### Editorial Board

2009-2016	Associate Editor	Cancer Causes and Control
2010-2013	Editorial Board Member	Experimental Dermatology
2010	Guest Associate Editor	PloS Genetics
2004-	<i>Ad hoc Reviewer for more than 120 peer-reviewed journals</i>	

## Honors and Prizes

1995-1998	Merit Fellowship	Nankai University, China
1999-2002	Fredrick J. Stare Fellowship	Harvard T.H. Chan School of Public Health, Boston, MA
2004	Runner up, Edgar Haber Award <i>The Edgar Haber Award for outstanding achievement in the biological sciences is presented annually to one graduating Ph.D. or S.D. student in the Division of Biological Sciences at the Harvard T.H. Chan School of Public Health. The award recognizes outstanding, original and creative dissertation work that makes a fundamental contribution to our understanding of a biological problem of importance in Public Health.</i>	Harvard T.H. Chan School of Public Health, Boston, MA
2004	Molecular Epidemiology Group/Scholar-in-Training Award ( <i>Awarded for three most meritorious proffered papers</i> )	American Association for Cancer Research
2007	Inaugural Biomedical Research Institute Research Excellence Award	Brigham and Women's Hospital, Boston, MA
2008	Selected for Leadership Development Program for Physicians and Scientists	Harvard Medical School, Boston, MA
2009	Selected for Faculty Mentoring Leadership Program	Brigham and Women's Hospital, Boston, MA
2010	Nominated for 4 <sup>th</sup> Annual Young Mentor Award	Harvard Medical School, Boston, MA
2012	Nominated for Research Leadership Award	Brigham and Women's Hospital, Boston, MA

## Community Contributions

2020-	Outrun the Sun Foundation	Member, Board of Directors
2020	City of Indianapolis	Member, Contact Tracing Leadership Team, Richard M. Fairbanks School of Public Health, Indiana University

## In the News

- [FSPH Professor Partners with Simon Property Group on Curbside and Reopen Policies](#)
- [IU researcher makes skin cancer discovery](#)
- [News Medical Life Sciences: Study highlights impact of early detection on skin cancer survival](#)
- [Science Trends: Cancer Risk Found Associated With Novel Diabetes Medications – SGLT2 Inhibitors](#)
- [Outrun the Sun Partners with Fairbanks School of Public Health to Combat Skin Cancer](#)
- [IUPUI News: Exposure to Sun or UV Light Induces an Opioid Response that is Associated with Tanning Addiction](#)
- [Yahoo News: Young Women Know About Skin Cancer Risks — But They're Still Using Tanning Beds](#)
- [IUSCC Press Release: New areas in human genome linked to increased risk of skin cancer](#)
- [CBS News: Moles may be sign of higher breast cancer risk](#)
- [Healthday: History of Prostate Cancer Tied to Higher Odds for Melanoma](#)
- [Science Daily: Nut consumption linked to reduced death rate](#)
- [NBC News: Skin cancer linked to other cancer risks](#)
- [Harvard Gazette: Exercise reduces psoriasis risk](#)
- [Journal of Clinical Oncology editorial commentary: Public health and the tanning bed controversy](#)
- [Journal of National Cancer Institute News: Research sheds light on indoor tanning and cancer risk](#)
- [Fox News: Tanning beds and skin cancer](#)
- [NBC News: Coffee drinking and skin cancer](#)
- [NBC News: Red hair color and skin cancer](#)

## Report of Funded Projects

### Past

2003-2004	Genetic Variation, DNA Repair and Skin Cancer NIH/NCI R03CA97746 Co-Investigator (PI, David Hunter) <i>Examined the genetic variants in XPD, XRCC1, and XRCC3 in relation to skin cancer risk.</i>
2003-2007	Breast & Prostate Cancer and Hormone-Related Gene Variants NIH/NCI U01CA98233 Co-Investigator (PI, David Hunter) <i>Evaluated the genetic variants in hormone-related genes and breast and prostate cancer risk.</i>
2004-2005	Developmental Project Award Harvard SPORE Skin Cancer NIH/NCI P50 CA093683-2 Recipient <i>Examined the association between the haplotypes of DNA repair genes and skin cancer risk.</i>
2004-2006	Genetic Polymorphisms, Helicobacter pylori, and Esophageal Adenocarcinoma Risk NIH/NCI R03 CA110822 Co-Investigator (PI, Jeffrey Liu) <i>Assessed candidate DNA repair and oxidative stress genes in the etiology of esophageal cancer.</i>
2004-2007	Nucleotide Excision Repair Gene Variants and Skin Cancer NIH/NCI R03 CA113100 Principal Investigator <i>Evaluated the nucleotide excision repair pathway in the development of skin cancer.</i>
2007-2009	Genetic Variants in Pigmentation Genes and Skin Cancer Risk



	NIH/NCI R03CA128080 Principal Investigator <i>The goal of this study was to examine genetic markers in the pigmentation pathway in the etiology of different types of skin malignancies simultaneously.</i>
2007-2009	Nitric Oxide Synthase Polymorphisms and Risk for Skin Cancer NIH/NCI R03CA130055 Co-Investigator (PI, Abrar Qureshi) <i>Proposed to evaluate genetic polymorphisms of the three nitric oxide synthase genes in relation to risk for melanoma, squamous cell carcinoma, and basal cell carcinoma.</i>
2007-2009	Genetic Variants in Immunological Mediator Genes and Skin Cancer Risk NIH/NCI R03CA132175 Principal Investigator <i>Proposed to examine genetic variants in immunological mediator genes and the risk of skin cancer.</i>
2007-2011	Prospective Study of DNA Repair Gene Variants in Breast Cancer NIH/NCI R01CA118447 Principal Investigator <i>Proposed to prospectively evaluate inherited polymorphisms in DNA repair and related genes with breast cancer risk in older women.</i>
2008-2011	Prospective Study of Telomere Length and Melanoma Risk NIH/NCI R03CA133914 Principal Investigator <i>Proposed to evaluate genetic variants in telomere length-related genes and overall telomere length and the risk of melanoma.</i>
2009-2011	Genetic Variants in microRNA Related Genes and Skin Cancer Risk NIH/NCI R03CA139496 Co-Investigator (PI, Hongmei Nan) <i>Proposed to examine genetic variants in microRNA-related genes in the etiology of different types of skin malignancies simultaneously.</i>
2009-2011	Genetic Variants in Mitochondrial Genome and Skin Cancer Risk NIH/NCI R03CA141606 Co-Investigator (PI, Hongmei Nan) <i>Proposed to examine genetic variation in mitochondrial genome in the etiology of skin cancer.</i>
2009-2011	Cohort Study of Genetic Susceptibility to Cutaneous Malignant Melanoma NIH/NCI R01CA122838-S1 (Supplement to the parent R01) Principal Investigator <i>Proposed to assess genetic variants in DNA repair genes and the risk of melanoma.</i>
2008-2012	Cohort Study of Genetic Susceptibility to Cutaneous Malignant Melanoma NIH/NCI R01CA122838 Principal Investigator <i>Proposed to assess genetic variants in DNA repair genes and the risk of melanoma.</i>
2008-2013	SPORE in Skin Cancer, Project 5 Correlating environmental and genetic risk factors with molecular signatures NIH/NCI P50CA093683 Principal Investigator <i>Proposed to conduct a population-based study of risk factors and outcomes associated with the novel melanoma classification.</i>
2009-2013	Oxidative Stress, Antioxidants and Risk of Breast Cancer: A Prospective Analysis NIH/NCI R01CA131218 Co-Investigator (PI, A. Heather Eliassen)

