

**CURRICULUM VITAE**

**Simin Liu, MD, ScD**

**Professor of Epidemiology**

**Brown University School of Public Health**

**Professor of Medicine and Surgery**

**The Alpert School of Medicine**

**Director, Center for Global Cardiometabolic Health (CGCH)**

**Brown University**

**Providence, RI Providence RI 02912**

## Overview

- Research Grants: > \$20 millions raised in funding as principal investigator
- Scholarly manuscripts published: >300 peer-reviewed original reports, and ~100 proceedings, editorials, chapters, reviews, and one book
- Teaching: six courses as developer and primary instructor/director at Harvard University, University of California, Los Angeles (UCLA), and Brown University; trainees/Mentees supervised directly: >100
- Service and Outreach: > 60 committees and events, and as an associate editor for several leading journals including the No. 1 ranking American Journal of Clinical Nutrition (AJCN) in nutrition
- Awards and Honors: Several adjunct and visiting professorships at leading Institutions around the world; >30 honors and awards, including 2012 Elected member, American Society of Clinical Investigation (ASCI, The ASCI is an honorific society of physician-scientists who primarily conduct basic laboratory and/or translational work to advance clinical medicine) and American Epidemiological Society (AES, The AES is an honorific society of epidemiologists and public health scientists known as "diseases detective")
- Invited talks given: >150 seminars and conference presentations worldwide
- 2015 Google Scholar List of Scientists with H-index > 100
- Currently H-index=126 <https://scholar.google.com/citations?user=suBaIE4AAAAJ&hl=en>

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**PERSONAL INFORMATION**

**NAME:** Simin Liu

**OFFICE ADDRESS:** Department of Epidemiology  
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121 South Main Street  
Providence RI 02912

**EMAIL ADDRESS:** Simin\_liu@brown.edu

**TELEPHONE:** 401-863-5217

**FAX:** 401-863-3713

**EDUCATION:**

1991 MD Jinan University School of Medicine (Clinical Medicine)  
Guangzhou, China

1993 MS State University of New York at Albany (Epidemiology)  
Albany, NY, USA

1998 MPH Harvard University (Quantitative Method)  
Boston, MA, USA

1998 ScD Harvard University (Double majors in Epidemiology and Nutrition,  
minor in Biostatistics)  
Boston, MA, USA

2014 MA Masters of Arts ad eundem (honorary)\*  
Brown University, Providence, RI, USA

**POSTDOCTORAL AND PROFESSIONAL TRAINING:**

1990-1991 Clinical Intern, Overseas' Chinese Hospital and first affiliate of Jinan University  
Medical School, Guangdong

1991-1995 Research Associate, Bureaus of Communicable Disease Control and Cancer  
Epidemiology, New York State Department of Health, Albany, NY (Advisors: Dr.  
Dale Morse and Dr. Phil Nasca); 1993-1995 Epidemic Intelligence Service (EIS)  
Fellow in Epidemiology, Preventive Medicine/Public Health, Division of Nutrition  
and Epidemiology Program Office, Centers for Disease Control and Prevention  
(CDC), Atlanta, GA (Supervisors: Drs. Ward Cates, Mary Serdula, and Tim  
Byers)

1996-1998 Teaching Fellow, Departments of Nutrition and Epidemiology, Harvard School of  
Public Health, Boston, MA (Advisor: Dr. Walter Willett); 1998 Visiting  
Scholar/Fellowship, Karolinska Institute, Stockholm, Sweden

**OTHER TRAINING COURSES:**

1998-2001 HT090 Cardiovascular Pathophysiology, GN701 Principles of Genetics, HT350  
Pharmacology and Clinical Therapeutics, Harvard Medical School, Boston, MA

- 2000- Continuing Medical Education (C.M.E) Credits in Cardiovascular Medicine, Diabetes and Metabolism
- 2010 Training for Medical Institutional Review Board (IRB) Member, UCLA
- 2014 Transformative Conversations: How to Discuss What Matters Most to Us. Center for learning & Professional Development, Brown University
- 2014 Faculty Leadership Development, Office of the Vice President for Academic Development, Diversity and Inclusion, Brown University
- 2016 Training for members on the Tenure, Promotion, and Appointment Committee (TPAC), Dean of Faculty, Brown University
- 2016 American Heart Association (AHA) Research Leaders Academy, San Antonio, TX

### **POSITION/APPOINTMENTS:**

#### **Academic Appointments**

- 1998-2000 Instructor in Medicine, Department of Medicine, Harvard Medical School, Boston, MA
- 2001-2004 Assistant Professor of Medicine, Department of Medicine, Harvard Medical School, Boston, MA
- 2005 Associate Professor of Medicine, Department of Medicine, Harvard Medical School; Associate Professor of Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2001-2004 Assistant Professor of Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2005-2008 Adjunct Professor of Epidemiology, Department of Epidemiology, Harvard School of Public Health, Boston, MA
- 2005-2013 Professor of Epidemiology and Medicine (Tenured) and Director, Program on Genomics and Nutrition, Fielding School of Public Health; Department of Medicine (joint appointment), Geffen School of Medicine, UCLA, CA
- 2006-2008 Co-Director, UCLA-CA State of Health Service Training Program for Public Health Laboratory Directors; Faculty Director, MPH/MD Program, Fielding School of Public Health, UCLA, CA
- 2009-2013 Founding Director, UCLA Burroughs-Wellcome Fund Inter-School Training Program in Metabolic Diseases (BWF-IT-MD); Founding Director, UCLA Center for Metabolic Disease Prevention
- 2011-2015 Professor, Departments of Medicine and Obstetrics and Gynecology, UCLA David Geffen School of Medicine, CA
- 2006-2009 Visiting Professor, Sun Yat-Sen University, Guangzhou, China

- 2006 Visiting Professor, Institute of Nutritional Science, Chinese Academy of Sciences, Shanghai, China
- 2012 Guest Professor, Centro de Pesquisa Clínica e Epidemiológica, University De Sao Paulo (USP), Sao Paulo, Brazil
- 2013- Professor, Department of Epidemiology (with tenure), Brown University, Providence, RI
- 2013- Professor of Medicine (Endocrinology), Alpert Medical School and Rhode Island Hospital, Brown University, Providence, RI
- 2013- Director, Center for Global Cardiometabolic Health (CGCH), Brown University, Providence RI
- 2014 Guest Professor (Honorary), Zhejiang University Medical School, Hangzhou, China
- 2014- Member, Center for Latin American and Caribbean Studies (CLACS), Brown University
- 2015- Director, Brown Brazil Initiative in Global Health (BIG-Health), Brown University
- 2015- Co-director, China Health Initiative, China Initiative, Watson Institute of International and Public Affairs, Brown University, RI
- 2015- Core Advisor, Master of Public Health (MPH) Program, Brown University
- 2016- Adjunct Professor (Honorary), School of Public Health, Harbin Medical University, Harbin, China
- 2016- Adjunct Clinical Professor, Prince of Wales Hospital and Chinese University of HongKong (CUHK), HongKong, China
- 2016- Adjunct Professor, Department of Epidemiology, Harvard CHAN School of Public Health, Boston, MA
- 2016- Member, Brown China Center for Environmental Health, Brown University, Providence, RI
- 2018- Professor of Surgery, Alpert Medical School, Brown University, Providence RI

### **Hospital Appointments:**

- 1998-2005 Associate Epidemiologist, Brigham and Women's Hospital, Boston, MA
- 2000-2005 Director of Nutrition Research, Division of Preventive Medicine, Brigham and Women's Hospital, Boston, MA
- 2005 Member, Executive Committee, Division of Preventive Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA
- 2005-2008 Full Member, Dana-Farber/Harvard Cancer Center, Boston, MA

- 2005-2012 Associate Director, Center for Human Nutrition, Departments of Medicine and Ob/Gyn, UCLA Medical Center; Full Member, Jonsson Comprehensive Cancer Center and UCLA Clinical Research Center/CTSI, CA
- 2013- Member, Department of Medicine (Endocrinology), Rhode Island Hospital, Providence, RI
- 2014- Affiliated Clinical Investigator, Department of Medicine (Cardiology), Veterans Administration (VA) Health System of Rhode Island, RI
- 2015- Member, Division of Endocrinology, Rhode Island Hospital, Lifespan Health System
- 2015- Visiting Professor of Medicine (Endocrinology), The First Affiliated Hospital and Sun Yat-Sen University, Guangzhou, China
- 2015- Visiting Professor of Medicine and Chief Consultant (Endocrinology), Guangdong General Hospital & Guangdong Academy of Medical Sciences, Guangzhou, China
- 2016- Adjunct Clinical Professor (Honorary), HongKong Institute of Diabetes and Obesity, Prince of Wales Hospital, Shatin, HongKong
- 2017- Adjunct Professor, Institute of Environmental Sciences and Occupational Health, Chinese CDC, Beijing, China
- 2018- Faculty Member, Cardiovascular Research Institute (CVI) and Division of Cardiathoracic Surgery, Lifespan Health System, Providence, RI
- 2018- Adjunct Professor (Honorary), National Center for Cardiovascular Diseases, Fuwai Hospital Chinese Academy of Medical Sciences, Beijing, China

## **MAJOR COMMITTEE ASSIGNMENTS:**

### **Federal Agencies**

- 1995-2004 Member, Expert Review Panel, Breast Cancer Prevention Program Projects, National Center for Chronic Disease Prevention and Health Promotion (NCCDPH), CDC, Atlanta, GA; Member, The Special Emphasis Panel, RFA-ES-02-009 Centers for Population Health and Health Disparities; The Special Emphasis Panel, ZRG1 SNEM-05; Diabetes, Endocrinology, and Metabolic Diseases B Sub-Committee; Epidemiology of Diabetes, Obesity, Nutrition, and Kidney Diseases Study Section (KNOD), NIH, Bethesda, MD
- 2004-2008 Permanent member, Diabetes, Endocrinology, and Metabolic Diseases (Committee B), National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), NIH, Bethesda, MD
- 2009-2012 Member, Scientific Advisory Board (SAB), Global Health Initiative, National Heart Lung and Blood Institute (NHLBI), NIH, Bethesda, MD
- 2010-2013 Member, Health Disparities and Equity Promotion Study Section (HDEP); Clinical and Integrative Diabetes and Obesity (CIDO); Special Emphasis Panel (SEP)

Biological and Genetic Research and Clinical and Translational Related Health Disparities Research, NIH, Bethesda, MD; Member, Cardiovascular and Sleep Epidemiology Study (CASE) Section, Population Sciences and Epidemiology Integrated Review Group, NIH, Bethesda MD

