

Curriculum Vitae

Date Prepared: February 8, 2024
 Name: Jiali Han
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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 Indianapolis
2013-	Founding Department Chair	Department of Epidemiology	Richard M. Fairbanks School of Public Health, Indiana University Indianapolis
2013-	Rachel Cecile Efroymsen Professor of Cancer Research		Melvin and Bren Simon Comprehensive Cancer Center, Indiana University Indianapolis

2014-	Adjunct Professor of Dermatology	Department of Dermatology	Indiana University School of Medicine
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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, Indianapolis, IN
2019-	Director	Epidemiology Consultation Core	Melvin and Bren Simon Cancer Center, Indiana University
2021-	Affiliated Faculty Member		Indiana University Center for Global Health
2021-2023	Affiliated Faculty Member	Department of Global Health	Richard M. Fairbanks School of Public Health, Indiana University Indianapolis

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	Brigham and Women's Hospital, Boston, MA
	<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>	
2012-2013	Clinical Investigation Committee for the Center for Clinical Investigation, Member	Brigham and Women's Hospital, Boston, MA
	<i>This Center is the major infrastructure and educational resource for clinical research at the Brigham & Women's Hospital. It also functions as the docking station for all Harvard Catalyst – The Harvard Clinical and Translational Science Center – activities at Brigham & Women's Hospital. This committee plays a major advisory role in how clinical research functions at Brigham & Women's Hospital and in the Harvard Catalyst Program.</i>	
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 Indianapolis (IUI)

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	IUI 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	IUI Artificial Intelligence Institute
2020-2022	Member, Board of Directors	Outrun the Sun Foundation, Indianapolis, IN
2020-2021	Member	IUI Public Access to Research Data Working Group
2021-	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 Indianapolis
2022	Search Committee, Member	The open rank position in the Department of Epidemiology, Richard M. Fairbanks School of Public Health, Indiana University Indianapolis
2020-2022	President Council	Outrun the Sun Foundation, Indianapolis, IN
2023	Member	Komen Tissue Bank Think Tank, Indianapolis, IN

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
2022	External Review for PhD program	Virginia Commonwealth University

International

2009-	Consortium on MC1R variants, skin cancer and phenotypic characteristics (M-SKIP) Advisory Committee, Member	European Institute of Oncology, Milan, Italy
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
2014-2020	Keratinocyte Carcinoma Consortium Steering Committee, Member	Yale School of Public Health
2017-	Interactional Consortium of Genome-Wide Association Data for Susceptibility to Cutaneous Squamous Cell Carcinoma, Co-Leader	Indiana University and Stanford University
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
2022	Big Ten Cancer Research Consortium Kenneth and Verna Mae Jessen Award	Review Committee Member

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</i>	Harvard T.H. Chan School of Public Health, Boston, MA

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.

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 th Annual Young Mentor Award	Harvard Medical School, Boston, MA
2012	Nominated for Research Leadership Award	Brigham and Women's Hospital, Boston, MA
2023	Named in the world's top 2% of Scientists List by Stanford 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

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) <i>Proposed to examine plasma biomarkers of oxidative stress and antioxidants and risk of breast cancer.</i>
2011-2013	Cancer and Endometriosis Mazzone Award, Dana Farber Cancer Institute Co-Investigator (PI, Stacey Missmer)

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.

- 2009-
2014
Molecular Signatures of Melanoma Histology and Progression
NIH/NCI R01CA137365
Co-Investigator (PI, Abrar Qureshi)
Proposed to identify a molecular signature for the histology and progression of melanoma.
- 2009-
2014
Prospective Study of Restless Leg Syndrome
NIH/NINDS R01NS062879
Co-Investigator (PI, Xiang Gao)
Proposed to evaluate both lifestyle and genetic risk factors for restless leg syndrome.
- 2010-
2014
Transdisciplinary Research in Cancer of the Lung (TRICL)
NIH/NCI U19 CA148127
Site Principal Investigator (PI, Christopher Amos)
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.
- 2014-
2015
Validation of melanoma diagnosis in Indiana Patient Network.
Merck / Regenstrief Collaboration
Regenstrief Institute / Merck 045373-00003B
Co-Investigator (PI, John Duke)
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.
- 2014-
2015
Mitochondrial DNA copy number and hepatocellular carcinoma in a Chinese Han population
International Development Fund (IDF), OVCR, IUPUI
Principal Investigator
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.
- 2014-
2015
Design and Biostatistics Program of the CTSI, Indiana University
Co-investigator (as committee member)
- 2011-
2015
One-carbon metabolism biomarker and lung cancer risk
NIH/NCI U01CA155340
Site Principal Investigator (PI, Paul Brennan)
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.
- 2013-
2015
Integrating Genetics of Gene Expression into Pathway Analysis for Melanoma GWAS
NIH/NCI R03CA167741
Principal Investigator

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.