2011-2013	<p><i>Proposed to examine plasma biomarkers of oxidative stress and antioxidants and risk of breast cancer.</i></p> <p>Cancer and Endometriosis Mazzone Award, Dana Farber Cancer Institute Co-Investigator (PI, Stacey Missmer) <i>Proposed to prospectively evaluate if endometriosis in over 8,000 laparoscopically confirmed cases increases a woman's risk for development of breast cancer, ovarian cancer or melanoma.</i></p>
2009-2014	<p>Molecular Signatures of Melanoma Histology and Progression NIH/NCI R01CA137365 Co-Investigator (PI, Abrar Qureshi) <i>Proposed to identify a molecular signature for the histology and progression of melanoma.</i></p>
2009-2014	<p>Prospective Study of Restless Leg Syndrome NIH/NINDS R01NS062879 Co-Investigator (PI, Xiang Gao) <i>Proposed to evaluate both lifestyle and genetic risk factors for restless leg syndrome.</i></p>
2010-2014	<p>Transdisciplinary Research in Cancer of the Lung (TRICL) NIH/NCI U19 CA148127 Site Principal Investigator (PI, Christopher Amos) <i>The applicant in this U19 submission proposed to integrate eight existing GWAS in order to analyze specific subsets (histology, gender, never-smokers, ethnicity), then determine the consequences of variants on known susceptibility genes, and finally to produce a risk assessment.</i></p>
2014-2015	<p>Validation of melanoma diagnosis in Indiana Patient Network. Merck / Regenstrief Collaboration Regenstrief Institute / Merck 045373-00003B Co-Investigator (PI, John Duke) <i>This is a large grant to Regenstrief Institute from the Merck Corporation with several subprojects, similar in scope to an NIH program project grant. Effort is specific to the Melanoma Algorithm subproject and the related consortium agreement between Indiana University and Regenstrief Institute. This subproject focused on validation of melanoma diagnosis in Indiana Patient Network.</i></p>
2014-2015	<p>Mitochondrial DNA copy number and hepatocellular carcinoma in a Chinese Han population International Development Fund (IDF), OVCR, IUPUI Principal Investigator <i>The overall hypothesis of the study is that mtDNA copy number in PBLs is associated with the risk of hepatocellular carcinoma in the Chinese Han population.</i></p>
2014-2015	<p>Design and Biostatistics Program of the CTSI, Indiana University Co-investigator (as committee member)</p>
2011-2015	<p>One-carbon metabolism biomarker and lung cancer risk NIH/NCI U01CA155340 Site Principal Investigator (PI, Paul Brennan) <i>The proposed study includes 3600 case-control pairs, aims to clarify a potentially strong beneficial role of B-vitamins and related factors in lung cancer development. The study is conducted in collaboration with multiple cohorts, and may identify important biomarkers for lung cancer risk prediction.</i></p>
2013-2015	<p>Integrating Genetics of Gene Expression into Pathway Analysis for Melanoma GWAS NIH/NCI R03CA167741 Principal Investigator <i>The goal of the current proposal was to assess the associations of biological pathways with melanoma risk by integrating the skin eQTLs into the pathway analysis for melanoma GWAS.</i></p>

2014-2016	<p>Genome-Wide Gene-Caffeine Interactions on Risk of Skin Basal Cell Carcinoma NIH/NCI R03CA188568 Principal Investigator <i>The goal of the current proposal was to assess the interactions between caffeine and genetic variants at genome wide level on the risk of BCC of the skin.</i></p>
2014-2019	<p>Indiana University Melvin and Bren Simon Cancer Center Support Grant NIH/NCI 2P30CA082709-17 (Loehrer) Program Leader for Cancer Prevention and Control <i>The major goal of this project is to establish an NCI designated Cancer Center by facilitating cancer research, education, patient care, and cancer control and prevention to accomplish its mission of reducing the incidence, morbidity, and mortality of cancer.</i></p>
2017-2020	<p>An integrative approach to identify causal epigenetic markers for breast cancer NIH/NCI R01CA194030-03 (He) Co-Investigator <i>The objective of this proposal is to identify potentially causal DNA methylation markers that driver breast cancer development using the Komen Tissue Bank of normal breast tissues.</i></p>
2018-2020	<p>Integrating Genetics of Gene Expression into Pathway Analysis for Skin SCC GWAS NIH/NCI 1R03CA219779 – 01A1 (Han) Principal Investigator <i>A post-GWAS study integrating GWAS on SCC and GWAS on gene expression in skin into a pathway analysis to uncover the potential relations between biological pathways and SCC development.</i></p>
2018-2021	<p>Vitamin D and Opioid Use: From Real-World Data to Clinical Practice Indiana University Grand Challenge: Opioid Crisis (Li) Co-Investigator <i>The objective of this proposal is to conduct molecular and genetic epidemiology research using EMR data and clinical databases.</i></p>
2020-2021	<p>Establishing a Breast Cancer Cohort with Data Enrichments via Natural Language Processing Merck / Regenstrief Collaboration Regenstrief Institute / Merck 045373-00003B Co-Lead (Lead, Paul Dexter) <i>This is a large grant to Regenstrief Institute from the Merck Corporation with several subprojects, similar in scope to an NIH program project grant. This project will augment both Merck's and Regenstrief's ability to conduct real-world cancer research by integrating multiple research data sources to identify patients and outcomes of interest. The data sources include INPC (The Indiana Network for Patient Care research database), Eskenazi Health Data, and IUH (Indiana University Health) unstructured data, and IUH chemotherapy data warehouse, and will pursue integration of ICR (Indiana Cancer Registry) data. The findings will be used to support Merck, and fill triple negative breast cancer knowledge gaps with respect to patient characteristics, medical care, healthcare resource utilization, and clinical outcomes in real-world settings.</i></p>

**Current Funding:**

**Precision Health Initiative-Fairbanks School of Public Health (Nan)**

07/01/17 – 06/30/22

0.6 calendar

Indiana University Grand Challenge

Precision Health Research in Genetic Epidemiology

Co-Director

The objective of this proposal is to conduct molecular and genetic epidemiology research using EMR data and clinical databases.