2013-2018 Chair, Diet, Obesity, and Weight Change in Pregnancy Special Emphasis Panel, Eunice Kennedy Shriver National Institute of Child Health & Human Development (NICHD), NIH, Bethesda MD; Member, Special Emphasis Panel, Natural Experiments of the Impact of Population-targeted Health Policies to Prevent Diabetes and its Complications on the behalf of the National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), Division of Diabetes Translation (DDT). Center of Disease Control and Prevention (CDC); Member, National Institute of Health/NIGMS Study Section Pharmacogenomics Network Program Committee, NIH; Ad Hoc Member, Integrative Nutrition and Metabolic Processes (INMP) Study Section, NIH; the Cancer, Heart, and Sleep Epidemiology Panel (CHSA) Study Section; the Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section; Ad Hoc Member, Diabetes, Endocrinology, and Metabolic Diseases (Committee B), National Institute of Diabetes, Digestive and Kidney Diseases (NIDDK), NIH, Bethesda, MD; Ad Hoc Member, Clinical and Integrative Diabetes and Obesity (CIDO) Study Section, CSR, NIH

#### **Academia/Universities**

2001-2005 Member, Metabolic Diseases, Boston Obesity Nutrition Research Center (BONRC); Member and Chair, Doctoral Committee, Harvard School of Public Health, Boston, MA

2006-2009 Member, Medical Leadership College Advisory Board, UCLA, Los Angeles, CA; Member, UCLA Faculty Senate's Committee for Undergraduate Scholarships, Awards, and Prizes, Los Angeles, CA

2006-2012 Member and Chair, Doctoral Committee (Epidemiology), Fielding School of Public Health, UCLA, Los Angeles, CA

2006-2012 Member and Chair, Laboratory and Equipment Committee, Fielding School of Public Health, UCLA, Los Angeles, CA

2010-2011 Member, Executive Committee, UCLA Clinical and Translational Science Institute (CTSI); Member, Medical Institutional Review Board (MIRB1)

2011-2012 Chair, Admission Committee & Director, Graduate Program in Epidemiology, Department of Epidemiology, UCLA, Los Angeles, CA

2012-2013 Member, Campuswide Research Informatics Strategies Planning Committee, UCLA, Los Angeles, CA

2013- Member, Doctoral Admissions Committee; Doctoral Exam Committee; MPH Admission Committee, School of Public Health, Brown University, Providence, RI

2013-2014 Member, School of Public Health Strategic Planning Committee, Brown University, Providence, RI



- 2014-2016 Member, Public Health Senior Faculty Appointments Committee (PHFA), Brown University, Providence, RI
- 2014-2015 Chair, Committee on Cardiometabolic Health, Department of Epidemiology, Brown University, Providence, RI
- 2014-2017 Member, Committee on Medical Faculty Appointment (CMFA), Warren Alpert Medical School of Brown University, Providence, RI
- 2014- Chair, Ad hoc Faculty Promotion and Search Committees, Department of Epidemiology, Brown University, Providence, RI
- 2014- Member, Curriculum Committee, Admissions Committee, Department of Epidemiology, Brown University, Providence, RI
- 2016 External Reviewer, the John Hopkins University-University of Maryland Diabetes Research Center, MD
- 2016-2019 Member, Committee on Tenure, Promotion, Appointment (TPAC), Brown University, Providence, RI

#### **International Agencies/Non-Government Organizations**

- 2000-2005 Member, Committee on Glycemic Index and Health, Food and Agriculture Organization (FAO) of the United Nations and Danone Vitapole, Bandol, France; Chair, Symposium on Carbohydrates and Glycemic Load in Diabetes Risk, 62nd Scientific Sessions of the American Diabetes Association (ADA), San Francisco, CA; Chair, Symposium on Nutrigenomics, 44th Annual Scientific Meeting of the American College of Nutrition (ACN), Nashville, TN; Board Member, Scientific Advisory Board, Whole Grain Council, Boston, MA; Co-Chair, Endocrine Council, American College of Nutrition (ACN), Nashville, TN; Member, Committee on Statistical Methods, NIH/National Cancer Institute Cohort Consortium on Breast and Prostate Cancers; Co-Chair, Chronic Disease in Developing Country, 18th International Congress of Nutrition (ICN), Durban, South Africa; Chair, Scientific Advisory Board, Whole Grains Health: A Global Summit, Minneapolis, MN; Co-Chair, Symposium on Nutrition and Chronic Disease in China, 18th International Congress of the Union of Nutrition Scientists, Durban, South Africa
- 2006-2010 Chair, Symposium on Diabetes and Cardiovascular Disease- Mechanisms and New Agents. 86th American Heart Association (AHA) Annual Scientific Sessions, Chicago, IL; Chair, Symposium on Metabolic Syndrome, American College of Nutrition (ACN) 47th Annual Meeting, Reno, NV; Member, Expert Committee on FAO/WHO Scientific Update on Carbohydrates in Human Nutrition, Geneva, Switzerland; Member, Scientific Advisory Board, the European Union HEALTHGRAIN Program
- Member, Scientific Steering Committee, International Heart Forum, Beijing, China; Member/Reviewer, Scientific Review Committee, Qatar Foundation, Doha, Qatar; Co-Chair, Genetic Focus Group and Member, Ancillary Study Committee, Women's Health Initiative (WHI); Member, Scientific Review Committee, Canada Foundation for Innovation

- 2009-2013 Member, Steering Committee, Genome-Wide Association Study-Treatment Responses in the WHI (GARNET-WHI), NIH
- 2010 Chair, Symposium on Sex-hormones, Exogenous Endocrine Disruptors and Diabetes Risk, 70th ADA scientific meeting, Orlando, FL
- 2011-2016 External Evaluator, Integrated Research on Genomics and Pathophysiology of the Metabolic Syndrome and the Diseases arising from it. META2011 translation five research funding agencies from Canada, Québec, France, Germany and Spain, Agence Nationale de la Recherche, France; Chair, Type 2 Diabetes Genetics — Genomes and Genes, 71st ADA scientific meeting, San Diego, CA; Reviewer, Research Fellowship Program, Medical Research Council (MRC), United Kingdom (UK); Member and Chair, American Heart Association's (AHA) Genomic & Translational Biology and Observational Epidemiology (GTOE) Peer Review Study Group, Dallas, TX; Member, Scientific Advisory Board for the 2nd International Symposium on Nutrition and Health, The Nutrition Society of China, Guangzhou, China; Member, WHO/EMRO – DCPN Collaboration on Non-Communicable Disease Priorities in the EMRO Region; Committee member, Frontiers in Nutrition Science Workshop, Zhejiang University and The Nutrition Society of China, Hangzhou, China; Committee member, Glycemic Index, Glycemic Load, Glycemic Response: An International Scientific Consensus Summit. Stressa, Italy.
- 2011-2017 Member, Statistics Committee, American Heart Association
- 2014-2017 Co-Chair and Chair, AHA's Genomics, Translational Biology Epidemiology & Observational Epidemiology – Clinical Science Peer Review Committee (GTOE – CL), Dallas, TX
- 2014 -2018 EPI Council Statistics Committee Liaison, Diabetes Committee of the Lifestyle and Cardiometabolic Health Council, AHA
- 2016- Advisory Board Member, North America Chinese Society for Nutrition (NACSN)
- 2016- Member, NHLBI Trans-Omics for Precision Medicine (TOPMed) Working Groups: Anthropometry – Structural Variation, Adiposity, Atherosclerosis, Diabetes, and Reproductive Health, NIH
- 2016- Member, Data and Safety Monitoring Board (DSMB), Trial of Metformin among patients with pulmonary hypertension, Massachusetts General Hospital, Boston, MA
- 2017- Member, Data and Safety Monitoring Board (DSMB), the Intervention for High normal or Borderline-elevated Blood Pressure in Adults with Type 2 Diabetes (IPAD) Trial, Guangzhou, China
- 2018- Member, Data and Safety Monitoring Board (DSMB), EX9536-4388 SELECT-Trial (18-CS-IKES-8); Novo Nordisk, Denmark

**PROFESSIONAL SOCIETY INVOLVEMENT:**

1994-2012	Society for Epidemiologic Research
1998-	American Heart Association (AHA Councils on Epidemiology, Genomics and Precision Medicine, and Nutrition) –Elected Fellow (FAHA) in 2002
1998-2012	American Diabetes Association (ADA), Endocrine Society
2002-2012	American Society of Human Genetics
2003-	American Association for the Advancement of Science (AAAS)
2005-	American Society of Clinical Nutrition (ASN)
2010-	Lifetime Member, Epidemic Intelligence Service Alumni (EISA), CDC Foundation
2012-	Elected Member, American Society of Clinical Investigation (ASCI)
2012-	Elected Member, American Epidemiological Society (AES)
2013-	Member, Chinese American Academy of Cardiology (CAAC)
2016-	Member, International Society for the Development of Research on Magnesium

### **SERVICE RELATED TO PROFESSIONAL WORK (Selected):**

2000-	Serving as a consultant to many academic centers/Universities, government agencies, NGOs, and industries (as external examiner for promotion or tenure cases) including John Hopkins University, Stanford University, Fred Hutchison Cancer Center, Harvard University, Tufts University, Boston University, Vanderbilt University, University of Massachusetts, University of Alabama at Birmingham, Karolinska Institute, University of Toronto, CDC, NIH, WHO, Chinese Academy of Sciences, Chinese CDC, Sun Yat-sen University, Guangdong Academy of Medical Sciences, General Mills, The Linus Pauling Institute, Barilla Inc, Novo Nordisk Inc, and others.
2006-2011	Advisory Board Member, the European Union HEALTHGRAIN Project; Mentor, AHA International Mentoring Program
2009	Director, UCLA Open Symposium on Translational Research for Metabolic Disease Prevention: From Molecules to Populations, UCTV
2010-	Lifetime Member, Chinese American Diabetes Association (CADA)
2011-2013	Co-Organizer and Co-Director, Joint annual symposium of the Genomic Analysis Training Program and the BWF-IT-MD program, CA
2013-	Chief Consultant, Department of Endocrinology (Obesity and Diabetes Clinics), Guangdong General Hospital, China
2015-2016	Volunteer and Speaker, AHA Heart Ball, Providence, RI
2016	External Reviewer: “Global Alliance for the Future of Food has commissioned on the health impacts and externalities of food system”, the International Panel of Experts on Sustainable Food Systems (IPES)
2016-	Member, Advisory Board, North America Chinese Society for Nutrition (NACSN)
2018-	Expert Reviewer, National Academy of Medicine Committee on Nutrigenomics, Washington DC

### **FACULTY SEARCH COMMITTEES:**

- 2002 Member, Faculty Search Committee (Bioinformatics), Division of Preventive Medicine, Harvard Medical School and Brigham and Women's Hospital, Boston, MA
- 2006-2007 Member, Faculty Search Committee (Biostatistics), UCLA School of Public Health, Los Angeles, CA
- 2006-2008 Member, Faculty Search Committee (Nutrition), UCLA School of Public Health, Los Angeles, CA
- 2006-2008 Member, Faculty Search Committee (Computation Biology), UCLA School of Public Health, Los Angeles, CA
- 2014 Chair, Faculty Search Committee (Molecular Epidemiology of Diabetes Research Track), Brown University, Providence, RI
- 2015 Chair, Ad Hoc Promotion and Reappointment Committee (Assistant Professor of Epidemiology), Department of Epidemiology, Brown University