2014-2016
Genome-Wide Gene-Caffeine Interactions on Risk of Skin Basal Cell Carcinoma
NIH/NCI R03CA188568
Principal Investigator

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.

2014-2019
Indiana University Melvin and Bren Simon Cancer Center Support Grant
NIH/NCI 2P30CA082709-17 (Loehrer)
Program Leader for Cancer Prevention and Control

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.

2017-2020
An integrative approach to identify causal epigenetic markers for breast cancer
NIH/NCI R01CA194030-03 (He)
Co-Investigator

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.

2018-2020
Integrating Genetics of Gene Expression into Pathway Analysis for Skin SCC GWAS
NIH/NCI 1R03CA219779 – 01A1 (Han)
Principal Investigator

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.

2018-2021
Vitamin D and Opioid Use: From Real-World Data to Clinical Practice
Indiana University Grand Challenge: Opioid Crisis (Li)
Co-Investigator

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

2020-2021
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)

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.

2017-2022	Precision Health Initiative-Fairbanks School of Public Health (Nan) Indiana University Grand Challenge Precision Health Research in Genetic Epidemiology Investigator <i>The objective of this proposal is to conduct molecular and genetic epidemiology research using EMR data and clinical databases.</i>
2020-2022	Integrative functional characterization of genetic loci for cutaneous basal cell carcinoma. 1R03CA245886– 01A1 (Han) Principal Investigator <i>Proposed to validate the findings from GWAS using wet lab experiments and in silico prediction.</i>
2024-2026	Mitochondrial DNA variation, whole genome sequencing, and development of type 2 diabetes among obese subjects - Innovation from Indiana Biobank Eli Lilly Company inaugural iLEAD research program Other significant contributor <i>This project is the first to assess the quality, completeness, and process of accessing and analyzing the genomic sequencing data and linked IU Health EMR data within the AnalytixIN. This inaugural project will help Lilly scientists' future research projects using AlalytixIN, either independently or collaborating with the IU Fairbanks School of Public Health (FSPH) team, to answer research questions in various disease areas. We aim to build up long-term collaboration between Lilly VEO and FSPH through this project.</i>

Pending Funding:

Multi-omic data analysis and high-dimensional risk prediction of cutaneous squamous cell carcinoma

NIH/NCI R01CA282302-01A1 (Li)

Co-Investigator

03/01/2024 – 02/28/2029

15% effort

(18%, 17% payline, an exception for funding was requested by the NCI PO)

Leveraging gene-by-gene and gene-by-environment interactions in understanding and predicting the risk of cutaneous squamous cell carcinoma

NIH/NCI R01CA292119 (Li)

Co-Investigator

12/01/2024 – 11/30/2029

15% effort

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

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	Erin Wei * MD student, Harvard Medical School	2010-2011 (MD)	Massachusetts Institute of Technology	BS	2009	Risk factors & UV exposure on multiple non-melanoma skin cancers NOTE: Student intern, one 4 th -year Harvard Medical School medical student taking a year off to do clinical research in the Doris Duke Fellowship Program	Associate Professor of Dermatology at UNMC/Nebraska Medicine, Co-Director of the Bullous Disease, Clinic Director of Clinical Trials, Director of Inpatient Dermatology Services
past	Hillary Frankel * MD student, Harvard Medical School	2010-2011 (MD)	Princeton	BS	2007	Physical activity and psoriasis NOTE: Student intern, one 4 th -year Harvard Medical School medical student who was awarded a year-long HMS Scholars in Medicine Research Fellowship	Clinician in Dermatology, Brigham & Women's Hospital
past	Xin Li 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	Assistant Professor, Fairbanks School of Public Health, Indiana University
past	Andrew Walls * MD Student, UMASS	2011-2012 (MD)	UMASS	BS	2011	Epidemiology of in-situ melanoma	Clinician 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	Khang Nguyen * Brigham & Womens Hospital	2011-2012 (MD)	Stanford University	BS	2011	Trend & risk factors for incident squamous cell carcinoma NOTE: Student intern, one 4 th -year Harvard Medical School medical student taking a year off to do clinical research in the Doris Duke Fellowship Program	Assistant Professor of Medicine, Department of Internal Medicine, Dell Medical School, The University of Texas at Austin
past	Juan Wang Brigham & Womens Hospital	2011-2013 (PhD)	Beijing Medical University	BS	2000	Health conditions according to hair color NOTE: visiting graduate student	
past	Li Ye Harvard University	2008 (PhD)	Tsinghua University	BS	2006	Telomere length & skin cancer risk NOTE: as rotation student	Associate Professor, Scripps Research Institute
past	Chunyan He 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	Genevieve Monsees 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	Margaret Du Harvard T.H. Chan School of Public Health	2009-2010 (ScD)	BS	BS	2007	Telomere length in the etiology of melanoma	Associate Professor, Memorial Sloan Kettering Cancer Center

