

# CURRICULUM VITAE

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## EDUCATION AND TRAINING

### **Undergraduate**

10/1978-07/1983	Shanghai Medical University, Shanghai, China	MD, 1983	Medicine
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### **Graduate**

09/1983-10/1986	Shanghai Medical University, Shanghai, China	MPH, 1986	Public Health/ Epidemiology
09/1992-03/1996	University of Southern California, Los Angeles, California, USA	PhD, 1996	Epidemiology

### **Post-Graduate**

09/1996-04/1999	Keck School of Medicine, University of Southern California, Los Angeles, California	Research Associate	Department of Preventive Medicine
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## APPOINTMENTS AND POSITIONS

### **Academic**

11/1986-12/1988	Research Fellow	Shanghai Cancer Institute, Shanghai, China
01/1989-07/1992	Assistant Professor, Department of Epidemiology	Shanghai Cancer Institute, Shanghai, China

05/1999-08/2005	Assistant Professor, Department of Preventive Medicine	Keck School of Medicine, University of Southern California, Los Angeles, California, USA.
06/2004-09/2004	Visiting Senior Research Fellow	Center for Molecular Epidemiology, Department of Community, Occupational, & Family Medicine, Faculty of Medicine, National University of Singapore, Singapore
09/2005-05/2010	Associate Professor with tenure	Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, Minnesota, USA
09/2005-09/2011	Member	The Masonic Cancer Center, University of Minnesota, Minneapolis, Minnesota, USA
06/2010-09/2011	Professor (with tenure)	Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, Minnesota, USA
10/2011-present	Adjunct Professor	Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, Minnesota, USA
10/2011-07/2012	Visiting Professor	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania, USA
08/2012- present	Professor (with tenure)	Department of Epidemiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pennsylvania, USA
10/2011-present	Associate Director	University of Pittsburgh Cancer Institute, for Cancer Control and Population Sciences, Pittsburgh, Pennsylvania, USA
10/2011-present	Co-Leader	Cancer Epidemiology and Prevention Program, University of Pittsburgh Cancer Institute, Pittsburgh, Pennsylvania, USA
08/2013-present	Arnold Palmer Endowed Chair in Cancer Prevention	School of Medicine, University of Pittsburgh, Pittsburgh, Pennsylvania, USA

**Non-Academic**  
Not Applicable

## CERTIFICATION AND LICENSURE

**Specialty Certification**  
Not Applicable

## Medical or Other Professional Licensure

Not Applicable

## MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

1996-present	American Association for Cancer Research
2004-present	Society for Epidemiologic Research
2004-present	American Association for the Advancement of Science

## HONORS

1995	National Scientific and Technological Achievement Award, China
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## PROFESSIONAL ACTIVITIES

### 1. Teaching

#### **a. Courses Taught**

<b>Years Taught</b>	<b>Course Number: Title</b>	<b>Hours of Lecture, Credits / Average Enrollment</b>	<b>Role in course Primary/Coordinator</b>
2007	PH6344-001: Epidemiological Methods IV	2 hr/wk-2 cr.; 39 graduate students	Primary Lecturer
2008	PH6344-001: Epidemiological Methods IV	2 hr/wk-2 cr.; 23 graduate students	Primary Lecturer
2009	PH6344-001: Epidemiological Methods IV	2 hr/wk-2 cr.; 14 graduate students	Primary Lecturer

#### **b. Other Teaching (lectures, tutorials and continuing education courses)**

<b>Date(s)</b>	<b>Type of Teaching</b>	<b>Title</b>
2005	Lecture	Research Methods in Cancer Epidemiology
2006	Lecture	Cancer Epidemiology
2007	Lecture	Cancer Epidemiology
2010	Lecture	Special Topics in Nutrition Science
2014	Lecture	Cancer Epidemiology