#### **EDITORIAL ACTIVITIES (SELECTED):**

- 1994- Reviewer, American Journal of Epidemiology, International Journal of Epidemiology, American Journal of Public Health, Journal of American College of Nutrition, Preventive Medicine, New England Journal of Medicine (NEJM), Journal of American Medical Association (JAMA), British Medical Journal (BMJ), The Lancet, Annals of Internal Medicine (Annals), Circulation, American Journal of Clinical Nutrition (AJCN), International Journal of Obesity, Obesity Research, Diabetes, Diabetes Care, American Journal of Human Genetics (AJHG), Annals of Human Genetics, European J of Clinical Nutrition, Journal of American College of Cardiology, Bioinformatics, Metabolism, Clinical Chemistry, Public Library of Science (PLoS ONE, PLoS Genetics); and many others
- 2005- Editorial Board Member, International Journal of Molecular Epidemiology and Genetics, Micronutrient Information Center, Linus Pauling Institute, Cytokines, Journal of Nutrition and Metabolism, Adipocyte, International Journal of Clinical and Experimental Medicine, Nutrition Discovery, American Journal of Clinical Nutrition (AJCN)
- 2016- Associate Editor, Journal of Diabetes;  
Associate Editor, The American Journal of Clinical Nutrition
- 2018- Associate Editor, Chronic Diseases and Translational Medicine

#### **AWARDS AND HONORS (SELECTED):**

- 1996-1998 Institutional National Research Service Award (F31), NIH and Department of Nutrition, Harvard University, Cambridge, MA
- 1996 Lyman and Grew Scholarship for Professional Promise in Medical and Health Sciences, Harvard University, Cambridge, MA

- 1997 Individual National Research Service Award (F32), NIH, Bethesda, MD
- 1998 Keynote Speaker, Insulin Resistance, Hyperglycemia and Risk of Major Chronic Diseases: A Dietary Perspective. The 22nd Annual Scientific Meeting of the Australian Nutrition Society (ANS), Adelaide, Australia
- 2000-2004 Physician Scientist Development Award (K08 DK02767), National Institute of Digestive, Diabetes, and Kidney Diseases (NIDDK), NIH, Bethesda, MD
- 2002 Elected Fellow of the American College of Nutrition (FACN)
- 2002 Plenary Speaker, NIDDK Joint New Investigators and Network of Minority Research Investigators Workshop, National Institute of Health, Bethesda, MD
- 2002 Keynote Speaker, Dietary Carbohydrates and Health – Evolutionary Theory, Epidemiologic Observations, and Experimental Evidence, Chinese Academy of Preventive Medicine, Beijing, China
- 2004 Oak Ridge Institute of Science and Education (ORISE) Fellow Awarded by the Division of Nutrition and Physical Activity, Centers for Disease Control and Prevention (CDC), Atlanta, GA
- 2004 External Examiner, Institute of Environmental Medicine, Karolinska Institute, Sweden
- 2004 Elected Fellow, Council on Epidemiology and Prevention, American Heart Association (FAHA), Dallas, TX
- 2005 Applied Research Award in Nutrition, 1<sup>st</sup> Whole Grain Global Summit, Minneapolis, MN
- 2005 Plenary Speaker, Whole Grain and the Maintenance of Healthy Weight: Epidemiologic and Clinical Evidence. The 18th International Congress of Nutrition (ICN), Durban, South Africa
- 2005 Plenary Speaker, Diet Quality and Obesity. Canadian Society of Clinical Nutrition Annual Meeting, Montreal, Canada
- 2005 Meet the Expert Section (Elected Member), Society for Epidemiologic Research Annual Meeting (SER), Toronto, Ontario, Canada; Meet the Expert Section, 18th International Congress of Nutrition, Durban, South Africa
- 2005 One of the Top Papers Selected by NIH in its Annual Bibliography of Significant Advances in Dietary Supplements Research
- 2006 Elected Faculty Member, Delta Omega Public Health Honor Society
- 2006 Keynote Speaker, Dietary Factors and Reduced Disease Risk – Epidemiological Evidence. International Food & Health Innovation Conference, Malmo, Sweden
- 2006 Plenary Speaker, Epidemiologic Assessment of Chronic Diseases in the World and Dietary Implications. The 13th World Congress of Food Science and Technology, Nantes, France

- 2007 American Journal Clinical Nutrition (AJCN) Most Cited Original Research Articles 1998 – 2007 (first author of five original reports among the top 100 including the #1 most cited in the same 10-year period – original research paper #18)
- 2007 Research Featured by Prevention Magazine as one of the Top Ten Medical Breakthroughs of 2007 (original research paper #109)
- 2007 Professor in the Union (Elected by Students), UCLA Undergraduate Program, Los Angeles, CA
- 2007 Keynote Speaker, Prevention and Treatment of Lifestyle-related Diseases and Metabolic Syndrome: Diet and Exercise. 22nd International Scientific Forum, Tokyo, Japan
- 2008 Plenary Speaker, Dietary and Molecular Causes of Metabolic Diseases: Integrating Evolutionary Theory, Epidemiologic Observations, and Clinical Experiments for Prevention. 10th Symposium on Molecular Diabetology in Asia, Guangzhou, China
- 2009 Co-Chair, Diabetes Technology Society, Personalized Medicine for Diabetes, San Francisco, CA
- 2009 Excellence in Mentoring, Graduate Division Summer Program, UCLA, Los Angeles, CA
- 2010 External Examiner, the Faculty of Graduate Studies, the University of Guelph, Ontario, Canada
- 2010 Chair, Symposium on Sex Hormones in Type 2 Diabetes and Cardio-metabolic Risk, 70th American Diabetes Association (ADA) Scientific Sections, Orlando, FL
- 2010 Distinguished Alumni Speaker, 25th Anniversary of University at Albany School of Public Health, Albany, NY
- 2010 Faculty1000 Medicine Award of a “Must Read” Certificate to the paper by Ding et al. NEJM 2009 (ref #131) - Faculty1000 identifies and evaluates the most important articles published by peer-nominated leading researchers and clinicians
- 2011 Council of Canadian Academies, Top 1% Most Highly Cited Investigators Worldwide
- 2011 Marquis’s Who’s Who in Medicine and Healthcare
- 2012 Elected Member, American Society of Clinical Investigation (ASCI)
- 2012 Elected Member, American Epidemiological Society (AES)
- 2012 Member, NHLBI Global Health Think Tank, Bethesda, MD
- 2012 Director’s Seminar, Understand Interactions for Curbing the Epidemics of Our time, Fred Hutchinson Cancer Research Center, Seattle, WA

- 2015 Plenary Speaker, The 19th Annual Scientific Conference of the Chinese Medical Society (Diabetes Chapter, CDS), Suzhou, China
- 2016 Plenary Speaker, 18th South China International Congress of Cardiology, Guangzhou, China
- 2016 Plenary Speaker, Magnesium Supplementation and Counseling on Glycemic and Genomic Outcomes Among Overweight Pregnant Women. XIV International Magnesium Symposium, Rome, Italy
- 2016 American Heart Association Mentoring Award, Council on Functional Genomics and Translational Biology (FGTB) The FGTB Mentoring Award exemplifies an unprecedented commitment to moving the field of science forward. The winner of this yearly award must be an accomplished scientist that goes above and beyond to mentor well-trained and well-rounded individuals with a passion for science. The award will be given to an individual who during their career has dedicated leadership and success in mentoring individuals in scientific careers.  
[https://professional.heart.org/professional/MembershipCouncils/ScientificCouncils/UCM462269\\_Functional-Genomics-and-Translational-Biology-FGTB-Mentoring-Award.jsp](https://professional.heart.org/professional/MembershipCouncils/ScientificCouncils/UCM462269_Functional-Genomics-and-Translational-Biology-FGTB-Mentoring-Award.jsp)
- 2017 Keynote Speaker, Chinese Nutrition Society Congress, Beijing, China
- 2017 American Society of Nutrition (ASN) Research Innovation Award, at the Experimental Biology (EB) meeting, Chicago, IL
- 2017 Dean's Award for Excellence in Mentoring in Public Health, Brown University, Providence, RI
- 2018 Keynote Speaker, 20<sup>th</sup> South China International Congress of Cardiology, Guangzhou, China
- 2018 Plenary Speaker, China Heart Congress, Beijing, China.

#### REPORT OF RESEARCH:

#### NARRATIVE:

My research is focused on understanding the etiology of complex diseases with emphasis on developing strategies for their management and prevention. My research group conducts both observational and experimental work in humans and animals with the ultimate goal to understand how environmental (particularly dietary) and genomic factors influence the development of chronic diseases in diverse human populations (defined by sex, ethnicity, regions, lifespan and evolutionary forces). Our work typically cut across boundaries of multiple fields (e.g., nutrition, genetics, and physiology and clinical medicine).

The **first** substantive area of work is in nutrition where since 1993 I have been studying the biological effects of dietary carbohydrates on various cardiometabolic health outcomes in diverse populations. Using biomarkers, I was among the first to define and quantify a novel nutritional concept of dietary glycemic load (GL) in several cohorts of men and women in the United States (U.S.), which has since been widely used in the clinical management of diabetes as well as in many dietary studies around the world. I was also among the first to prospectively investigate the role of dietary GL and refined carbohydrates in the development of

cardiometabolic outcomes particularly coronary heart disease (*Liu et al. 1998; JAMA 1999; 2000; AJCN 2000; 2001; 2003, \*Gross et al. AJCN 2004, Liu et al. Diabetes 2006*). In a series of original reports, my colleagues and I developed, refined, and validated dietary GL and quantify their functional roles in the development of a wide range of biochemical intermediaries and clinical outcomes in both observational and experimental settings. Using biomarkers of lipids (high density lipoprotein cholesterol, HDL, and triglycerides, TG), inflammation (high-sensitivity C reactive protein, hsCRP, IL-6, and TNFalphaR2), endothelial dysfunction markers (ICAM, VCAM, and E-selectin), and aging (Telomere length), my lab has determined the physiologic relevancies and clinical utilities of GL in several cohorts of men and women in the US, China and Brazil (*Liu et al. AJCN 2001; 2002; Ford and Liu Arch Int Med/JAMA 2001*). This work has also shown that raising plasma levels of TG and hsCRP while lowering levels of sex-hormone binding protein (SHBG) may be mechanisms whereby a high dietary GL may increase risk for CVD and diabetes, providing the very first empirical evidence in support of the notion that intake of refined carbohydrates and a high-GL increases CVD risk. Our initial work has led to a substantive area of research entirely devoted to understanding the new diet-heart hypothesis especially among high-risk individuals who are obese or insulin resistance (*Liu and Sun, J Diabetes 2016*). Subsequently, my research team has further identified components of what constitute a low GL diet contributing to lower plasma levels of insulin and glucose, markers of systemic inflammation, and reduced risk of CVD and diabetes. This body of work on the biological classification and assessment of various dietary carbohydrates (and micronutrient profiles) in relation to vascular outcomes has improved our understanding of nutritional management and interventions for obesity, diabetes and CVD. Since 2005, some of this work has been summarized as the scientific basis for the *Dietary Guidelines for Americans (2005, 2010, and 2015)*. Together with Professor Walter Willett at Harvard, we have authored several authoritative chapters in textbooks including the most widely used and authoritative medical textbook of *UpToDate since 2004 (Liu and Willett, so far it has been updated in 13 editions from 2004 to 2018)*.