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	Jing Xie Harvard T.H. Chan School of Public Health	2009-2010 (ScD)	Emory University	MPH	2008	Skin cancer and endometriosis	Senior Scientist, Pfizer
past	Salma Pothiwala 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	Shasha Meng 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	Dayong Si Brigham & Women's Hospital	2013 (PhD)	Beijing Medical University	BS	2000	Health conditions according to hair color NOTE: visiting research fellow	
past	Chia-Yen Chen 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	Genetic epidemiologist at Biogen
past	Fangyi Gu ScD 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 / 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	Keming Yang 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	Medical Resident, University of Pittsburg; Postdoc Fellow, Harvard T.H.Chan School of Public Health
past	Erika Biederman, PhD student, IUI School of Nursing	2016-2021	Indiana University	BSN in Nursing	2014	NOTE: minor advisor, committee member	Postdoc Fellow, Ohio State University
past	Huilin Tang, 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	Andrew Marley, PhD student, Fairbanks School of Public Health	2017-2020				NOTE: committee member	Senior Epidemiologist at Parexel; adjunct faculty in the College of Nursing and Allied Health Sciences at Howard University
past	Jing Xia, PhD student, Fairbanks School of Public Health	2017-2020				NOTE: committee member	Pharma in Maryland

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	Bojung Seo , PhD student, Fairbanks School of Public Health	2020-2023	Korea University	MPH in epidemiology	2016	Primary mentor: research projects on American College Sports Medicine American Fitness Index	Emory University School of Public Health, postdoc fellow
past	Casey Kar-Chan Choong , PhD student, Fairbanks School of Public Health	2022-2023	IUI, Fairbanks School of Public Health	MPH in epidemiology	2016	Primary mentor, thesis: Real-world evidence studies on the association of serum 25-hydroxyvitamin D levels with pain perception and opioid use Primary mentor and committee chair	Principal Scientist, Eli Lilly Company
past	Yan Tong , PhD student, Fairbanks School of Public Health	2022-2023	Purdue University	M.S., Applied Statistics	2007	Group Specific Dynamic Models of Time Varying Exposures on A Time-to-Event Outcome NOTE: committee member, minor advisor	Research Assistant Professor at Fairbanks School of Public Health (biostatistics and health data science)
past	Jiaying Guo , PhD student, Fairbanks School of Public Health	2022-2023	Georgia Institute of Technology	M.S. statistics, M.S. health system	2009	Bayesian adaptive clinical trial designs for phase I and II studies NOTE: committee member, minor advisor	PhD student at Fairbanks School of Public Health (biostatistics and health data science)
current	Theofanis Balanos , PhD student, Fairbanks School of Public Health	2022-	National And Kapodistrian University of Athens (NKUA), Athens, Greece	MSc in biostatistics	2018	K-sample nonparametric tests while adjusting for potential confounders via inverse probability weighting (and incorporation in the R package) NOTE: committee member, minor advisor	PhD student at Fairbanks School of Public Health (biostatistics and health data science)