**c. Major Advisor for Graduate Student Essays, Theses, and Dissertations**

<b>Name of Student</b>	<b>Degree Awarded, Year</b>	<b>Type of Document and Title</b>	<b>Notes</b>
Can-Lan Sun	PhD, 2002-2005	Tea, soy and cancer	Associate Professor, City of Hope National Medical Center
Yun-Hua Fan	MPH, 2006-2007	Risk factors and esophageal cancer	Research Associate, University of Minnesota
Kristin A. Moy	MPH, 2006-2007	Isothiocyanates, glutathione <i>S</i> -transferase M1, T1 and P1 polymorphisms and colorectal cancer risk	PhD, University of Minnesota
Shane Johnson	MPH 2007-2009	Coffee intake and risk of hepatocellular carcinoma in the Singapore Chinese Health Study	PhD, University of Minnesota
Kristin Moy	PhD, 2007-2011	Indole-3-carbinol and risk of lung cancer & breast cancer in humans	Postdoctoral fellow, NCI
Li Tao	PhD, 2009-2011	Impact of smoking and smoking cessation on cancer survivorship	Research Associate, Cancer Prevention Institute of California
Maki Inoue-Choi	PhD, 2009-2012	One-carbon metabolism and breast cancer	Postdoctoral fellow, NCI
Cheryl Ainslie	PhD, 2009 – 2014	Dietary factors for gastric cancer in the Singapore Chinese Health Study	Postdoctoral fellow, NCI
Hamed Samavat	2009-present	Green tea intake and changes in risk biomarkers of breast cancer risk	PhD candidate
Ling Xu	MS, 2010-2013	Urinary levels of n-nitroso-compounds in relation to risk of gastric cancer	PhD, Florida International University, Miami, FL

#### **d. Service on Masters or Doctoral Committees**

<b>Dates Served</b>	<b>Name of Student</b>	<b>Degree Awarded</b>	<b>Title of Dissertation/Essay</b>
2001-2002	Nicolaus Tao	MS	Epidemiological features of alcoholic liver disease in Los Angeles County, California
2002-2003	Hui-Yun Wu	MPH	Dietary antioxidants and progression of atherosclerosis: the Los Angeles Atherosclerosis Study
2003-2004	Xue-Juan Jiang	MPH	Passive cigarette smoking and bladder cancer risk
2003-2005	Wan-Hua Tsong	MPH	Cigarettes and alcohol in relation to risk of colorectal cancer in Chinese and Singapore.
2009-2010	Lindsay Almquist	MPH	CYP1A2 genotype in relation to CYP1A2 phenotype and bladder cancer risk in Shanghai
2009-2010	Sarah Oppeneer	MS	Impact of GGH and FPGS SNPs on plasma folate and homocysteine levels
2009-2010	David Wilson	MPH	Tuberculosis (TB) in Minnesota: determinants of completion of therapy (COT) in US-born and foreign-born cases
2009-2010	Katarine Grande	MPH	An evaluation of the sensitivity and specificity of the CDC/CSTE acute viral hepatitis case definitions
2009-2011	Zhenhua Yu	MS	Role of selection bias in pancreatic cancer case-control studies
2010-2011	Vy T. Nguyen	MPH	Characteristics of hepatitis B carriers in Minnesota: Re-focusing health prevention resources
2013-2014	Travis Bui-Kemke	PhD	Aflatoxin Regulations and Global Pistachio Trade: Social Network Insights
2009-present	Hamed Samavat	PhD candidate	Green tea intake and changes in risk biomarkers of breast cancer risk

#### **e. Service on Comprehensive or Qualifying Examination Committees**

2013-2015	Trang VoPham	PhD student	Geospatial analysis of pesticides and hepatocellular carcinoma in California: A population based case-control study of the SEER-Medicare Database
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#### **f. Supervision of Post-Doctoral Students, Residents, and Fellows**