**Integrative functional characterization of genetic loci for cutaneous basal cell carcinoma**

1R03CA245886– 01A1 (Han)

07/01/2020 – 06/30/2022

0.6 calendar

NIH/NCI

Principal Investigator

**Pre-doctoral Trainees (NIH Table 5A) (\* co-mentor)**

<b>Past / Current Trainee</b>	<b>Trainee Name (Where Training Occurred)</b>	<b>Training Period (Degree)</b>	<b>Prior Academic Degree Institution(s)</b>	<b>Prior Academic Degree(s)</b>	<b>Prior Academic Degree Year(s)</b>	<b>Title of Research Project</b>	<b>Current Position of Past Trainees / Source of Support of Current Trainees</b>
past	<b>Erin Wei *</b> MD student, Harvard Medical School	2010-1011 (MD)	Massachusetts Institute of Technology	BS	2009	Risk factors & UV exposure on multiple non-melanoma skin cancers NOTE: Student intern, one 4 <sup>th</sup> -year Harvard Medical School medical student taking a year off to do clinical research in the Doris Duke Fellowship Program	Instructor in Dermatology, Brigham & Women's Hospital, Harvard Medical School
past	<b>Hillary Frankel *</b> MD student, Harvard Medical School	2010-2011 (MD)	Princeton	BS	2007	Physical activity and psoriasis NOTE: Student intern, one 4 <sup>th</sup> -year Harvard Medical School medical student who was awarded a year-long HMS Scholars in Medicine Research Fellowship	Clinical Fellow in Dermatology, Massachusetts General Hospital
past	<b>Xin Li</b> Harvard T.H. Chan School of Public Health	2011-2016 (ScD)	Shanghai Jiaotong University	BS	2010	Common genetic basis of non-melanoma skin cancer NOTE: academic/thesis advisor	Visiting Assistant Professor, FSPH
past	<b>Andrew Walls *</b> MD Student, UMASS	2011-2012 (MD)	UMASS	BS	2011	Epidemiology of in-situ melanoma	Clinical Fellow in Dermatology, Brigham & Women's Hospital

Past / Current Trainee	Trainee Name (Where Training Occurred)	Training Period (Degree)	Prior Academic Degree Institution(s)	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Khang Nguyen *</b> Brigham & Womens Hospital	2011-2012 (MD)	Stanford University	BS	2011	Trend & risk factors for incident squamous cell carcinoma NOTE: Student intern, one 4 <sup>th</sup> -year Harvard Medical School medical student taking a year off to do clinical research in the Doris Duke Fellowship Program	Medical Student, West Roxbury Medical Group (Massachusetts)
past	<b>Juan Wang</b> Brigham & Womens Hospital	2011-2013 (PhD)	Beijing Medical University	BS	2000	Health conditions according to hair color NOTE: visiting graduate student	PhD student at Jilin University
past	<b>Li Ye</b> Harvard University	2008 (PhD)	Tsinghua University	BS	2006	Telomere length & skin cancer risk NOTE: as rotation student	Research Associate, Stanford University
past	<b>Chunyan He</b> Harvard T.H. Chan School of Public Health	2007-2009 (ScD)	Shanghai Inst. Of Biochemistry & Cell Biology, Chinese Academy of Science	MS	1998	Genetic variation in skin cancer risk	Gilbert H. Friedell Professor in Cancer Prevention and Control, University of Kentucky College of Medicine
past	<b>Genevieve Monsees</b> Harvard T.H. Chan School of Public Health	2008-2010 (ScD)	London School of Hygiene & Tropical Medicine	M.Sc.	2004	Genetic variants in DNA repair genes & breast cancer risk NOTE: doctoral thesis committee member	Domestic Engineer in the Field of Child Development, San Francisco Bay Area

Past / Current Trainee	Trainee Name (Where Training Occurred)	Training Period (Degree)	Prior Academic Degree Institution(s)	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Margaret Du</b> Harvard T.H. Chan School of Public Health	2009-2010 (ScD)	BS	BS	2007	Telomere length in the etiology of melanoma	Assistant Professor, Memorial Sloan Kettering Cancer Center
past	<b>Jing Xie</b> Harvard T.H. Chan School of Public Health	2009-2010 (ScD)	Emory University	MPH	2008	Skin cancer and endometriosis	Senior scientist, Sanofi Pharmaceuticals
past	<b>Salma Pothiawala</b> Harvard T.H. Chan School of Public Health	2009-2010 (MPH)	Harvard T.H. Chan School of Public Health	MD	2008	Obesity and skin cancer risk	Dermatologist, Schweiger Dermatology, NY
past	<b>Shasha Meng</b> Harvard T.H. Chan School of Public Health	2010-2015 (ScD)	UAB	MS	2007	Genetic basis on Parkinson's disease and Melanoma NOTE: academic/thesis advisor	Strategy consultant at Strategy& (formerly Booz & Company)
past	<b>Dayong Si</b> Brigham & Women's Hospital	2013 (PhD)	Beijing Medical University	BS	2000	Health conditions according to hair color NOTE: visiting research fellow	Instructor at Jilin University
past	<b>Chia-Yen Chen</b> Harvard T.H. Chan School of Public Health	2012-2013 (ScD)	National Taiwan University	MS	2006	Genetic & ancestry components of skin pigmentation NOTE: doctoral thesis committee member	Postdoctoral research fellow at the Analytic & Translational Genetics Unit and the Psychiatric & Neurodevelopmental Genetics Unit at Massachusetts General Hospital