The **second** main area is in clinical epidemiology and methodology where my work has contributed to the development of a systematic and evidence-based framework titled *G6P Analytics*<sup>®</sup>(global, precision, prediction, personalized, prevention, population, and policy) for precision medicine and population health (*Liu Atherosclerosis 2003; \*Song et al. Annals of Intern Med 2003 and AJHG 2004; \*Hao et al. Genet Epidemiol 2005; \*Wang et al. BMC Bioinformatics 2005; \*Chao et al. Arch Int Med/JAMA 2010; Liu and Song Diabetes 2010*). For example, we were among the first to use a quantitative meta-analytic approach in assessing the roles of genetic variants in T2D development (*\*Song et al. AJHG 2004; Ann Intern Med/JAMA 2004; Human Molecular Genetics 2007*). Quantitative Meta-analysis has now become the standard analytical approach in genome-wide association studies for studying complex disease genetics (*Liu and Sun, J of Diabetes 2016; Lin et al. Chinese Endocrine J 2017*).

The *G6P Analytics*<sup>®</sup> framework employs multiple disciplinary methods while focusing on integration, interpretation, implementation, and innovation. To investigate how dietary and nutritional factors may interact with genetic susceptibilities in determining an individual's risk, I have collaborated broadly and globally integrating state-of-the art biochemical and genetic assessment into both observational epidemiology and clinical intervention (*Liu Diabetes 2006; \*Hsu et al. Diabetes 2008*). My research team was the first to prospectively identified dietary magnesium to glucose homeostasis characterizing several significant gene-diet interactions in T2D development (*\*Song et al. Diabetes Care 2007 and BMC Med Genet 2009; \*Chan et al.*



JCEM 2014), including a functional variant of the *TRMP6* gene (responsible for magnesium active transport) that was shown to increase T2D susceptibility whose effects only expressed among women with low magnesium intake. Subsequently, we designed and conducted two randomized-controlled intervention trials testing the clinical efficacy of magnesium supplementation among overweight/obese individuals or among obese mothers and their offspring for preventing diabetes-related phenotypes. We observed that Mg supplementation for four weeks significantly decreased plasma levels of insulin and C-peptide and led to differential regulation of genes and proteins related to metabolic and inflammatory pathways (\*Chacko et al. AJCN 2010; \* Michele Cho UCLA reproductive fellowship dissertation 2013).

While actively pursuing answers to some mechanistic questions related to inflammation and endothelial dysfunction for diabetes development (Liu Arch Int Med/JAMA 2007; \*Song et al. Diabetes 2007 and Diabetes Care 2007), we also conducted the first comprehensive and systematic assessment of the roles of sex-hormones and their binding globulin (SHBG) in T2D development (\*Ding et al. JAMA 2006; Diabetologia 2007; NEJM 2009; \*Chen et al. Clinical Chemistry 2012). We found that specific levels of sex-steroids and SHBG may explain a longstanding paradox regarding sex-specific differences in cardiometabolic outcomes observed in clinical settings, first identifying several germline mutations in the **SHBG gene** that influence the risk of developing T2D (one increases while the other decreases risk). We have subsequently shown in multiple populations around the world the direct role of SHBG in affecting T2D risk (\*Ding et al. NEJM 2009; Frayling et al. HMG 2010; \*Chen et al. Clinical Chemistry 2012). Further, we showed that circulating levels of SHBG can be used not only as a predictive marker for genetic susceptibility of developing T2D but also as a cumulative measure of gene-environment interaction in affecting the clustering of metabolic syndrome and T2D risk (\*Goto et al. Diabetes 2010; Li et al. Diabetes Care 2010; \*Chen et al. Clin Chem 2012).

In recent years, I have devoted much effort in the development of a global network for evidence-based clinical and public health precision practice for chronic disease prevention and control. Particularly in China and Brazil, I have helped establish several large clinical and population studies of cardiometabolic outcomes across individuals' lifespan and across generations. Some of these studies are still ongoing including 1) The Shanghai Obesity and Diabetes Study (SOS) (\*Xu et al., BMC public health 2010, Wang et al. Obesity 2016; Diabetes 2016); 2) The prospective study of Brazilian Cardiovascular Health (EISA Brasil) (\*Lin et al. JAMA 2015); and 3) The Harbin Famine Study of Families (\*Li et al., AJCN 2016.) I am confident that these studies will prove to be of unique and invaluable values for young and aspiring investigators who want to seek answers to some of the aged-old questions of biological, clinical and public health significance (\*indicates that the first authors were trainees or mentees under my direct or primary supervision)

## **RESEARCH FUNDING INFORMATION (>20 MILLION US DOLLARS):**

### **PAST:**

1998-1999	Principal Investigator Glycemic Effect of Diet and Risk of Coronary Heart Disease National Institute of Diabetes and Digestive and Kidney Disease NIH/NIDDK/DK-72-020-6516
1999-2002	Co-Investigator

- Dietary Fiber and Risk of Coronary Heart Disease: A Pooled Analysis of Cohort Studies  
NIH/NHLBI, R01 HL58904/HL/United States (PI, Walter Willett)
- 2000-2004 Principal Investigator  
High Glycemic Diet and Risk of NIDDM and CHD  
NIH/NIDDK/K08 DK02767
- 2001-2003 Principal Investigator  
Carbohydrate Nutrition in Relation to Obesity and Chronic Diseases, Bell Institute of Nutritional Science, General Mills Inc.
- 2004-2005 Principal Investigator  
Developing an evidence-based Framework for Diabetes Prevention by Dietary and Lifestyle modification. Oak Ridge Institute of Science and Education (ORISE) and CDC
- 2001-2006 Co-Investigator  
Biochemical and Genetic Markers of Type 2 Diabetes Risk  
NIH/NIDDK, ROI DK058845 (PI, Frank Hu)
- 2003-2005 Co-Investigator  
Confirmation of Endpoints and Causes of Death in Cohort Studies  
NIH/NCI, P01CA087969 (PI, Graham Colditz)
- 2003-2005 Principal Investigator  
Glycemic Load, Insulin Sensitivity, and Plasma Inflammatory Markers in Type 2 Diabetic Patients: A Randomized, Controlled, Crossover Trial  
A Pilot grant from the Boston Obesity Nutrition Research Center. NIH/NIDDK, 2P30DK046200 (PI, Barbara Corkey)
- 2004-2007 Principal Investigator (subcontract),  
Breast & Prostate Cancer & Hormone-Related Gene Variants  
NIH/NCI, 1U01CA098233-01 (PI, David Hunter)
- 2004-2007 Co-Investigator  
Biochemical and Genetic Risk Factor for Stroke  
NIH, ROI NS050404 (PI, Kathy Rexrode)
- 2005-2008 Co-Investigator  
Framework Program for Global Health: Global Health Training Program  
NIH (PI, Gail Harrison)
- 2006-2009 Principal Investigator  
A Randomized Trial of Magnesium Supplement on Insulin Sensitivity and Inflammation Among Overweight or Obese Men and Women, Bell Institute of Nutritional Science, General Mills
- 2007-2009 Principal Investigator (Subcontract)  
Genes and Environment Initiatives in Type 2 Diabetes  
NIH/NHGRI, U01HG004399 (PI, Frank Hu)

- 2007-2010 Co-Principal Investigator  
UCLA-CA State of Health Service Training Program for Public Health Laboratory Directors, CA
- 2005-2012 Co-Principal Investigator (PI, 2010-2012)  
Clinical Center for the Clinical Trial and Observational Study of the Women's Health Initiative Extension East/West (Pool 2)  
NIH/NHLBI, N01-WH-4-2125 (PI, Lauren Nathan)
- 2002-2012 Principal Investigator  
Genetic and Biochemical Predictors for Type 2 DM Among Women  
NIH/NIDDK, R01 DK62290
- 2004-2012 Principal Investigator  
Steroid Hormones, Adipose-cytokines, and Diabetes Risk  
NIH/NIDDK, R01 DK066401
- 2011-2013 Principal Investigator  
Biochemical Predictors of Type 2 DM in Women  
NIH/NIDDK, 2R56DK062290-06A2
- 2005-2012 Co-Investigator  
Jonsson Comprehensive Cancer Center Core Grant  
NIH/NCI, CA0 16402 (PI, Judith Gasson)
- 2005-2012 Co-Investigator  
Cancer Epidemiology Training Program  
NIH/NCI, 5T32CA009142
- 2009-2012 Principal Investigator  
Telomere and its Bio-regulators as Predictors for Clinical Diabetes in Women,  
NIH/NIDDK, R21 DK 084452
- 2011-2013 Principal Investigator  
Effects of dietary minerals on metabolic outcomes among overweight pregnant women, Dry Bean Health Research Program
- 2009-2013 Principal Investigator (Subcontract)  
GWAS of Treatment Response in Randomized Clinical Trials- Study Investigators  
NIH/NHGRI U01 HG 005152-01 (PI, Alex Reiner)
- 2009-2017 Principal Investigator  
Burroughs Wellcome Fund UCLA Inter-School Program in Metabolic Diseases (BWF-IT-MD), Burroughs Wellcome Fund (effort donated after moving to Brown University)
- 2013-2017 Co-Investigator

Identify and Validate Tissue-specific Gene Networks and Key Regulators of Coronary Artery Disease Using Integrative Genomics, American Heart Association (PI, Yang X) (effort donated after moving to Brown University)