<b>Dates Supervised</b>	<b>Name of Student</b>	<b>Position of Student</b>
1999-2002	Manuela Gago-Dominguez	Associate Professor, University de Santiago de Compostela, Spain
1999-2002	J. Esteban Castelao	Associate Professor, University de Santiago de Compostela, Spain
2001	Yong-Bing Xiang	Professor and Associate Director for Research, Shanghai Cancer Institute
2001-2002	Wen-Bo Du	Research Associate, University of Southern California
2002-2003	Woon-Puay Koh	Associate Professor, National University of Singapore
2005-2006	Can-Lan Sun	Associate Professor, City of Hope National Medical Center
2006	Jeppe T. Friberg	Research fellow, Statens Serum Institute, Denmark
2010-2011	Anna E. Prizment	Post-doctoral fellow, University of Minnesota
2013	Koushik Chattopadhyay	Post-doctoral trainee
2013-present	Li Yang	Post-doctoral trainee
2014	Bei Yan	Visiting scholar and research trainee
2014-2015	Lei Quan	Post-doctoral associate
2015	Tiffany Polanco-Katz	Post-doctoral trainee (T32 CA186783)
2015	Marie Pouquet	Visiting scholar and research trainee

#### **g. Mentoring of Graduate Students in Field Placements**

Not Applicable

#### **h. Other Teaching and Training (Advising to Junior Faculty)**

<b>Dates</b>	<b>Teaching Activity</b>	<b>Program/Description</b>
2009-2011	Sabrina Peterson, PhD Assistant Professor	Department of Food Science and Nutrition, University of Minnesota
2010-2011	Bharat Thyagarajan, MD Assistant Professor	Lab Medicine/Pathology Department, Medical School, University of Minnesota

## **2. Research and Training**

### **a. Current Grants and Contracts Received**

#### **Principal Investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Annual Total Direct Costs</b>	<b>% Effort</b>
07/01/2009-06/30/2015	R01 CA129534 Biomarkers of NNK in Prediction of Lung Cancer Development in Smokers	NIH/NCI	\$403,286	1.8 calendar months
01/15/2010-12/31/2015	R01 CA144034 Prospective Studies of Cancer Etiology and Prevention in Shanghai and Singapore	NIH/NCI	\$1,158,951	3.6 calendar months
07/01/2014-06/30/2019	T32 CA186873-01 Research Training in Cancer Etiology and Prevention	NIH/NCI	\$125,801	0.6 calendar months
10/01/14-09/30/2019	UM1CA182876-01 The Cancer Epidemiology Cohorts in Singapore and Shanghai	NIH/NCI	\$697,713	2.40 calendar months

#### **Co-Principal Investigator/Sub-contract PI/Program Leader**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs</b>	<b>% Effort</b>
07/01/2012-06/30/2015	1 R01 CA160746 (Butler) Urinary Metalloproteinases and Breast Cancer Risk in a Prospective Cohort	NIH/NCI	\$1,629,916	0.6 calendar months
07/01/2013-06/30/2015	Polyoma Virus Infection and Lung Cancer in Nonsmokers	NIH/NCI MSSM-Sub	\$16,643 (UPitt)	0.2 cal months
09/10/1997-07/31/2015	P30 CA047904 (Davidson) Cancer Center Support Grant (Associate Director & Program Co-Leader)	NIH/NCI	\$49,140	1.8 calendar months

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs</b>	<b>% Effort</b>
09/23/2011-08/31/2015	U01 CA155340 (Brennan) One-carbon Metabolism Biomarkers and Lung Cancer Risk	NCI/ International Agency for Research on Cancer (IARC Sub)	\$79,865 (Pitt only)	0.6 calendar months
07/01/2013-06/30/2016	An Integrated Study of Mitochondrial Pathway in Colorectal Cancer	NIH/NCI UMN-Sub	\$85,940 (UPitt only)	1.2 cal months

### **Submitted Grant Support**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs (all)</b>	<b>% Effort</b>
10/01/2014-09/30/2019	Biomarkers of choline, vitamin B6 and oxidative status and liver cancer risk	NIH/NCI	\$2,995,105	0.6 cal months
12/01/2015-11/30/2019	An Integrated Study of Exposure and Response Biomarkers in Lung Cancer Etiology (R01)	NIH/NCI	\$1,962,879	2.0 cal months