Past / Current Trainee	Trainee Name (Where Training Occurred)	Training Period (Degree)	Prior Academic Degree Institution(s)	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Fangyi Gu</b> Sc.D student, Harvard T.H. Chan School of Public Health	2007-2010 (ScD)	Peking Union Medical College	MD	2004	Immunological genetic variants in relation to melanoma risk	Assistant Professor at Rosewell Park Cancer Center
past	<b>Keming Yang</b> Fairbanks School of Public Health	2015-2020 (PhD)	Nanjing Medical University	MD, MS	2012, 2015	WES sequencing of skin tumor samples; pooled-analysis of cancer incidence in frequent fliers; Indoor tanning use among college students;  NOTE: doctoral thesis committee member	Postdoc Fellow, Harvard T.H.Chan School of Public Health
past	<b>Erika Biederman,</b> Ph.D student, IUPUI School of Nursing	2016-2021	Indiana University	BSN in Nursing	2014	NOTE: minor advisor, committee member	Postdoc Fellow, Ohio State University
past	<b>Huilin Tang,</b> Research Fellow, Fairbanks School of Public Health	2016-2019	Peking University	Master of Clinical Pharmacy	2011	Pharmacoepidemiology of cancer	PhD student, Pharmacoepidemiology Program, University of Florida
past	<b>Andrew Marley,</b> PhD student, Fairbanks School of Public Health	2017-2020				NOTE: committee member	PhD student at Fairbanks School of Public Health



Past / Current Trainee	Trainee Name (Where Training Occurred)	Training Period (Degree)	Prior Academic Degree Institution(s)	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Jing Xia</b> , PhD student, Fairbanks School of Public Health	2017- 2020				NOTE: committee member	PhD student at Fairbanks School of Public Health
Current	<b>Mingyue Li</b> , PhD student, Fairbanks School of Public Health	2020- current	University of Florida	MPH in biostatistics	2020	Primary mentor	PhD student at Fairbanks School of Public Health
Current	<b>Bojung Seo</b> , PhD student, Fairbanks School of Public Health	2020- current	Korea University	MPH in epidemiology	2016	Primary mentor	PhD student at Fairbanks School of Public Health

**Post-doctoral Trainees (NIH Table 5B) (\* co-mentor)**

<b>Past / Current Trainee</b>	<b>Trainee Name (Where Training Occurred)</b>	<b>Postdoc Research Training Period</b>	<b>Prior Academic Degree(s)</b>	<b>Prior Academic Degree Year(s)</b>	<b>Prior Academic Degree Institution(s)</b>	<b>Title of Research Project</b>	<b>Current Position of Past Trainees / Source of Support of Current Trainees</b>
past	<b>Hongmei Nan</b> Channing Division of Network Medicine, Brigham & Women's Hospital	2007-2011	MD, PhD	1994, 2002	College of Medicine, Yanbian University (China) College of Medicine, Chungbuk National University (South Korea)	Genetic basis for mole count and telomere length NOTE: She produced eleven first-author manuscripts and was awarded two NIH R03 grants as PI	Associate Professor, FSPH Director, Epidemiology Consultation Core, IUSCC
past	<b>Wen-Qing Li *</b> Brigham & Women's Hospital	2010-2013	MD, PhD	2009	Peking University	Psoriasis related co-morbidities & skin cancer risk factors. NOTE: several high profile publications	Assistant Professor of Dermatology & Epidemiology, Brown University

Past / Current Trainee	Trainee Name (Where Training Occurred)	Postdoc Research Training Period	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Prior Academic Degree Institution(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Fengju Song</b> Brigham & Women's Hospital	2010-2012	MD, PhD	2008	Tianjin Medical University	Epidemiology of skin cancer NOTE: He has several high profile publications and won the US Chinese Anti-Cancer Association (USCACA) and US National Foundation for Cancer Research (NFCR) Scholarship award in 2014.	Associate Investigator, Director of Department of Epidemiology and Biostatistics, Tianjin Medical University Cancer Institute and Hospital, Tianjin, China
past	<b>Geyu Liang</b> Brigham & Women's Hospital	2010-2011	MD	2008	Southeast University	Sleep pattern, telomere lengths and non-melanoma skin cancer	Professor and Associate Dean, School of Public Health, Southeast University, Nanjing, China
past	<b>Marina Kvaskoff *</b> Channing Laboratory, Brigham and Women's Hospital	2011-2014	MPH, PhD	2006, 2009	MPH from the University of Paris in 2006, and PhD jointly from the University of Paris (France) and the University of Queensland (Australia) in 2009.	Hormonal risk factors for skin cancer development. NOTE: She was awarded the Marie Curie fellowship from Research Executive Agency of European Union. She won a Postdoctoral Research Fellow Leadership Award from BWH Center for Faculty Development and Diversity.	Research Scientist, Marie Curie Fellow, Inserm U1018, Centre for Research in Epidemiology and Population Health (CESP), France

Past / Current Trainee	Trainee Name (Where Training Occurred)	Postdoc Research Training Period	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Prior Academic Degree Institution(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Laura Winterfield *</b> Brigham & Women's Hospital	2009-2012	MD, MPH	2008	Vanderbilt School of Medicine	Wound healing	Associate Professor, Loyola University Chicago Stritch School of Medicine
past	<b>Ruth Ann Vleugels *</b> Brigham & Women's Hospital	2009-2013	MD, MPH	2004	Vanderbilt School of Medicine	Cohort analysis of risk factors for psoriasis	Associate Professor, Harvard Medical School
past	<b>Patrick Dominique *</b> Brigham & Women's Hospital	2009-2010	MD	2008		Psoriasis outcome validation in cohorts and cohort analysis of depression and psoriasis	
past	<b>Sandeep Kumar *</b> Brigham & Women's Hospital	2009-2010	MD	2008	Maulana Azad Medical College	Obesity and psoriasis and psoriatic arthritis	Dermatologist, Veteran Affairs Medical Center, Lexington, KY
past	<b>Min Chen</b> Brigham & Women's Hospital	2012-2013	MD, PhD	2008	Peking Union Medical College	Psoriasis and risk of non-melanoma skin cancers	Associate Professor, Institute of Dermatology, Chinese Academy of Medical Sciences & Peking Union Medical College, China
past	<b>Shaowei Wu *</b> Brigham & Women's Hospital	2012-2013	PhD	2011	Peking University, China	Skin cancer epidemiology	Investigator, Peking University, School of Public Health, China