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
current	Nitika Jain PhD student, Fairbanks School of Public Health	2022-	Richard M Fairbanks School of Public Health	MPH epidemi ology	2014	Can we save our youth: A comprehensive analysis of mortality trends, psychological behaviors, and evidence-based interventions targeting the youth with substance use disorder in the United States. Primary mentor and committee chair	Senior Consultant - research and evaluation at a private health consulting firm called CVP (Customer Value Partners)
current	Rachel Kenny, PhD student, Fairbanks School of Public Health	2022-	Richard M Fairbanks School of Public Health	MPH in Epidemi ology	2016	post-partum depression in UK biobank	Data and Safety Monitoring Board Coordinator, Department of Psychiatry, IUSOM
current	Bijal Patel, PhD student, Fairbanks School of Public Health	2023-	Richard M Fairbanks School of Public Health	MPH	2023	Physical activity in rehab settings and health disparity in physical activity Primary mentor and committee chair	PhD student at Fairbanks School of Public Health (epidemiology)
current	Shane Michael Hanley, PhD student, Fairbanks School of Public Health	2022-	Richard M Fairbanks School of Public Health	MPH	2017	Impact of Covid on obesity and diabetes management Primary mentor and committee chair	Pinnacle Solutions, Inc.
current	Ben Helm, PhD student, Fairbanks School of Public Health	2021-	Indiana University	MS	2012	Primary mentor and committee chair	Assistant Professor of Clinical Medical & Molecular Genetics, Indiana University

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
current	Kristen Wheeden DrPH student, Fairbanks School of Public Health	2022-	University of Maryland The George Washington University	Master Certification in Public Health, MBA	2017, 1996	National Institutes of Health, Rare Disease Clinical Research Network, DrPH in Global Public Health Leadership, Committee Chair	United Porphyrias Association (www.porphyrria.org) President
current	Melisa Cinbat , PhD in Nursing Science w/t Minor in Epidemiology 2025 IUI	2023-	Indiana University School of Nursing	MSHI, BSN	2020, 2019	Determining Nurse Feelings, Beliefs, and Attitudes about Health Information Exchange Use in an Acute Care Institution NOTE: committee member, minor advisor	PhD in Nursing Science w/t Minor in Epidemiology 2025 IUI
current	Isheka Orr , Ph.D. in Applied Earth Sciences, School of Science, Department of Earth Sciences School of Science, IUI	2023-	Environmental Science from Claflin University	BS	2019	research aims to better understand the human health risks associated with combined sewer overflow (CSO) events in urban waterways in Indianapolis, minor advisor in global health	Ph.D. in Applied Earth Sciences with a minor in Global Health
current	Seyma Kurk , Ph.D. in Economics. Department of Economics, School of Liberal Arts	2023-	The University of Iowa	MA in Economics	2016	New Estimators for Empirical Causal Analysis Based on Polychotomous Ordinal Regression	Ph.D. in economics with a minor in epidemiology

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

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	Wen-Qing Li * Brigham & Women's Hospital	2010-2013	MD, PhD	2009	Peking University	Psoriasis related co-morbidities & skin cancer risk factors. NOTE: several high profile publications	
past	Fengju Song 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.	Investigator, Director of Department of Epidemiology and Biostatistics, Tianjin Medical University Cancer Institute and Hospital, Tianjin, China
past	Geyu Liang 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 / 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	Marina Kvaskoff * 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	Laura Winterfield * 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	Ruth Ann Vleugels * 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	Patrick Dominique * Brigham & Women's Hospital	2009-2010	MD	2008		Psoriasis outcome validation in cohorts and cohort analysis of depression and psoriasis	Dermatologist, private practices in California
past	Sandeep Kumar * 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 / 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	Mingfeng Zhang 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 nd 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	Wen Lin 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

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	Min Chen 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	Shaowei Wu* Brigham & Women's Hospital	2012-2013	PhD	2011	Peking University, China	Skin cancer epidemiology	Investigator, Peking University, School of Public Health, China
past	Hongji Dai 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	Wenting Wu 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	Yuan Lin 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 / 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	Xin Li 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	Former Assistant Professor, Fairbanks School of Public Health.