### **Prior Grant Support**

#### **Principal Investigator**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs</b>
03/01/2003-02/29/2004	Risk Factors for Alcoholic Liver Disease (Pilot project)	University of Southern California (USC)/Center for Alcoholic Liver and Pancreatic Injury	\$20,000
07/01/2007-06/30/2008	Biomarkers of NNK and PAH in Relation to Lung Cancer Risk	Minnesota Medical Foundation (MMF)	\$30,000
07/01/2002-06/30/2009	R01 CA043092 Dietary Factors in the Etiology of Cancer in Shanghai	NIH/NCI	\$2,832,895



<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs</b>
04/01/2004-02/28/2010	R01 CA098497 Dietary Factors in the Etiology of Colorectal Cancer	NIH/NCI	\$1,025,000
07/01/2006-05/31/2010	R01 CA114665 Genetic & Environmental Risk Factors for Bladder Cancer	NIH/USC [Subcontract to University of Southern California; PI, Pike]	\$594,156 [to University of Minnesota]
[Note: Dr. Yuan was PI of the original grant application to NIH.]	[The awarded grant remained at USC after Dr. Yuan relocated to the University of Minnesota.]		
08/01/2005-06/30/2010	R01 CA080205 The Singapore Cohort Study of Diet and Cancer	NIH/NCI	\$1,182,974
09/30/2009-06/30/2010	R01 CA080205-10S1 The Singapore Cohort Study of Diet and Cancer (Supplemental grant)	NIH/NCI	\$108,268
09/15/2008-08/27/2010	HHSN261200800665P & HHSN261200900679P Upper Gastrointestinal (UGI) Cancer Genome-Wide Association Study (GWAS)	NIH/DHHS	\$51,240
08/01/2007-05/31/2011	R01 CA127435 Prospective Evaluation of IGF and IL-6 Dysregulation and Myeloma	NIH/Wash U (Subcontract to Washington University)	\$77,296 (to Univ. of Minnesota)
09/10/12-03/10/13	HHSN261201200436P Nested Case-Control Study of Lymphoma in Asian Cohorts	NIH/NCI	\$14,800
09/23/2008-07/31/2013	R01 CA127236 (Kurzer) Green Tea and Reduction of Breast Cancer Risk	NIH/NCI UMN Sub	\$74,819 (Pitt only)

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs</b>
03/01/2009-02/28/2014	T32 CA132670 Research Training Program in Nutrition and Cancer [The training grant remained at the University of Minnesota after Dr. Yuan relocated to University of Pittsburgh in Oct. 2011]	NIH/NCI	\$1,749,921
03/01/2009-02/28/2014	R01 DK080720 (Pereira) Genetic and Environmental Determinants of Type 2 Diabetes in Chinese Singaporeans	NIH/NIDDK UMN Sub	\$59,369 (Pitt only)
04/01/2008-02/28/2014	R01 CA122244 Randomized Trial of PEITC as a Modifier of NNK Metabolism in Smokers	NIH/NCI	\$2,008,285
12/1/2012-11/30/2014	R03 CA172944 (Butler) Metalloproteinases and Ovarian Cancer Risk in a Prospective Cohort	NCI	\$183,315

**Co-Principal Investigator/Sub-contract PI/Program Leader**

<b>Years Inclusive</b>	<b>Grant and/or Contract Number and Title</b>	<b>Source</b>	<b>Total Direct Costs</b>
04/01/1996-06/30/2002	R01 CA043092 Dietary Factors in the Etiology of Cancer in Shanghai	NIH/NCI	\$2,512,036
04/01/1987-03/31/1992	R01 CA043092 A Cohort Study of Dietary Factors in the Etiology of Cancer in Shanghai	NIH/NCI (PI, Ross)	\$1,248,712
04/01/1992-03/31/1996	R01 CA043092 Dietary Factors in the Etiology of Cancer in Shanghai	NIH/NCI (PI, Ross)	\$1,535,724