- 2012-2017 Co-Investigator  
UCSD-UCLA Diabetes Education and Research Center  
NIH/NIDDK (PI, Jerrod Olefsky) (effort donated after moving to Brown University)
- 2006-2016 Co-Investigator  
UCLA Genomics Analysis and Interpretation Training Program NIH/NHGRI, 5T32HG002536 (PI, Dr. Ken Lange) (Effort donated after moving to Brown University)
- 2012-2015 Principal Investigator (Subcontract)  
Genomics GPUS and Next Generation Computational Statistics NIH/NHGRI, R01 HG006139, NIH (PI, Eric Sobel)
- 2010-2015 Principal Investigator/Co-Investigator (Sites PI at UCLA and Brown) The national Women's Health Initiative Regional Center at Stanford University, NIH/NHLBI contract (PI, Stefanick M)
- 2011-2015 Co-investigator (Subcontract PI)  
Glycemic Load and Resistance Training on Endothelial Function and Inflammation, NIH/NIDDK, R01 90406A1 (PI, Roberts C)
- 2013-2018 Co-investigator  
DNA Reverses Gene Network Signatures of Fructose-induced Metabolic Syndrome, NIH/NIDDK R01DK104363, NIH (PI, Yang X) (Effort donated after moving to Brown University)
- 2014-2015 Principal Investigator  
Bean Growers Association's Dry Bean Health Research Program Award
- 2014-2015 Principal Investigator  
Cardio-Metabolic Health, The C.M. Clover Lectureship Fund, Brown University
- 2012-2017 Principal Investigator (multiple PIs)  
Meta-analysis of Type 2 Diabetes in African Americans – the MEDIA Consortium, NIDDK (contract effort donated since moving to Brown in 2013, contact PI, Dr. Maggie Ng)
- 2016-2020 Principal Investigator (contact PI)  
Cocoa Flavonoids and Multivitamin for Prevention of Diabetes in Men and Women (The COSMOS-Diabetes Trial)  
R01 DK106257-01A1 (received outstanding score of 19, though funding is now from Mars Inc. after 2017; PI, JoAnn Manson)

**CURRENT:**

- 2013-2018 Principal Investigator (PI)

Molecular Epidemiology and Nutrition Program (startup fund), Brown University, Providence, RI

- 2015-2017 Principal Investigator  
Integrative Genomics for Gene-Diet Interaction in Vascular Outcomes across Ethnicities, Cardiovascular Genome-Phenome Initiative Pathways Award, American Heart Association
- 2015-2020 Co-Principal Investigator  
Sucrose non-fermenting related kinase and adipose energy Homeostasis, NIH/NIDDK, R01DK103699-01A1, NIH (PI, Xu H)
- 2016-2017 Co-Principal Investigator  
Large Scale Modeling of a Big Multi-Cohort Data for Cardiovascular Diseases and Type 2 Diabetes, NSF 1557467 QuBBD (PI, Luo X)
- 2015-2018 Principal Investigator  
A Brown-Brazil-China Initiatives in Global Cardiometabolic Health (Brown BIG Health), Brown University
- 2017-2020 Co-Investigator and mentor  
Transgenerational effects of early-life exposure to the Chinese famine on cardiometabolic risk factors in adulthood and the underlying epigenetic mechanism. National Natural Science Foundation of China (81673156, PI, J Li)
- 2017-2019 Co-Principal Investigator (Subcontract PI)  
The genetics and biomarkers of small vessel stroke, AHA (PI, J Cole), American Heart Association
- 2017-2022 Co-Investigator, China National Health and Biomonitor Program, Chinese CDC (PI, X Shi), Chinese Ministry of Health, China
- 2018-2020 Principal Investigator  
Uncovering patterns of gene-diet interaction for cardiometabolic health, AHA, 17UNPG33750001
- 2018-2020 Primary Mentor/Co-Director  
Postdoctoral fellowship award: Genetic Architecture of Physical Activity and Its Relation with Cardio-metabolic Health in Multiethnic Populations, AHA, 17IFUNP33730001 (PI, Lin X)
- 2018-2023 Primary Mentor/Director  
STOP STROKE: Sex Specific Prevention of Stroke through Reproductive Risk Factors and Sex Hormone Effects, K23 HL140081-01 (PI, Madsen T), NHLBI, NIH
- 2018-2022 Principal Investigator (MPI, Zhang, Bai, and Liu),  
A Nested Case-Control Study of Exposure to Heavy Metals, Trace Elements, and Their Interaction on Diabetes Risk, NIDDK/NIH

(11<sup>th</sup> Percentile, pending to start in October 2018)

**Submitted/in Review:**

- 2018-2020 Principal Investigator  
Synchronization of multiple cohorts for integrated genomic analysis with special emphasis on gene-diet interaction, American Heart Association (AHA)
- 2018-2021 Principal Investigator  
Project 2, "Effects of Magnesium Supplement on Cardiometabolic & Exercise Function in Patients with Obesity & Diastolic Dysfunction"  
AHA Strategically Focused Prevention Research Network "Rhode Island Diabetes and Diastolic Heart Failure Strategically Focused Prevention Research Center"
- 2018-2020 Principal Investigator  
Genome-wide analysis of copy number variation in type 2 diabetes.  
1R21DK096292-01A1
- 2018-2021 Principal Investigator  
Environmental Endocrine Disrupting Chemicals and Risk of Diabetes in Women, R01ES023781-01
- 2018-2022 Principal Investigator  
Environmental endocrine disruptors and risk of cardiovascular disease: assessment integrating urine metabolites, serum proteins and germline mutations, NHLBI-CSB-WH-13-01-ST
- 2018-2022 Principal Investigator  
Brown University and Veteran Affairs (VA) Initiative for Cardio-Metabolic Health in Veterans, DoD program project
- 2017-2019 Principal Investigator (Subcontract)  
Gut Microbiome, Diet and Colon Adenoma  
NIH/NCI (PI, Li L)
- 2018-2022 Principal Investigator,  
A Prospective Study of FBN1, Asprosin, and Diabetes Risk in Women, NIDDK/NIH
- 2018-2022 Principal Investigator  
A large Randomized Trial of Magnesium Intervention Among Overweight Pregnant Women and their Offspring in Central China, NIDDK/NIH
- 2018-2022 Principal Investigator (MPI, Zhang, Bai and Liu)  
A Prospective Study of Toxic Metals, Essential Metals, and Their Interaction on the Risk of Cardiovascular Disease. NHLBI/NIH

- 2018-2022 Principal Investigator  
Strategically Focused Atrial Fibrillation Research Network Effects of Prophylaxis Magnesium and/or Zinc on Atrial Fibrillation in Cardiac Surgery Patients. AHA Winter 2018 PROJECT
- 2018-2023 Principal Investigator (MPI, Liu, Zhang, Xu)  
A Large Randomized Intervention Trial of Magnesium-Enriched Diet vs. Conventional Diet Among High-Risk Pregnant Women and Their Offspring. NIH

### **REPORT OF TEACHING:**

#### **HARVARD SCHOOL OF PUBLIC HEALTH COURSES:**

- 1996-1998 EPI 202b Intermediate Level Course in Epidemiologic Methods (Director – Donna Spiegelman); Section leader: 15 graduate students, 8 hours/week preparation, 30 hours contact time/year; NUE 216cd Nutritional Epidemiology (Course director – Walter Willett) Teaching assistant: 30 graduate students, 8 hours/week preparation, 30 hours contact time/year
- 1999-2001 NUE212b Nutrition and Heart Disease (Course director – Eric Rimm) Lecturer: 30 graduate students, 8 hours preparation, 2 hours contact time
- 2002-2005 Research Synthesis and Meta-Analysis Applications in Public Health and Clinical Medicine  
Course Director/Developer: 50 graduate students, 16 hours/week preparation, and 3 hours/week contact time for 8 weeks in the spring semester
- 2003-2005 NUE210b Nutrition biochemistry (Lecturer: 15 graduate students, 8 hours preparation, 2 hours contact time)
- 2003-2005 Training Program in Academic Nutrition (Program Director – Walter Willett)  
Preceptor: one doctoral student per semester, 2 hours/week contact time
- 2016 EPI207 Genetic Epidemiology (co-Instructor: 50 graduate students, 8 hours per week preparation and 4 hours per week contact time, Fall semester)

#### **HARVARD MEDICAL SCHOOL COURSES:**

- 2002-2004 AC701.0 Critical Reading of the Medical Literature  
Tutor: 4 hours/week preparation, 2 hours contact time/week
- 2002-2004 Preventive Medicine and Nutrition  
Tutor: 4 hours/week preparation, 2 hours contact time/week
- 2001 Advance Basic Science Seminar: Heart Disease, Simple and Complex Effects of Carbohydrates on Heart Disease, Staff of Brigham and Women's Hospital and Harvard Medical School  
Lecturer: 8 hours of preparation, 1 hour contact time

**UNIVERSITY OF CALIFORNIA AT LOS ANGELES (UCLA):**

- 2005 Nature vs. Nurture, and the Recent Epidemic of Metabolic Diseases in Westernized Populations – An Epidemiologic Perspective  
Lecture for Doctoral Students: 8 hours of preparation, 2 hours contact time
- 2006 Current Issues in Genomics and Nutrition, Guest Lecture for Epidemiology 292: Advanced Seminar, November 20th  
Lecture for Doctoral Students: 8 hours of preparation, 2 hours contact time
- 2006 Cancer Epidemiology, Molecular Epidemiology of Cancer, Nutritional Epidemiology, 4 hours contact time
- 2006 Energy Balance, Glucose Homeostasis, and Cancer Prevention – A Dietary Perspective, Guest Lecture for the Division of Cancer Prevention and Control, 2 hours contact time
- 2006- EPI400, 596, 598, 599 Independent Research, Tutor, and Supervision of Master and Doctoral Research Dissertation

**Developed and taught a series of four new courses (12 units) that won the Burroughs Wellcome Fund (BWF) award as core courses in establishing the UCLA-BWF interschool program in metabolic diseases (BWF-IT-MD) in 2008**

- 2007-2013 EPI258 Molecular Epidemiology of Obesity and Diabetes, Course Developer and Director, 4 units graduate level course
- 2007-2013 EPI297 Current Topics in Nutrition and Genomics, Course Developer and Director, 2-units graduate level course
- 2007-2013 EPI254 Nutritional Epidemiology, Course Developer and Director, 4-units graduate level course
- 2008-2013 EPI257 Advanced Nutritional Epidemiology, Course Developer and Director, 2-units graduate level course

**CONTINUING MEDICAL EDUCATION COURSES:**

- 2000 Whole Grains and Chronic Disease: A Self-Study Guide for Health Professionals, American Dietetic Association  
Technical consultant: 8 hours of preparation
- 2001 Diet and Heart Disease University of Massachusetts, Amherst, MA,  
Lecture: 8 hours of preparation, 2 hours contact time
- 2002 Dietary Carbohydrates and Coronary Health – How Much, What Types, and For Whom? Channing Laboratory, Harvard University, Boston MA  
Lecture: 8 hours of preparation, 1 hour contact time



- 2003 Association Studies of Genetic Variants and Complex Phenotypes, Beijing Union Medical College, Beijing, P.R. China  
Lecture: 8 hours of preparation, 1 hour contact time
- 2006 Molecular & Nutritional Epidemiology  
Sun Yat-Sen University  
Lecture: 8 hours of preparation, 2 hours contact time
- 2009 Genetics Epidemiology, Renal Week, 42nd Annual Meeting & Scientific Exposition, San Diego, CA  
Lecture: 8 hours of preparation, 1 hour contact time

### **BROWN UNIVERSITY COURSES/WORKSHOP**

- 2013- PHP2220B Nutritional Epidemiology. Lecturer.
- 2014-2015 PHP2180 Interpretation and Application of Epidemiology. Primary Instructor
- 2014 PHP2130 Human biology and epidemiology. Lecturer
- 2014- PHP2980 Grad independent study/thesis research. Primary Instructor
- 2014- PHP2985 MPH independent study/thesis research. Primary Instructor
- 2014- PHP2222 Genetic, Population and Health. Lecturer
- 2014- PHP2980 Grad independent study/thesis research. Primary Instructor
- 2014- PHP2985 MPH independent study/thesis research. Primary Instructor
- 2015- PHP2018 Epidemiology of Cardiometabolic Health. Course Developer and Director (Primary Instructor)
- 2015- PHP2070 Public Health/Community Service Internship (MPH CORE course). Primary Instructor, Group 2.
- 2017- PHP2118 Genomics Epidemiology. Course Developer and Director (Primary Instructor)
- 2017- Co-director, Brown University Summer and HUST Workshop on Epidemiology and Public Health. Providence, RI.