<b>Past / Current Trainee</b>	<b>Trainee Name (Where Training Occurred)</b>	<b>Postdoc Research Training Period</b>	<b>Prior Academic Degree(s)</b>	<b>Prior Academic Degree Year(s)</b>	<b>Prior Academic Degree Institution(s)</b>	<b>Title of Research Project</b>	<b>Current Position of Past Trainees / Source of Support of Current Trainees</b>
past	<b>Hongji Dai</b> IU Fairbanks School of Public Health	2014-2016	PhD	2013	Tianjin Medical University, Tianjin, China	Genomic profiles in tumor samples	Assistant Investigator, Dept of Epidemiology & Biostatistics, Tianjin Medical University Cancer Institute & Hospital, China
past	<b>Wenting Wu</b> IU Fairbanks School of Public Health	2014-2017	PhD	2010	Fudan University, China	Genomic profiles in skin cancer	Assistant Research Professor of Department of Medical & Molecular Genetics, Indiana University
past	<b>Yuan Lin</b> IU Fairbanks School of Public Health	2015-2016	MD, PhD	2011, 2017	MD, 2011, PhD, 2017, Nanjing Medical University, Nanjing, China	Cohort analysis of skin cancer	Professor and Chair, Department of Maternal Child and Adolescent Health, School of Public Health, Nanjing Medical University
past	<b>Xin Li</b> Harvard T.H. Chan School of Public Health	2016-2017	ScD	2016	Harvard T.H. Chan School of Public Health	Epidemiology of mole count and skin cancer	Assistant Professor, Fairbanks School of Public Health

Past / Current Trainee	Trainee Name (Where Training Occurred)	Postdoc Research Training Period	Prior Academic Degree(s)	Prior Academic Degree Year(s)	Prior Academic Degree Institution(s)	Title of Research Project	Current Position of Past Trainees / Source of Support of Current Trainees
past	<b>Mingfeng Zhang</b> Brigham & Women's Hospital	2010-2013	MD, PhD	2007, 2012	MD, 2007, PhD, 2012, Nanjing Medical University, China	Skin cancer epidemiology NOTE: She had several high profile publications and won Molecular Epidemiology Working Group of the American Association for Cancer Research Scholar-in-Training Award for the AACR 102 <sup>nd</sup> Annual Meeting (Awarded for three most meritorious proffered papers). She was awarded a NIH R03 grants as PI. She was awarded an International Investigative Dermatology 2013 World Congress Travel Fellowship Award for Annual Meeting in Edinburgh, Scotland.	Staff fellow at FDA, center for drug evaluation and research, office of pharmacovigilance and epidemiology, department of epidemiology II.
Past	<b>Wen Lin</b> MPH student, Harvard T.H. Chan School of Public Health	2009-2010	MD, PhD	1997, 2002	MD Tongji Medical University, WuHan, 1997; PHD Peking Union Medical College & China Academy of Medical Sciences, Beijing, 2002	Pigmentation genes and multiple non-melanoma skin cancer	Epidemiologist II, Santa Clara County Public Health Department



## Report of Local Teaching and Training

### Teaching of Students in Courses

<i>Harvard T.H. Chan School of Public Health</i>		
2005-10	Molecular Biology for Epidemiologists	Guest Lecturer
	30 Graduate Students	4 hours/year
	<i>This course won a 2007 Harvard T.H. Chan School of Public Health Teaching Award.</i>	
2006-08	Molecular Epidemiology of Cancer	Guest Lecturer
	15 Graduate Students	2 hours/year
2009	Genetic Epidemiology	Co-developer and co-instructor
	14 Graduate Students	32 hours/year (co-taught with Dr. David Hunter)
	<i>My overall evaluation score was 4.6 out of 5. This course was then selected as a required course for all students at the Department of Epidemiology.</i>	
2012	Practice of Epidemiology	Faculty Advisor
	16 Graduate Students	6 hours/year
<i>Indiana University, Richard M. Fairbanks School of Public Health, IUPUI</i>		
2015	Grant Writing	Course developer
		3 credit hours
2016	Chronic Disease Epidemiology	Guest lecturer, one session
2017	Doctoral Seminar	Guest lecturer, one session
2018-2019	Grant Writing	Course instructor
		3 credit hours
2019-	Applied Molecular Epidemiology of Cancer	Course developer and instructor
		3 credit hours
2020-	Overview of Precision Health	Course developer and instructor
		3 credit hours
2020-	Epidemiology in Global Health	Course Co-developer
		3 credit hours

### Local Invited Presentations-Affiliated

2004	<i>"The p53 Codon 72 Polymorphism, Sunburns, and Risk of Skin Cancer in US Caucasian Women"</i>	Seminar
	Channing Seminar Series, Channing Laboratory, Brigham and Women's Hospital	
2007	<i>"Genetic Susceptibility to Skin Cancer"</i>	Seminar
	Harvard Medical School/Partners Healthcare Center for Genetics and Genomics	
2008	<i>"Exploring Gene-Environment Interactions in Skin Cancer"</i>	Seminar
	Department of Dermatology, Brigham and Women's Hospital	
2009	<i>"Genetic Association Studies of Cancer"</i>	Seminar



2009	Harvard Medical School Chinese Biomedical Student Organization "Prospective Study of Telomere Length and Skin Cancer"	Seminar
2009	Department of Dermatology, Brigham and Women's Hospital "Genetic Association Studies in Unrelated Subjects"	Seminar
2009	Department of Dermatology, Brigham and Women's Hospital "Sun and Skin Cancer at Christmastime in Boston"	Seminar
2010	Channing Laboratory, Brigham and Women's Hospital "Risk for multiple non-melanoma skin cancers among US women and men"	Seminar
2010	Clinical Research Program, Department of Dermatology, Brigham and Women's Hospital "Correlating phenotypic risk factors with molecular signatures in melanoma"	Seminar
2011	Harvard Skin SPORE/Dana Farber Harvard Cancer Center Melanoma and Cutaneous Oncology Program Retreat "Epidemiological Link between Parkinson's Disease and Melanoma"	Seminar
2011	Department of Dermatology, Brigham and Women's Hospital "Molecular epidemiology of pigmentation, mole and melanoma"	Seminar
2012	Brigham and Women's Hospital/Dana Farber Cancer Institute Melanoma Lecture Series "Expression profile of melanoma tissue blocks"	Seminar
2012	Harvard Skin SPORE Executive Committee Meeting "Overview of clinical research"	Seminar
2014	Department of Dermatology, Brigham and Women's Hospital "Molecular epidemiology of pigmentation, mole and melanoma"	Grand Round
2014	Department of Dermatology, Indiana University School of Medicine "Molecular epidemiology of pigmentation, mole and melanoma"	Seminar
2014	Cancer Prevention & Control Seminar Series, Simon Cancer Center, Indiana University "Melanoma: from molecular epidemiology to network medicine"	Grand Round
2014	Simon Cancer Center, Indiana University School of Medicine "Melanoma: from molecular epidemiology to network medicine"	Seminar
2019	Clinical Pharmacology Seminar Series, Indiana University School of Medicine "Melanoma: from molecular epidemiology to network medicine"	Seminar
2020	Center for Computational Biology and Bioinformatics, Indiana University School of Medicine "Melanoma: from molecular epidemiology to network medicine"	Lecture
	Warren Alpert Medical School, Brown University Visiting Professor, Brown Dermatology Research Lecture Series	