5/01/1995- 4/30/1999	R01 CA065726 Genetic & Environmental Risk Factors for Bladder Cancer	NIH/NCI  (PI, Ross)	\$1,555,537
02/01/2001- 01/31/2003	P50 AA011999 (Suppl) Epidemiologic Study of Alcoholic Liver Disease	NIH/NIAAA (PI, Tsukamoto)	\$226,320
07/01/2000- 06/30/2005	R01 CA080205 The Singapore Cohort Study of Diet and Cancer	NIH/NCI  (PI, Yu)	\$4,216,199
09/01/2007- 10/31/2008	290-02-0009 Task Order #6 Management of Chronic Hepatitis B	AHRQ (PIs, Kane and Wilt)	\$200,669
10/01/2005- 09/30/2009	R-186-001-068-305 A Prospective Study of Antioxidant Biomarkers in the Etiology of Coronary Heart Disease	Singapore Biomedical Research Council (BMRC) (PI: Ong)	\$435,520

**b. Other Research and Training Activities**                      Not applicable

**c. Invited Lectureships and Major Seminars Related to Your Research**

1.     **Yuan J-M.** “Why are we seeing the rising incidence of liver cancer in the United States?” Seminar presentation at the Cancer Epidemiology Interest Group, University of Minnesota, Minneapolis, August 18, 2006.
2.     **Yuan J-M.** “Etiology of hepatocellular carcinoma – knowns and unknowns”. Seminar presentation at the Minnesota VA Hospital Clinic Research Program, November 16, 2006.
3.     **Yuan J-M.** “Bladder cancer – A model disease for investigating genetic and environmental effect”. Seminar presentation at the Division of Biostatistics, School of Public Health, University of Minnesota, March 26, 2008.
4.     **Yuan J-M.** “The role of PEITC in the prevention of lung cancer in smokers”. Seminar presentation at the Carcinogenesis and Chemoprevention Program, the Masonic Cancer Center, University of Minnesota, May 22, 2008.
5.     **Yuan J-M.** “Development of PEITC as a chemopreventive agent against lung carcinogenesis in smokers”. Seminar presentation at the Cancer Epidemiology Interest Group, University of Minnesota, August 15, 2008.
6.     **Yuan J-M.** “Risk determinants of lung cancer in smokers”. Seminar presentation at the Department of Epidemiology and Public Health, National University of Singapore, March 25, 2009.

7. **Yuan J-M.** “Etiology of hepatocellular carcinoma – what we have learnt from epidemiological studies”. Seminar presentation at the Gastrointestinal (GI) Cancer Program, the MD Anderson Cancer Center, Houston, TX, July 23, 2009.
8. **Yuan J-M.** “Isothiocyanates and cancer prevention – are we ready to move forward from observational studies to large clinical trials”. Seminar Presentation at the 1st International Conference on the Natural Compounds in Cancer Prevention and Treatment, Smolenice Castle, Slovakia, October 14, 2009.
9. **Yuan J-M.** “What epidemiology can tell us about cancer prevention”. Seminar Presentation at The Cancer Prevention and Control: Novel Approaches. The University of Minnesota Masonic Cancer Center Retreat, Minnesota, October 30, 2009.
10. **Yuan J-M.** “Dietary chemopreventive agents – Findings from the Shanghai and Singapore Cohort Studies”. Seminar Presentation at the Epidemiology and Genetics Research Program (EGRP), Division of Cancer Control and Population Sciences (DCCPS), National Cancer Institute, Rockville, MD, March 15, 2010.
11. **Yuan J-M.** “Development of PEITC as a chemopreventive agent against lung carcinogenesis in smokers”. Seminar Presentation at the Lombardi Cancer Center, Georgetown University, Washington, DC, April 16, 2010.
12. **Yuan J-M.** “Environmental factors and risk for hepatocellular carcinoma”. Seminar presentation at the Laboratory of Human Carcinogenesis, National Cancer Institute, Rockville, MD, May 14, 2010.
13. **Yuan J-M.** “Asian-American risk for liver cancer”. Seminar presentation at the Conference of Minnesota Nurses Association, Minneapolis, MN, November 12, 2010.
14. **Yuan J-M.** “Arylamines, genetic polymorphisms, and bladder cancer risk”. Seminar Presentation at the Lombardi Cancer Center, Georgetown University, Washington, DC, January 12, 2011.
15. **Yuan J-M.** “Environmental and genetic risk factors for bladder cancer”. Seminar Presentation at Division of Epidemiology and Community Health, University of Minnesota, Minneapolis, Minnesota, January 21, 2011.
16. **Yuan J-M.** “Biomarkers of exposure for research on cancer etiology and prevention”. Seminar Presentation at the University of Pittsburgh Cancer Institute, Pittsburgh, Pennsylvania, April 25, 2011.
17. **Yuan J-M.** “Hepatitis B and liver cancer in Asian-Americans”. Seminar Presentation at the Third Annual Asian Health Lecture Series: Addressing Asian Health in Minnesota. Blue Cross and Blue Shield of Minnesota, Saint Paul, Minnesota, May 25, 2011.
18. **Yuan J-M.** “Dietary compounds as potential chemopreventive agents against lung cancer”. Seminar Presentation at Department of Epidemiology, The University of Texas M.D. Anderson Cancer Center, Houston, Texas, June 2, 2011.