### **TEACHING LEADERSHIP ROLE:**

At Harvard, I developed and taught a semester-long public health core course on research synthesis and meta-analysis which illustrates the application of epidemiologic principles and relevant statistical methods to the development of evidence-based clinical and public health practices. I was among the first to introduce the assessment of high-throughput biotechnologies and genomic science into public health and clinical settings.

In training epidemiologists to go beyond standard assessment of environmental risk factors while at the same time critically and systematically address the *“epidemic of information/misinformation”*, I have developed several novel courses with curricula that emphasize the application of quantitative methods and evidence-based principles to the exploration and integration of comprehensive biological and clinical data. At UCLA, I led the integration of training activities across the entire campus for a series of didactic courses described above (EPI254, 257, 258 and 297). The overarching objective was to teach students how to sensibly incorporate, analyze, and interpret emerging genomic data in the context of other phenotypic variables traditionally assessed by epidemiologists. Because of these innovative teaching activities bridging disciplinary boundaries, I won a prestigious award from

the BWF foundation in pioneering the establishment of a UCLA wide inter-school Training Program in Metabolic Diseases (BWF-IT-MD, <http://mdtp.mednet.ucla.edu>). This program is one of our nation's first transdisciplinary PhD program integrating training in both laboratory and population sciences to provide a comprehensive transdisciplinary education in all facets of metabolic diseases. To meet the challenge of understanding the explosion of biological data for etiologic inquiry, biomedical scientists need to be proficient in applying epidemiologic principles and statistical methods to critically and quantitatively synthesize and interpret data from diverse research fields and facilitate "evidence-based" decision-making. From 2009 and 2013, I further expanded these teaching via several public symposia. These included "Translational Research for Metabolic Disease Prevention: From Molecules to Populations" that was broadcasted by the University of California TV network (UCTV) ([www.uctv.edu](http://www.uctv.edu) or [www.youtube.com](http://www.youtube.com)) and several lectures to medical students, residents and faculty at grand rounds throughout the U.S. and internationally. Since coming to Brown In 2013, I have taught a graduate core course in epidemiology in 2014 and 2015, and developed two new courses, one titled the Epidemiology of Cardiometabolic Health and the other titled Genomics Epidemiology (Taught in 2016 and 2017).

In summary, teaching and mentoring has always been at the top of my scholarly agenda. As I reflect on my teaching and mentoring experience over the years, I am thankful for the opportunities to work with so many exceptional and dedicated students who have contributed greatly to our community over the years. Recently, my mentoring effort was recognized by the AHA in its 2016 annual scientific conference in New Orleans. It was very meaningful to have received the AHA mentoring award as it reaffirms my beliefs in the nobility of our profession and that doing science is most fun as a communal experience in the process of truth seeking.

#### **Advisory and Supervisory Responsibilities in Clinical or Laboratory Settings:**

On average, I devote 16 hours/week in the teaching, mentoring and supervising trainees. At Harvard, UCLA and Brown, I have directly supervised over 100 undergraduate and graduate students, postdoctoral fellows (MD and/or PhD), and junior faculty members, many of who have gone on to become productive and successful colleagues in fields of nutrition, medicine, nursing, OB/GYN, physiology, community health, and epidemiology. My advisees/ mentees include ~70 women and ~30 men from various backgrounds, race and ethnicity-( ~50 Asian, ~30 Caucasian, ~10 African-American and others). My responsibilities include advising thesis work, arranging for internship opportunities, didactic teaching, as well as consultation and mentoring.

#### **REGIONAL, NATIONAL, AND INTERNATIONAL CONTRIBUTIONS:**

I have given **152** presentations including numerous keynote or plenary lectures at premier venues (the NIH, the CDC, AHA, ADA, WHO, and Gordon conferences), and at top academic institutions around the world:

##### **1993**

1. Invited Speaker: Evaluation of the Behavioral Risk Factors Surveillance System. Epidemic Intelligence Service (EIS) Surveillance Conferences, CDC, Atlanta, GA

##### **1994**

2. Invited Speaker: The Reliability of Recalled Alcohol Intake. Monthly Seminar, National Center for Chronic Disease Prevention and Health Promotion, CDC, Atlanta, GA

3. Invited Speaker: A Meta-Analysis on the Relationship between Alcohol Intake and the Risk of Breast Cancer, CDC, Atlanta, GA

**1995**

4. Invited Speaker: Alcohol and Body Weight: Where Do All the Calories Go? The Boston Obesity Research Coordinating Center, Boston, MA

**1998**

5. Invited Speaker: Collinearity – Statistical Nemesis or Biological Reality? Assessing the Glycemic Effect of Carbohydrate on CHD Risk. Harvard Human Nutrition Seminar, Boston, MA
6. Invited Speaker: Symposium on New Development in Diet and Heart Disease: Dietary Glycemic Load and CHD Among US Nurses, The 31st SER Conference, Chicago, IL
7. Keynote Speaker: Insulin Resistance, Hyperglycemia and Risk of Major Chronic Diseases: A Dietary Perspective, The 22nd Annual Scientific Meeting of the Australian Nutrition Society, Adelaide, Australia

**1999**

8. Invited Speaker: Dietary Glycemic Load and Coronary Heart Disease, Division of Nutrition and Physical Activity, CDC, Atlanta, GA
9. Invited Speaker: Fats vs. Carbohydrates and Foods vs. Nutrients for Chronic Disease Prevention, American Cancer Society (ACS), Atlanta, GA

**2000**

10. Invited Speaker: Methodological Considerations in Assessing Dietary Glycemic Load in epidemiologic Studies and Interpreting Findings for Coronary Heart Disease, Harvard Human Nutrition Seminar, Department of Nutrition, Harvard School of Public Health, Boston, MA
11. Invited Speaker: Intake of Whole Grains in Relation to Risk of Type 2 Diabetes and Coronary Heart Disease, The Vahouny Fiber Conference, Washington DC
12. Invited Speaker: The Impact of Glycemic Indices of Foods, Physical Activity, and Caloric Distribution on Health. Workshop on Dietary Reference Intakes (DRI) for Macronutrients convened by the Food and Nutrition Board (FNB), Institute of Medicine, National Academy of Science, Washington DC

**2001**

13. Invited Speaker: Insulin Resistance and Risk of Major Chronic Diseases: A Dietary Perspective for Curbing the Epidemic of Our Time, The World Federation of Public Health Associations' 9th International Congress, Beijing, P.R. China
14. Invited Speaker: Glycemic Index and Health: The Quality of the Evidence, Workshop organized by the Food and Agriculture Organization (FAO)/World Health Organization (WHO), Bandol, France
15. Invited Speaker: The Emerging Significance of Dietary Glycemic Load: Fact or Fiction? The Welch Epidemiology and Prevention Center, School of Medicine, The John Hopkins University, Baltimore, MD

16. Plenary Speaker: Plant-based Foods, Antioxidants, and Phytochemical and the Prevention of Cardiovascular Disease – Epidemiological Evidence. The Antioxidant Initiative Conference, Oldways Preservation Trust, Lake Tahoe, CA
17. Invited Speaker: Insulin Resistance and Hyperglycemia in Relation to Diabetes and Heart Disease – Dietary Perspective with Implication in Cancer Research. Division of Population Sciences and Genetics, National Cancer Institute (NCI), Bethesda, MD
18. Invited Speaker: The Women's Health Study and the Physicians' Health Study II, The Longevity Consortium Workshop, Reykjavik, Iceland
19. Keynote Speaker: Dietary Carbohydrates and Coronary Health: Why, How Much, What Types, and for Whom? The Symposium on Glycemic Index and Health. University of Melbourne, Melbourne, Australia
20. Keynote Speaker: Dietary Glycemic Load As a novel Functional Measure in the Prevention of Type 2 DM and Heart Disease, The 19th Nutritional Foundation Conference of the University of Sydney, Sydney, Australia

## 2002

21. Invited Speaker: The Emerging Significance of Dietary Glycemic Index and Load: Functional Concepts in Dietary Studies of Metabolic Diseases, UCLA, Los Angeles, CA
22. Keynote Speaker: The Importance of Distinguishing Types of Starch in Dietary Studies of Metabolic Disease, The 14th Annual Food Focus of the American Association of Cereal Chemists, MN
23. Invited Speaker: The Women's Health Study and Physicians' Health Study, Longevity Consortium Workshop, NIA and UCSF, Napa, CA
24. Invited Speaker: Dietary Carbohydrate and Coronary Health: Evolutionary Theory, Epidemiologic Observation, and Experimental Evidence, Tufts University, School of Nutrition, MA
25. Invited Speaker: Emerging Findings in Dietary Study of Obesity, Bell Institute of Human Nutrition, General Mills Inc., MN
26. Keynote Speaker: Dietary Carbohydrates and Health – Evolutionary Theory, Epidemiologic Observations, and Experimental Evidence, Workshop on Nutrition and Health, Chinese Academy of Preventive Medicine, Beijing, P.R. China.
27. Keynote Speaker: Whole- Versus Refined? Grain Foods in Health and Disease, Shanghai Nutrition Society Annual Meeting, Shanghai, P.R. China