### Report of Regional, National and International Invited Teaching and Presentations Seminar

#### Regional

2003	"The XRCC1 Gene, Breast Cancer, and Skin Cancer"	Seminar
2009	Boston DNA Repair and Mutagenesis Seminar Series, Massachusetts Institute of Technology "Telomere Length and Skin Cancer Risk"	Seminar
2012	Center for Environmental Health Sciences, Massachusetts Institute of Technology "Molecular Epidemiology of Pigmentation, Mole and Melanoma"	Seminar
2014	Department of Dermatology, Boston University "The Future of Implementation Science"	Co-presenter and Panelist
2015	Behavioral Cooperative Oncology Group Fall Conference Indiana University, School of Nursing "Melanoma: from epidemiology to multidisciplinary research and network medicine"	Seminar

	Department of Medicinal Chemistry and Molecular Pharmacology, College of Pharmacy, Purdue University	
2018	“Melanoma: from epidemiology to multidisciplinary research and network medicine” Department of Epidemiology and Biostatistics, Indiana University, Bloomington	Seminar
<i>National</i>		
2004	“Genetic Polymorphism in DNA Repair Genes, Sunlight Exposure, and Skin Cancer Risk” The American Association for Cancer Research 95 <sup>th</sup> Annual Conference, Orlando, FL	Mini-symposium
2007	“Genetic Susceptibility to Skin Cancer” Cancer Epidemiology Seminar Series, School of Public Health, The University of North Carolina at Chapel Hill	Seminar
2007	“Genetic Variation in Base Excision Repair Genes in Relation to Skin Cancer Risk” The Environmental Mutagen Society 38 <sup>th</sup> Annual Meeting, Atlanta, Georgia	Symposium
2008	“Genetic Predisposition to Skin Cancer” Program on Genomics and Nutrition, the University of California at Los Angeles	Seminar
2008	“Molecular Epidemiology of Skin Cancer” Sylvester Comprehensive Cancer Center, Miller School of Medicine, University of Miami, Florida	Seminar
2009	“Molecular Epidemiology of Skin Cancer” Ingram Cancer Center, Vanderbilt University, Nashville, Tennessee	Seminar
2010	“Risk for multiple non-melanoma skin cancers among US women and men” The American DermatoEpidemiology Network (ADEN) Conference, Atlanta, Georgia	Symposium
2010	“Risk for multiple non-melanoma skin cancers among US women and men” Research in Cutaneous Surgery Symposium, the Society for Investigative Dermatology (SID) Annual Meeting, Atlanta, Georgia	Symposium
2011	“Cohort findings in genome-wide association study era” The American DermatoEpidemiology Network (ADEN) Conference, Phoenix, Arizona	Symposium
2011	“Updates on Genome-wide Association Studies” National Skin Cancer SPORE Retreat, Weston, Massachusetts	Seminar
2012	“Pre-diagnostic plasma 25-hydroxyvitamin D and risk of non-melanoma skin cancer in women.” Research in Cutaneous Surgery Symposium, the Society for Investigative Dermatology (SID) Annual Meeting, Raleigh, North Carolina	Symposium
2013	“Genetic epidemiology of pigmentation, mole and melanoma” Richard M. Fairbanks School of Public Health. Indiana University. Indianapolis, IN	Seminar
2015	“Melanoma: from epidemiology to network medicine” Department of Public Health, University of Chicago, Illinois	Seminar
2015	“Melanoma: from epidemiology to network medicine” Department of Preventive Medicine, Northwestern University, Chicago, Illinois	Seminar
2016	<i>Skin Cancer: From Epidemiology to Multidisciplinary Research &amp; Network Medicine</i> Hermann Pinkus Memorial Basic Science Course, The American Society of Dermatopathology 53 <sup>rd</sup> Annual Meeting. Chicago, Illinois	Seminar
2017	“Melanoma: From Molecular Epidemiology to Network Medicine” Ned Austell Memorial Melanoma Lecture The Eleventh Annual UNC Conference on Melanoma and Complex Skin Cancers: A Multidisciplinary Perspective, University of North Carolina, Chapel Hill	Keynote Speaker
2017	“Melanoma: From Molecular Epidemiology to Network Medicine” Melanoma Lecture Series, Dana Farber Cancer Institute, Boston, MA	Lecturer
2018	“Diet, Genetics and Skin Cancer” Department of Nutritional Sciences, The Pennsylvania State University	Seminar

2018	<i>“Skin cancer: from molecular epidemiology to network medicine”</i> Dermatology Department, Harbor-University of California, Los Angeles	Arnold Gurevitch Dermatology Grand Rounds
2019	<i>“Skin cancer: from molecular epidemiology to network medicine”</i> Department of Epidemiology, The MD Anderson Cancer Center	Seminar