Report of Local Teaching and Training

Teaching of Students in Courses

Harvard T.H. Chan School of Public Health

2005-10	Molecular Biology for Epidemiologists 30 Graduate Students	Guest Lecturer 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 15 Graduate Students	Guest Lecturer 2 hours/year
2009	Genetic Epidemiology 14 Graduate Students	Co-developer and co-instructor 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 16 Graduate Students	Faculty Advisor 6 hours/year

Indiana University, Richard M. Fairbanks School of Public Health, IUI

2015-2019	Grant Writing	Course developer and instructor 3 credit hours
2016	Chronic Disease Epidemiology	Guest lecturer, one session
2017-	Doctoral Seminar	Guest lecturer, one session
2019-2023	Applied Molecular Epidemiology of Cancer	Course developer and instructor 3 credit hours
2020-2023	Overview of Precision Health	Course developer and instructor 3 credit hours
2020	Epidemiology in Global Health	Course Co-developer 3 credit hours
2023-	Introduction to Public Health (U)	Course Instructor 3 credit hours
2024-	Advanced Epidemiology, IU Online program of scale	Course developer, studio recording 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> Channing Seminar Series, Channing Laboratory, Brigham and Women's Hospital	Seminar
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2007	<i>“Genetic Susceptibility to Skin Cancer”</i> Harvard Medical School/Partners Healthcare Center for Genetics and Genomics	Seminar
2008	<i>“Exploring Gene-Environment Interactions in Skin Cancer”</i> Department of Dermatology, Brigham and Women’s Hospital	Seminar
2009	<i>“Genetic Association Studies of Cancer”</i> Harvard Medical School Chinese Biomedical Student Organization	Seminar
2009	<i>“Prospective Study of Telomere Length and Skin Cancer”</i> Department of Dermatology, Brigham and Women’s Hospital	Seminar
2009	<i>“Genetic Association Studies in Unrelated Subjects”</i> Department of Dermatology, Brigham and Women’s Hospital	Seminar
2009	<i>“Sun and Skin Cancer at Christmastime in Boston”</i> Channing Laboratory, Brigham and Women’s Hospital	Seminar
2010	<i>“Risk for multiple non-melanoma skin cancers among US women and men”</i> Clinical Research Program, Department of Dermatology, Brigham and Women’s Hospital	Seminar
2010	<i>“Correlating phenotypic risk factors with molecular signatures in melanoma”</i> Harvard Skin SPORE/Dana Farber Harvard Cancer Center Melanoma and Cutaneous Oncology Program Retreat	Seminar
2011	<i>“Epidemiological Link between Parkinson’s Disease and Melanoma”</i> Department of Dermatology, Brigham and Women’s Hospital	Seminar
2011	<i>“Molecular epidemiology of pigmentation, mole and melanoma”</i> Brigham and Women’s Hospital/Dana Farber Cancer Institute Melanoma Lecture Series	Seminar
2012	<i>“Expression profile of melanoma tissue blocks”</i> Harvard Skin SPORE Executive Committee Meeting	Seminar
2012	<i>“Overview of clinical research”</i> Department of Dermatology, Brigham and Women’s Hospital	Seminar
2014	<i>“Molecular epidemiology of pigmentation, mole and melanoma”</i> Department of Dermatology, Indiana University School of Medicine	Grand Round
2014	<i>“Molecular epidemiology of pigmentation, mole and melanoma”</i> Cancer Prevention & Control Seminar Series, Simon Cancer Center, Indiana University	Seminar
2014	<i>“Melanoma: from molecular epidemiology to network medicine”</i> Simon Cancer Center, Indiana University School of Medicine	Grand Round
2014	<i>“Melanoma: from molecular epidemiology to network medicine”</i> Clinical Pharmacology Seminar Series, Indiana University School of Medicine	Seminar
2019	<i>“Melanoma: from molecular epidemiology to network medicine”</i> Center for Computational Biology and Bioinformatics, Indiana University School of Medicine	Seminar
2020	<i>“Addictive sun-seeking behaviors”</i> First Friday Seminar for Alumni (IU Alumni Association and FSPH)	Seminar
2022	<i>“American Fitness Index”</i> First Friday Seminar for Alumni (IU Alumni Association and FSPH)	Seminar

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

Regional

2003	<i>“The XRCC1 Gene, Breast Cancer, and Skin Cancer”</i> Boston DNA Repair and Mutagenesis Seminar Series, Massachusetts Institute of Technology	Seminar
2009	<i>“Telomere Length and Skin Cancer Risk”</i> Center for Environmental Health Sciences, Massachusetts Institute of Technology	Seminar
2012	<i>“Molecular Epidemiology of Pigmentation, Mole and Melanoma”</i> Department of Dermatology, Boston University	Seminar
2014	<i>“The Future of Implementation Science”</i> Behavioral Cooperative Oncology Group Fall Conference Indiana University, School of Nursing	Co-presenter and Panelist
2015	<i>“Melanoma: from epidemiology to multidisciplinary research and network medicine”</i> Department of Medicinal Chemistry and Molecular Pharmacology, College of Pharmacy, Purdue University	Seminar
2018	<i>“Melanoma: from epidemiology to multidisciplinary research and network medicine”</i> Department of Epidemiology and Biostatistics, Indiana University, Bloomington	Seminar