## 2003

28. Plenary Speaker: Healthy People Healthy Grains – Epidemiologic Evidence, International Conference on the Mediterranean Diet, Boston, MA
29. Invited Speaker: Dietary Glycemic Index and Load: Physiological Concepts and Practical Guidance in Dietary Studies of Metabolic Diseases, Slone Center for Epidemiologic Studies, Boston University, Boston, MA
30. Keynote Speaker: What the Science of Genomics Can or Cannot Do for Nutrition Research, The 44th Annual Scientific Meeting of the American College of Nutrition, Nashville, TN
31. Plenary Speaker: Prevention of Diabetes by Diet and Lifestyle Modification, The 44th Annual Scientific Meeting of the American College of Nutrition, Nashville, TN

32. Invited Speaker: Symposium on Diet and Obesity, The Scientific Section of the American Heart Association, Orlando, FL
33. Invited Speaker: APOE Genotypes and Coronary Heart Disease Risk – Can Meta-Analysis Provide an Answer? The Scientific Section of the American Heart Association, Orlando, FL

## 2004

34. Invited Speaker: The Influence of Genetic Variants and Nutrition on the Development of Vascular Diseases: Current Status and Future Direction, UCLA School of Public Health, Los Angeles, CA
35. Invited Speaker: The Nutritional and Genetic Epidemiology of Type 2 Diabetes Mellitus: Current Status and Future Direction, University of Massachusetts Medical School, Worcester, MA
36. Invited Speaker: The Emerging Significance of Dietary Carbohydrates in the Context of a Sedentary Lifestyle for the Development of Chronic Diseases, Karolinska Institute, Sweden
37. Invited Speaker: A Large Association Study of Candidate Genes for Type 2 Diabetes Risk in Multiethnic Women: A Progress Report on SNP Selection Strategy, Harvard Program on Molecular and Genetic Epidemiology, Boston, MA
38. GrandRound Speaker: Dietary Causes of Metabolic Diseases: Evolutionary Theory, Epidemiologic Observations, and Clinical Experiments, Medicine Grand Round, University of Massachusetts Medical School, Worcester, MA
39. Keynote Speaker: Diet and Lifestyle Determinants of Obesity and Type 2 Diabetes: An Assessment of Metabolic and Epidemiologic Evidence for Prevention, Journey to Excellence: 12th Annual Acute Care Nursing Symposium, Columbus, OH

## 2005

40. Invited Speaker, Dietary Determinants of Metabolic Diseases: An Overview of the Relevant Evolution Theories, Epidemiologic Observations, and Clinical Experiments, Harvard Program in Nutrition, Boston, MA
41. Keynote Speaker: Dietary Determinants of Metabolic Syndrome, Canadian Nutrition Society Annual Meeting, Montreal, Canada
42. Plenary speaker: Whole Grain and the Maintenance of Healthy Weight: Epidemiologic and Clinical Evidence, The 18th International Congress of Nutrition, Durban, South Africa
43. Plenary speaker: Whole Grains and Obesity. Whole Grains Health: A Global Summit, Minneapolis, MN
44. Plenary speaker: Diet Quality and Obesity. Canadian Society of Clinical Nutrition Annual Meeting, Montreal, Canada

## 2006

45. Plenary speaker: Dietary Glycemic Load is Important. American Heart Association Annual Spring Conference, Washington DC
46. Symposium Speaker, Public Health Implications of Stem-cell Research, UCLA Center for Society and Genetics, Los Angeles, CA

47. Invited Speaker, Dietary Determinants of Metabolic Diseases, Vanderbilt University School of Medicine, Nashville, TN
48. Invited Speaker, Dietary Glycemic Load and Heart Disease – A New Paradigm, Sun Yet-Sen University, School of Public Health, Guangzhou, P.R. China
49. Invited Speaker, Nature vs. Culture, and the Recent Epidemic of Metabolic Diseases, Institute of Nutritional Science, Chinese Academies of Sciences, Shanghai, P.R. China
50. Invited Speaker, Dietary Factors and Reduced Disease Risk – Epidemiological Evidence, International Food & Health Innovation Conference, Malmo, Sweden
51. Invited Speaker, Glycemic Load and Health Outcomes, World Health Organization, Geneva, Switzerland
52. Plenary Speaker: Epidemiology of Chronic Disease in the World and Dietary Implications, The 13th World Congress of Food Science and Technology, Nantes, France.
53. Invited Speaker, Dairy Intake and Risk of Type 2 Diabetes in Women, Milk, Hormones, and Human Health Workshop, Boston, MA.
54. Plenary Speaker: Glycemic Load and Glycemic Index Overweight and Obesity Relevant Markers, International Life Science Institute, Nice, France.

**2007**

55. Plenary Speaker: Frontier in Diabetes Research Sex Hormones as Predictors for Type 2 Diabetes, American Diabetes Association 67th Annual Scientific Sessions (ADA), Chicago IL.
56. Invited Speaker: World Health Organization (WHO)'s Scientific Update on Dietary Carbohydrates in Human Nutrition One Step Forward Two Steps Back, UCLA Training Program on Public Health Nutrition, Los Angeles, CA
57. Invited Speaker: Genomic Science and its Implication to Preventive and Predictive Medicine, Sun Yat-Sen University-UCLA Leadership Program in Academia, UCLA School of Education and Information Management, Los Angeles, CA
58. Invited Speaker: Circulating Levels of Resistin in Relation to Metabolic Markers and Risk of Developing Type 2 Diabetes in Postmenopausal Women, 2007 American Heart Association Scientific Section (AHA), Orlando, FL
59. Invited Speaker: From "Sick" Populations to "Sick" Molecules - Understanding the Modern Epidemics of Metabolic Diseases for Prevention, University of Southern California, Los Angeles, CA
60. Invited Speaker: The Modern Epidemics of Metabolic Diseases in Westernized Populations - An Epidemiologic Perspective, Centers for Disease Control and Prevention, Atlanta, GA
61. Plenary Speaker: "Prevention and Treatment of Lifestyle-related Diseases and Metabolic Syndrome: Diet and Exercise", 22nd International Scientific Forum, Tokyo, Japan
62. Invited Speaker: My Career in Academic Medicine and Public Health, Sun Yat-sen University – Cancer Center, Guangzhou, China

**2008**

63. Invited Speaker: Magnesium in the Treatment of Diabetes and Cardio-metabolic Syndrome, Gordon Conference on Magnesium in Biochemical Processes and Medicine, Ventura, CA
64. 2008 Invited Speaker (GrandRound): Dietary, Hormonal and Genetic Causes of
65. Metabolic Diseases: Recent Findings in Diverse Populations, Endocrine Grand Rounds, UCLA, Los Angeles, CA
66. 2008 Plenary Speaker: Nutrigenetics: Current Status, American Society of Nutrition Professional Development Symposium, San Diego, CA
67. Plenary Speaker: Plant-based Diet, European Union Health Grain Consortium Annual Meeting, Madrid, Spain
68. Plenary Speaker: Fiber and Obesity, Canadian Society for Clinical Nutrition-CSNS Annual Scientific Meeting, Toronto, Canada
69. Plenary Speaker: Dietary and Molecular Causes of Metabolic Diseases: Integrating Evolutionary Theory, Epidemiologic Observations, and Clinical Experiments for Prevention, 10th Symposium on Molecular Diabetology in Asia, Guangzhou, China

## 2009

70. Invited Speaker: Sex-Hormone Biology in Type 2 Diabetes, Family Medicine and Community Medicine Grand Round, Brown University, Rhode Island
71. Invited Speaker: Diabetes Risk Prediction and Clinical Implications, The 9th Emerging Information & Technology Conference, Massachusetts Institute of Technology, Cambridge, MA
72. Invited Speaker: Gene, Environment, and Epidemics of Our Time: Can We Put Humpty-Dumpty Back Together for Prevention, Division of Cancer Prevention and Control at UCLA, Los Angeles, CA
73. Invited Speaker: Sex Hormone Biology in Type 2 Diabetes: Translating Epidemiologic Observations to Clinical Risk Stratification and Interventions, Kaiser Permanente Southern California, Pasadena, CA
74. Plenary Speaker: Genetics Epidemiology, Renal Week, 42nd Annual Meeting & Scientific Exposition, San Diego, CA
75. Plenary Speaker: Translational Research for Metabolic Disease Prevention: From Molecules to Populations Symposium, "Biomarkers for Type 2 Diabetes Prevention: Translating Epidemiologic Observations to Clinical Risk Stratification and Intervention", Broadcasted by UCTV, Los Angeles, CA

## 2010

76. Invited Speaker: Molecular Markers of Complex Diseases, Department of Community Health, Brown University, Providence, Rhode Island
77. Dean's Distinguished Speakers Series. Genes, Diets and "Epidemics of Our Time". University at Albany School of Public Health, Albany, NY
78. Invited Speaker: Recent Advances in Metabolic Diseases, Department of Epidemiology, Columbia University, New York, NY

## 2011

79. Invited Speaker: Molecular Epidemiology of Metabolic Diseases, Department of Community Health, Brown University, Providence, Rhode Island
80. Invited Speaker: Translational Epidemiology: Challenges and Opportunities, Department of Epidemiology, University of Pittsburgh, Pittsburgh, PA

## 2012

81. Invited Speaker: A prospective study of telomere and its bio-regulators as predictors for clinical diabetes in women, Seminar of the Women's Health Initiative Scientific Interest Group on Aging, Los Angeles, CA
82. Invited Speaker: Understand interactions for curbing the epidemics of our time, Director's Seminar, Fred Hutchinson Cancer Research Center, Seattle, WA
83. Plenary Speaker: Incorporating systems biology into observational and experimental studies of gene-nutrition interaction, Symposium on gene-nutrition interaction, 45th Society for Epidemiologic Research (SER), Minneapolis, MN
84. Invited Speaker (GrandRound): Magnesium, vitamin D, inflammation and vascular outcomes, OBGYN Grand Round, UCLA, Los Angeles, CA
85. Invited Speaker: Curbing the epidemics of our time: Collaborative experience to improve understanding. NHLBI Global Health Think Tank. NIH, Bethesda, MD
86. Invited Speaker: Challenges in nutritional epidemiology of chronic diseases, WHO workshop, Beirut, Lebanon
87. Invited Speaker (GrandRound): Sex hormones and sex-hormone binding protein (SHBG) as predictors for diabetes and metabolic syndrome, Endocrine Grand Round, University of Utah, Salt Lake City, Utah
88. Plenary Speaker: Evaluating the sex-steroid axis and sex hormone binding globulin (SHBG) for clinical risk stratification of diabetes and metabolic syndrome, 10th international congress on insulin resistance, obesity, diabetes and cardiovascular risk, Los Angeles, CA
89. Plenary Speaker: Recent advances and future challenges in studying gene-nutrition interactions. The 2ND International Symposium on Nutrition and Health. GuangZhou, China

## 2013

90. Invited Speaker: Diabetes' Sexy Axis: Time to incorporating sex-steroids and sex hormone binding globulin (SHBG) for clinical risk stratification. Combined Endocrine Grand Round, Department of Medicine, Alpert Warren School of Medicine and Rhode Island Hospital, Providence, RI
91. Plenary Speaker: 11th Annual World Congress on Insulin Resistance, Diabetes and Cardiovascular Disease (WCIRD), Los Angeles, CA
92. Plenary Speaker: Novel biomarkers for understanding vascular diseases: risk stratification and interventions. University of São Paulo, São Paulo, Brazil
93. Symposium Speaker: Application of Mendelian Randomization in observational studies. University of São Paulo, Brazil.
94. Symposium Speaker: Utilities of sex steroids and sex-hormone binding globulin in clinical risk stratification. Brazilian congress of cardiology, São Paulo, Brazil.