### *International*

2000	<i>“RAD52 and Breast Cancer Risk”</i> Tumor Research Center, Tianjin Medical University, Center Hospital, Tianjin, China	Seminar
2009	<i>“Engaging Health Care Centers in the Study of Personalized Medicine”</i> The 3 <sup>rd</sup> International Conference Immunology and Skin Disease: Frontiers in Cutaneous Immunology, Boston, MA	Symposium
2009	<i>“Pathobiology and Analysis of Disease at the Population Level”</i> Chulabhorn Graduate Institute, Bangkok, Thailand Co-taught with Dr. John Groopman, Department Chair of Environmental Health Sciences, the Johns Hopkins Bloomberg School of Public Health (Baltimore, MD)	Course
2009	<i>“Genome-Wide Association Studies of Skin Cancer and Opportunities in Cohorts”</i> International Symposium for Genome-Wide Association Studies and Genetic Epidemiology, Shanghai, China	Symposium
2009	<i>“Opportunities and Challenges in Genome-Wide Association Studies”</i> School of Public Health, Nanjing Medical University, Nanjing, China	Seminar
2010	<i>“Post-GWAS challenges and opportunities – Psoriasis”</i> International Psoriasis Genetics Symposium, Guangzhou, China	Symposium
2010	<i>“Genome-wide association studies: opportunities in cohorts”</i> XVIth Annual Meeting of Pan American Society for Pigment Cell Research, Pigmentation and Melanoma Research Congress, Vancouver, Canada	Symposium
2011	<i>“Genome-wide association studies on dermatology-related traits”</i> The 4 <sup>th</sup> International Conference Immunology and Skin Disease: Frontiers in Cutaneous Immunology, Boston, MA	Symposium
2011	<i>“Opportunities in cohort: melanoma genetic susceptibility and molecular signature”</i> BioGenoMEL Conference, Leeds, UK	Seminar
2011	<i>“Cohort findings in genome-wide association study era”</i> Tianjin Medical University Cancer Institute and Hospital, Tianjin, China	Seminar
2011	<i>“Epidemiology of breast cancer: what’s new”</i> International Symposium on Breast Cancer Prevention Research and Treatment, Tianjin, China	Symposium
2011	<i>“Cohort findings in genome-wide association study era”</i> Cancer Institute and Hospital, Chinese Academy of Medical Sciences, Beijing, China	Seminar
2013	<i>“Genetic epidemiology of pigmentation, mole and melanoma”</i> Tianjin Medical University Cancer Institute and Hospital, Tianjin, China	Seminar
2013	<i>“Genetic epidemiology of pigmentation, mole and melanoma”</i> 2013 International Dermatogenetics Workshop, Chengdu, China	Symposium
2013	<i>“Epidemiology of pigmentation, mole, and melanoma.”</i> School of Public Health, Nanjing Medical University, Nanjing, China	Seminar
2013	<i>“Epidemiology of pigmentation, mole, and melanoma.”</i> Southeast University, Nanjing, China	Seminar
2014	<i>“Melanoma: from epidemiology to multidisciplinary research and network medicine”</i> Tianjin Medical University Cancer Institute and Hospital, Tianjin, China	Seminar
2014	<i>“Big data: from epidemiology to network medicine”</i>	Symposium

2015	Zhejiang Hospital, Hangzhou, Zhejiang, China “Big data: from epidemiology to network medicine” School of Public Health, Nanjing Medical University, Nanjing, China	Seminar
2018	“Examples of research ideas in skin cancer: genes, diet and drug use – beyond the sun” School of Public Health, Nanjing Medical University, Nanjing, China	Seminar

## Report of Scholarship

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

#### Research investigations

1. **Han J**, Hankinson SE, De Vivo I, Colditz GA, Hunter DJ. No association between a stop codon polymorphism in RAD52 and breast cancer risk. *Cancer Epidemiol Biomarkers Prev.* 2002 Oct;11(10 Pt 1):1138-9. PMID: 12376524
2. **Han J**, Hankinson SE, De Vivo I, Spiegelman D, Tamimi R, Mohrenweiser HW, Colditz GA, Hunter DJ. A prospective study of XRCC1 haplotypes and their interaction with plasma carotenoids on breast cancer risk. *Cancer Res.* 2003 Dec 1;63(23):8536-41. PMID: 14679022
3. **Han J**, Hankinson SE, Hunter DJ, De Vivo I. Genetic variations in XRCC2 and XRCC3 are not associated with endometrial cancer risk. *Cancer Epidemiol Biomarkers Prev.* 2004 Feb;13(2):330-1. PMID: 14973095
4. **Han J**, Hankinson SE, Ranu H, De Vivo I, Hunter DJ. Polymorphisms in DNA double strand break repair genes and breast cancer risk in the Nurses’ Health Study. *Carcinogenesis.* 2004 Feb;25(2):189-95. PMID: 14578164
5. **Han J**, Hankinson SE, Zhang S, De Vivo I, Hunter DJ. Interaction between genetic variations in DNA repair genes and plasma folate on breast cancer risk. *Cancer Epidemiol Biomarkers Prev.* 2004 Apr;13(4):520-4. PMID: 15066914
6. **Han J**, Colditz GA, Samson LD, Hunter DJ. Polymorphisms in DNA double strand break repair genes and skin cancer risk. *Cancer Res.* 2004 May 1;64(9):3009-13. PMID: 15126335
7. **Han J**, Hankinson SE, Colditz GA, Hunter DJ. Genetic variation in XRCC1, sun exposure, and risk of skin cancer. *Br J Cancer.* 2004 Oct 18;91(8):1604-9. PMID: PMC2409924
8. **Han J**, Colditz GA, Liu SJ, Hunter DJ. Genetic variation in XPD, sun exposure, and risk of skin cancer. *Cancer Epidemiol Biomarkers Prev.* 2005 Jun;14(6):1539-44. PMID: 15941969
9. **Han J**, Colditz GA, Hunter DJ. Lack of associations between selected variants of genes involved in cell cycle and apoptosis and skin cancer risk. *Cancer Epidemiol Biomarkers Prev.* 2006 Mar;15(3):592-3. PMID: 16537723
10. **Han J**, Tranah GJ, Hankinson SE, Samson LD, Hunter DJ. Polymorphisms in O6-methylguanine DNA methyltransferase and breast cancer risk. *Pharmacogenet Genomics.* 2006 Jul;16(7):469-74. PMID: 16788379
11. **Han J**, Cox DG, Colditz GA, Hunter DJ. The p53 codon 72 polymorphism, sunburns, and risk of skin cancer in US Caucasian women. *Mol Carcinog.* 2006 Sep;45(9):694-700. PMID: 16739124
12. **Han J**, Kraft P, Colditz GA, Wong J, Hunter DJ. Melanocortin 1 receptor variants and skin cancer risk. *Int J Cancer.* 2006 Oct 15;119(8):1976-84. PMID: 16721784
13. **Han J**, Hankinson SE, De Vivo I. Polymorphisms in O6-methylguanine DNA methyltransferase and endometrial cancer risk. *Carcinogenesis.* 2006 Nov;27(11):2281-5. PMID: 16777993