National

2004	<i>“Genetic Polymorphism in DNA Repair Genes, Sunlight Exposure, and Skin Cancer Risk”</i> The American Association for Cancer Research 95 th Annual Conference, Orlando, FL	Mini-symposium
2007	<i>“Genetic Susceptibility to Skin Cancer”</i> Cancer Epidemiology Seminar Series, School of Public Health, The University of North Carolina at Chapel Hill	Seminar
2007	<i>“Genetic Variation in Base Excision Repair Genes in Relation to Skin Cancer Risk”</i> The Environmental Mutagen Society 38 th Annual Meeting, Atlanta, Georgia	Symposium
2008	<i>“Genetic Predisposition to Skin Cancer”</i> Program on Genomics and Nutrition, the University of California at Los Angeles	Seminar
2008	<i>“Molecular Epidemiology of Skin Cancer”</i> Sylvester Comprehensive Cancer Center, Miller School of Medicine, University of Miami, Florida	Seminar
2009	<i>“Molecular Epidemiology of Skin Cancer”</i> Ingram Cancer Center, Vanderbilt University, Nashville, Tennessee	Seminar
2010	<i>“Risk for multiple non-melanoma skin cancers among US women and men”</i> The American DermatoEpidemiology Network (ADEN) Conference, Atlanta, Georgia	Symposium
2010	<i>“Risk for multiple non-melanoma skin cancers among US women and men”</i>	Symposium

	Research in Cutaneous Surgery Symposium, the Society for Investigative Dermatology (SID) Annual Meeting, Atlanta, Georgia	
2011	<i>“Cohort findings in genome-wide association study era”</i> The American DermatoEpidemiology Network (ADEN) Conference, Phoenix, Arizona	Symposium
2011	<i>“Updates on Genome-wide Association Studies”</i> National Skin Cancer SPORE Retreat, Weston, Massachusetts	Seminar
2012	<i>“Pre-diagnostic plasma 25-hydroxyvitamin D and risk of non-melanoma skin cancer in women.”</i> Research in Cutaneous Surgery Symposium, the Society for Investigative Dermatology (SID) Annual Meeting, Raleigh, North Carolina	Symposium
2013	<i>“Genetic epidemiology of pigmentation, mole and melanoma”</i> Richard M. Fairbanks School of Public Health. Indiana University. Indianapolis, IN	Seminar
2015	<i>“Melanoma: from epidemiology to network medicine”</i> Department of Public Health, University of Chicago, Illinois	Seminar
2015	<i>“Melanoma: from epidemiology to network medicine”</i> Department of Preventive Medicine, Northwestern University, Chicago, Illinois	Seminar
2016	<i>Skin Cancer: From Epidemiology to Multidisciplinary Research & Network Medicine</i> Hermann Pinkus Memorial Basic Science Course, The American Society of Dermatopathology 53 rd Annual Meeting. Chicago, Illinois	Seminar
2017	<i>“Melanoma: From Molecular Epidemiology to Network Medicine”</i> 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	<i>“Melanoma: From Molecular Epidemiology to Network Medicine”</i> Melanoma Lecture Series, Dana Farber Cancer Institute, Boston, MA	Lecturer
2018	<i>“Diet, Genetics and Skin Cancer”</i> 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
2020	<i>“Melanoma: from molecular epidemiology to network medicine”</i> Warren Alpert Medical School, Brown University Visiting Professor, Brown Dermatology Research Lecture Series	Lecture
2023	<i>“Skin cancer: from molecular epidemiology to multidisciplinary research”</i> College of Public Health, University of Nebraska Medical Center at Omaha	Grand Round

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 rd 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 th 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>	Seminar