**2014**

95. Invited Speaker: Shared molecular pathways and gene networks for cardiovascular disease and type 2 diabetes in women across diverse ethnicities. Epidemiology and Prevention | Nutrition, Physical Activity and Metabolism 2014 Scientific Sessions, San Francisco, CA
96. Invited Speaker (GrandRound): Consensus and controversies: the 2013 ACC/AHA Cholesterol Guideline. GrandRound, Department of Medicine, Rhodes Island Hospital, Providence, RI
97. Invited Speaker: Epidemiology of Cardiovascular Outcomes. Guangdong General Hospital and Gaungdong Academy of Medical Sciences, GuangZhou, China
98. Symposium Speaker: Implementation of Cohort Studies in Diabetes Research and prevention, 18th China Diabetes Society Scientific Meeting, Guangzhou, China
99. Invited Speaker: Moving Dietary Research toward a Standard Clinical Practice. University of Copenhagen, Denmark
100. Invited Speaker: Establishing consistent standards for whole grain foods in research and practice. United States Department of Agriculture (USDA), Washington, DC
101. Invited Speaker: Shared Molecular Pathways for Cardiovascular Disease and Diabetes in Women Webinar, Obesity and Diabetes Interest Group in the Women's Health Initiative, Washington, DC
102. Invited Speaker: Grains & Health Public Private Partnership Workshop, Washington DC

**2015**

103. Invited Speaker, Epidemiology of Cardiometabolic Health. The Brown-China Forum on Public Health Research and Health Policy, Brown University, Providence, RI
104. Invited Speaker: Diabetes Sexy Axis: Sex Steroids and Their Binding Protein in Clinical Risk Stratification and Interventions. Medicine Grand Rounds. Sun Yat-Sen University School of Medicine, Guangzhou, China
105. Invited Speaker: Assessment of Therapeutic Targets using Integrative Genomics. The 88th Annual Scientific Meeting of the American Epidemiological Society, Berkeley, CA
106. Invited Speaker: Comprehensive Assessment of Therapeutic Targets and Off-Targets Using Integrative Genomics and Epidemiology. Symposium of Cardiovascular Basic & Translational Medicine in 17th South China International Congress of Cardiology. Guangzhou, China.
107. Invited Speaker: Molecular Epidemiologic Investigation by A Clinical Endocrinologist. Endocrine Division, Guangdong General Hospital, Guangzhou, China.
108. Invited Speaker: Novel Strategies to Evaluate Drug Targets and Gene and Environment Interactions. 2015 WHI Investigator Meeting, Bethesda, MD
109. Invited Speaker: Obesity in the Women's Health Initiative: What is the role of genetics. 2015 WHI Investigator Meeting, Bethesda, MD
110. Epidemiology of Global Cardiometabolic Health: Past, Present and Future. Fuwai Hospital, Beijing Union Medical College, Beijing, China
111. Environmental Endocrine Disruptors, Endogenous Sex Hormones and Risk of Cardio-metabolic Disorders. Beijing University, Beijing, China

112. Critical, Systematic, and Comprehensive Assessment of Medical Literature. Xian, China
113. Ruijing Distinguished Speaker's Lecture: From sex steroids to dietary and environmental endocrine disruptors: Diabetes' sex axis and the important role of sex-hormone binding globulin in clinical risk stratification and interventions. National Center for Metabolic Disease Research and Ruijing Hospital, Shanghai, China
114. Invited Speaker: Understand interactions between genetic and environmental determinants to control the chronic disease epidemic of our time: incorporating genetic and biochemical markers for risk assessment. Chinese Center for Disease Control and Prevention, Beijing, China
115. Symposium Speaker: Assessing CV therapeutic targets using genomics and epidemiology. 18th China Heart Congress, Beijing, China
116. Invited Speaker: Understand and improve cardiometabolic health of human population. Zhejiang University Medical School, Hangzhou, China
117. Invited Speaker: Incorporating systems biology into observational and interventional studies to excavate and understand gene-diet interactions. USDA Human Nutrition Research Center on Aging, Tufts University.
118. Pathways analysis of genomic drivers for cardiometabolic outcomes. AHA Scientific Sessions, Orlando, FL
119. Plenary Speaker: Recent advances in translational sciences of cardiometabolic Health, 19th Scientific Meeting of the Chinese Diabetes Society, Suzhou, China
120. Endocrine Grand Round, New Strategies in Studying Molecular Markers for Cardio-metabolic Health, Chinese University of HongKong (CUHK) Faculty of Medicine and Prince of Wales Hospital, HongKong, China

## 2016

121. Symposium Speaker: Biomarkers for cardiometabolic health, South China Heart Congress (SCC), Guangzhou, China
122. Plenary Speaker: Ending coronary heart disease by 2050. South China Heart Congress, Guangzhou, China
123. Invited Speaker: XIV International Magnesium Symposium: Magnesium Supplementation and Counseling on Glycemic and Genomic Outcomes Among Overweight Pregnant Women, Rome, Italy
124. Invited Speaker: 34th International Symposium on Diabetes and Nutrition: Genome-wide and candidate strategies in assessing potential metabolic therapeutic targets and gene x diet interaction along the insulin signaling and adipogenesis pathways. Prague, Czech Republic
125. Invited Speaker(Medicine GrandRound): New strategies in assessing potential metabolic therapeutic targets and gene x diet interaction Grand Round, Department of Medicine, University of Federico II Naples, Italy
126. Invited Speaker: Improving global cardiometabolic health: An epidemiologist's perspectives on prediction, precision, prevention, personalized, population, and policy; Faculty of Medical Science, Anglia Ruskin University, Cambridge, UK

127. Invited Speaker: Incorporating 6P analytics to improve global health: prediction, precision, prevention, personalized, population, and policy. World Life Science Conference. Beijing, China
128. Invited Speaker: Tracing environmental influences from modern to ancient to improve global cardiometabolic health. Joint Seminar of the Departments of Pharmacology and Medicine. The University of HongKong, HongKong.
129. Invited Speaker: Promoting methodological rigor in clinical research for physician-scientists. Department of Endocrinology, GuangDong General Hospital/GuangDong Academy of Medical Sciences
130. Invited Speaker: Award Symposium Mentoring young investigators of diverse background. Council on Functional Genomics and Translational Biology, American Heart Association Annual Scientific Conference, New Orleans.

## 2017

131. Invited Speaker: Understanding gene-environmental interaction to improve cardiometabolic health. Icahn School of Medicine at Mount Sinai, NY
132. Invited Speaker: Intake of Dietary Carbohydrates for Cardio-metabolic
133. Health: A Matter of Quality. Whole Grains Symposium, China Nutrition Congress, China
134. Plenary Speaker: From sex steroids to environmental endocrine disruptors: diabetes' sexy axis and its binding barometer for clinical risk stratification and intervention. American Epidemiology Society, New York.
135. Keynote Speaker: Understanding gene-environment interaction to improve both individual and population health. 13th Chinese Nutrition Congress. Beijing, China.
136. Plenary Speaker: Dietary Carbohydrate and Cardiovascular Health: A matter of quality. 13th Chinese Nutrition Congress. Beijing, China.
137. Plenary Speaker: Becoming an independent scholar in biomedical sciences and public health. An evening symposium at the 13th Chinese Nutrition Congress. Beijing, China
138. Invited Speaker: From molecules to populations, applying 6-P analytics to curb the epidemics of our time. Institute of Environmental Health, Chinese Center for Disease Control. Beijing, China
139. Invited Speaker: Why should endocrinologist and epidemiologist be the core and clues for the practice of precision, translational, and integrative medicine in a major academic medical center? GuangDong General Hospital and GuangDong Academy of Medical Sciences, Guangzhou, China.
140. Plenary Diabetes' Sexy Axis and Implications for Improving the Health Effects of Dietary Carbohydrate by Sex. 3rd International Carbohydrate Quality Consortium (ICQC) Meeting, Rome, Italy
141. Keynote Speaker: Mendelian Randomization, Molecular Mediation, and Prediction for Complex Diseases in Diverse Populations: A paradigm to improve drug development and nutrition intervention. Chinese Academy of Biological Sciences, Shanghai, China
142. The 116th Dr. Norman Bethune Memorial Lectureship, Causal Inference in Clinical Research. GuangDong General Hospital and GuangDong Academy of Medical Sciences, Guangzhou, China

**2018**

143. Keynote Speaker: How can we end the epidemics of cardiometabolic diseases: Some thoughts to integrate prevention and treatment paradigms for optimal health of individuals and populations following 6P-3G-4I. 20<sup>th</sup> South China International Congress of Cardiology (SCC), Guangzhou, China
144. How to interpret the 2017 AHA/ACC updated guideline for hypertension classification and control, Special Symposium organized by the Chinese Medical Chapter of Hypertension, at the 20<sup>th</sup> SCC, Guangzhou, China
145. Biomarker-calibrated total sugars intake and risk of obesity-related cancer in the Women's Health Initiative Observational Study. American Society for Nutrient. Boston, MA
146. Ending the epidemics of cardiometabolic diseases: how far we have come, and how much more we need to do. 106<sup>th</sup> Tongji Medical Forum, Wuhan, China.
147. Ending the epidemics of cardiovascular diseases: time is now to integrate both population and individual strategies for prevention. The Chinese CDC. Beijing, China.
148. Some thoughts about developing an integrative framework for prevention to end the No.1 killer epidemics of our time. Guangdong society of cardiology annual meeting. Guangzhou, China.
149. Understanding genetics, epigenetics, and gene-diet interaction to improve health outcomes. Discussion Leader, Gordon Conference on Epigenetics of Diabetes and Relevant Metabolic Outcomes. HongKong, China
150. Nature vs. Nurture, Causal Inferences on Health Outcomes across Lifespans and Generations: Has Anyone Seen the Marriage? China Heart Congress. Beijing, China
151. Nutrition and Human Health: A 21<sup>st</sup> Century Agenda. HongKong Polytechnic University, HongKong, China
152. Dietary Carbohydrates and Cardiometabolic Health with Emphasis on Biomarkers and Genetics Interaction. 36<sup>th</sup> International Diabetes and Nutrition Symposium European Diabetes and Nutrition Group. Opatija, Croatia

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