14. **Han J**, Colditz GA, Hunter DJ. Risk factors for skin cancers: a nested case-control study within the Nurses' Health Study. *Int J Epidemiol*. 2006 Dec;35(6):1514-21. PMID: 16943234
15. **Han J**, Colditz GA, Hunter DJ. Polymorphisms in the MTHFR and VDR genes and skin cancer risk. *Carcinogenesis*. 2007 Feb;28(2):390-7. PMID: 16950800
16. **Han J**, Colditz GA, Hunter DJ. Manganese superoxide dismutase polymorphism and risk of skin cancer. *Cancer Causes and Control*. 2007 Feb;18(1):79-89. PMID: 17186424
17. Zhang Y, Holford TR, Leaderer B, Boyle P, Zhu Y, Wang R, Zou K, Zhang B, Wise JP Sr, Qin Q, Kilfoy B, **Han J**, Zheng T. Ultraviolet radiation exposure and risk of non-Hodgkin lymphoma. *Am J Epidemiol*. 2007 Jun 1;165(11):1255-64. PMID: 17327216
18. Haiman CA, Hsu C, deBakker P, Frasco M, Sheng X, VanDenBerg D, Casagrande JT, Kolonel LN, LeMarchand L, Hankinson SE, **Han J**, Dunning AM, Pooley KA, Freedman ML, Hunter DJ, Wu AH, Stram DO, Henderson BE. Comprehensive association testing of common genetic variation in DNA repair pathway genes in relationship with breast cancer risk in multiple populations. *Hum Mol Genet*. 2008 Mar 15;17(6):825-34. PMID: 18056155
19. **Han J**, Kraft P, Nan H, Guo Q, Chen C, Qureshi A, Hankinson SE, Hu FB, Duffy DL, Zhao ZZ, Martin NG, Montgomery GW, Hayward NK, Thomas G, Hoover RN, Chanock S, Hunter DJ. A genome-wide association study identifies novel alleles associated with hair color and skin pigmentation. *PLoS Genetics*. 2008 May 16;4(5):e1000074. PMCID: PMC2367449. PMID: 18483556
20. Nan H, Qureshi AA, Hunter DJ, **Han J**. Interaction between p53 codon 72 polymorphism and melanocortin 1 receptor variants on suntan response and cutaneous melanoma risk. *Br J Dermatol*. 2008 Aug;159(2):314-21. PMCID: PMC2753198
21. Gu F, Qureshi AA, Kraft P, Guo Q, Hunter DJ, **Han J**. Interleukin and interleukin receptor gene polymorphisms and susceptibility to melanoma. *Melanoma Res*. 2008 Oct;18(5):330-5. PMCID: PMC2643877. PMID: 18781131
22. Nan H, Niu T, Hunter DJ, **Han J**. Missense polymorphisms in matrix metalloproteinase genes and skin cancer risk. *Cancer Epidemiol Biomarkers Prev*. 2008 Dec;17(12):3551-7. PMCID: PMC2664625. PMID: 19064570
23. Gao X, Simon KC, **Han J**, Schwarzschild MA, Ascherio A. Genetic determinants of hair color and Parkinson's disease risk. *Ann Neurol*. 2009 Jan;65(1):76-82. PMCID: PMC2639631. PMID: 19194882
24. He C, Tamimi RM, Hankinson SE, Hunter DJ, **Han J**. A prospective study of genetic polymorphism in MPO, antioxidant status, and breast cancer risk. *Breast Cancer Res Treat*. 2009 Feb;113(3):585-94. PMCID: PMC2664827. PMID: 18340529
25. **Han J**, Qureshi AA, Prescott J, Guo Q, Ye L, Hunter DJ, De Vivo I. A prospective study of telomere length and the risk of skin cancer. *J Invest Dermatol*. 2009 Feb;129(2):415-21. PMCID: PMC2632304. PMID: 18668136
26. Nan H, Qureshi AA, Hunter DJ, **Han J**. A functional SNP in the MDM2 promoter, pigmented phenotypes, and risk of skin cancer. *Cancer Causes and Control*. 2009 Mar;20(2):171-9. PMCID: PMC2631619. PMID: 18814047
27. **Han J**, Haiman C, Niu T, Guo Q, Cox DG, Willett WC, Hankinson SE, Hunter DJ. Genetic variation in DNA repair pathway genes and premenopausal breast cancer risk. *Breast Cancer Res Treat*. 2009 Jun;115(3):613-22. PMCID: PMC2693208. PMID: 18551366
28. Nan H, Qureshi AA, Hunter DJ, **Han J**. Genetic variants in FGFR2 and FGFR4 genes and skin cancer risk in the Nurses' Health Study. *BMC Cancer*. 2009 Jun 6;9:172. PMCID: PMC2699349. PMID: 19500394

29. Gu F, Qureshi AA, Kraft P, Guo Q, Hunter DJ, **Han J**. Polymorphisms in genes of DNA repair, cell growth, and oxidative stress and melanoma risk. *Br J Dermatol*. 2009 Jul;161(1):209-12. PMID: PMC2709292
30. Nan H, Kraft P, Hunter DJ, **Han J**. Genetic variants in pigmentation genes, pigmentary phenotypes, and risk of skin cancer. *Int J Cancer*. 2009 Aug 15;125(4):909-17. PMID: PMC2700213. PMID:19384953
31. Nan H, Kraft P, Qureshi A, Guo Q, Chen C, Hankinson SE, Hu FB, Thomas G, Hoover RN, Chanock S, Hunter DJ, **Han J**. Genome-wide association study of tanning phenotype in a population of European ancestry. *J Invest Dermatol*. 2009 Sep;129(9):2250-7. PMID: PMC2758927. PMID: 19340012
32. Gao X, Simon KC, **Han J**, Schwarzschild MA, Ascherio A. Family history of melanoma and Parkinson's disease risk. *Neurology*. 2009 Oct 20;73(16):1286-91. PMID: PMC2764417
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34. Qureshi AA, Nan H, Dyer M, **Han J**. Polymorphisms of FAS and FAS ligand genes and risk of skin cancer. *J Dermatol Sci*. 2010 Apr;58(1):78-80. PMID: PMC2920452. PMID: 20219325
35. Cassidy A, De Vivo I, Liu Y, **Han J**, Prescott, J, Hunter DJ, Rimm EB. Associations between diet, lifestyle factors and telomere length in women. *Am J Clin Nutr*. 2010 May;91(5):1273-80. PMID: PMC2854902. PMID: 20219960
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