2014	Southeast University, Nanjing, China "Melanoma: from epidemiology to multidisciplinary research and network medicine"	Seminar
2014	Tianjin Medical University Cancer Institute and Hospital, Tianjin, China Zhejiang Hospital, Hangzhou, Zhejiang, China "Big data: from epidemiology to network medicine"	Symposium
2015	School of Public Health, Nanjing Medical University, Nanjing, China "Big data: from epidemiology to network medicine"	Seminar
2018	School of Public Health, Nanjing Medical University, Nanjing, China "Examples of research ideas in skin cancer: genes, diet and drug use – beyond the sun"	Seminar
2022	Department of Dermatology, The University of British Columbia, Vancouver, Canada "Skin cancer: from surface to deep dive"	Seminar
2023	6th Africa International Biotechnology and Biomedical Conference, Naivasha, Kenya "Multidisciplinary Research"	Keynote Speaker
2023	6th Africa International Biotechnology and Biomedical Conference, Naivasha, Kenya "Cancer Screening and Prevention"	Workshop

Report of Scholarship

Selected Impactful Publications (from the full list below)

- **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.
- Schernhammer ES, Razavi P, Li TY, Qureshi AA, **Han J**. Rotating night shifts and risk of skin cancer in the Nurses' Health Study. *J Natl Cancer Inst*. 2011 Apr 6; 103(7): 602-6.
- Nan H, Du M, De Vivo I, Manson JE, Liu S, McTiernan A, Curb JD, Lessin L, Bonner MR, Guo Q, Qureshi AA, Hunter DJ, **Han J**. Shorter telomeres associate with a reduced risk of melanoma development. *Cancer Res*. 2011;71:6758-63.
- Zhang M, Qureshi AA, Geller AC, Frazier L, Hunter DJ, **Han J**. Use of tanning beds and incidence of skin cancer. *J Clin Oncol*. 2012 May 10;30(14):1588-93. *An invited editorial accompanying the article (1571-73)*.
- Song F, Qureshi AA, **Han J**. Increased caffeine intake is associated with reduced risk of basal cell carcinoma of the skin. *Cancer Res*. 2012 Jul 1;72(13):3282-9.
- Shoag J, Haq R, Zhang M, Liu L, Rowe GC, Jiang A, Koulis N, Farrel C, Amos CI, Wei Q, Lee JE, Zhang J, Kupper TS, Qureshi AA, Cui R, **Han J***, Fisher DE*, Arany Z* (*co-senior

- authors). PGC-1 coactivators regulate MITF and the tanning response. Mol Cell. 2013 Jan 10;49(1):145-57.
- Song F, Qureshi AA, Giovannucci E, Fuchs C, Chen W, Stampfer MJ, **Han J**. Non-melanoma skin cancer and risk of second primary cancer. PLoS Med. 2013;10(4):e1001433.
 - Bao Y, **Han J**, Hu FB, Giovannucci EL, Stampfer MJ, Willett WC, Fuchs CS. Association of nut consumption with total and cause-specific mortality. N Engl J Med. 2013 Nov 21; 369 (21): 2001-11.
 - Li W, Qureshi AA, Ma J, Goldstein AM, Giovannucci E, Stampfer MJ, **Han J**. Personal history of prostate cancer and increased risk of incident melanoma in the United States. J Clin Oncol. 2013 Dec 10;31(35):4394-9. PMID: 24190118. Editorial on ASCO Post. Mar 15, 2014. Volume 5, Issue 5, Melanoma and Prostate Cancer: Two Sides of One Coin?
 - Li W, Qureshi AA, Robinson K, **Han J**. Sildenafil use and increased risk of incident melanoma in US men: a prospective cohort study. JAMA Intern Med. 2014 Jun;174(6):964-70. PMID: 24710960 An invited editorial accompanied the article. 2014 Jun;174(6):970-1.
 - Zhang M, Zhang X, Qureshi AA, Eliassen AH, Hankinson SE, **Han J**. Association between cutaneous nevi and breast cancer in the Nurses' Health Study: a prospective cohort. PLoS Med. 2014 Jun 10;11(6):e1001659. An invited editorial accompanied the article (e1001661).
 - Wu S, **Han J**, Feskanich D, Cho E, Stampfer MJ, Willett WC, Qureshi AA. Citrus Consumption and Risk of Cutaneous Malignant Melanoma. J Clin Oncol. 2015 2015 Aug 10;33(23):2500-8. An invited editorial accompanied the article. 2015 Aug 10;33(23):2487-8.
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Reviews

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Letters

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Jiali Han

A handwritten signature in black ink, appearing to read 'Jiali Han', with a long horizontal flourish extending to the right.

Jan 23, 2024