19. **Yuan J-M.** “Genetically determined factors and bladder cancer risk.” Seminar Presentation at the Department of Human Genetics, The University of Pittsburgh, Pittsburgh, PA, January 13, 2012.
20. **Yuan J-M.** “Do urinary metabolites of cigarette smoke constituents improve the risk of prediction for lung cancer?” Seminary presentation at the Lung and Thoracic Malignancies Program Meetings, The University of Pittsburgh Cancer Institute, Pittsburgh, PA, January 17, 2012.
21. **Yuan J-M.** “Bladder cancer: A disease caused by occupational and other environmental exposures and genetic mutations.” Seminar Presentation at the Department of Environmental and Occupational Health, The University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA, February 2, 2012.
22. **Yuan J-M.** “The Shanghai and Singapore Cohort Studies: Longitudinal studies of environmental exposures and genetic factors for cancer and other chronic diseases.” Seminar Presentation at the Department of Epidemiology, Spring Term Epidemiology series, The University of Pittsburgh, Pittsburgh, PA, March 1, 2012.
23. **Yuan J-M.** “Are epidemiological studies informative for primary cancer prevention?” Seminar Presentation at *New Challenges & Opportunities*, The University of Pittsburgh Cancer Institute Satellite Conference, Greensburg, PA, June 20, 2012.
24. **Yuan J-M.** “Role for Tea in Chemoprevention: Observational Evidence.” Seminar Presentation at The 5<sup>th</sup> International Scientific Symposium on Tea & Human Health, Washington, DC, September 19, 2012.
25. **Yuan J-M.** “Is Cancer Preventable?” First Singapore International Public Health Conference, Academy of Medicine Singapore, Singapore, October 1, 2012.
26. **Yuan J-M.** “Urinary Biomarkers Predict Risk of Lung Cancer Among Never Smokers” UPCI Basic & Translational Research Seminar Series, University of Pittsburgh, Pittsburgh, PA, November 27, 2012.
27. **Yuan J-M.** “The Adverse Impact of Continued Smoking After Cancer Diagnosis on the Prognosis of Cancer Patients – Recent Results from the Shanghai Cohort Study” First Sino-US Tobacco Control Forum for Cancer Institutions, National Cancer Center (NCC), China, and National Cancer Institute (NCI), USA, Beijing, China, March 17, 2013.
28. **Yuan J-M.** “Modifying Effect of Genetic Factors on Tobacco Carcinogen Metabolism and Lung Cancer Risk.” Seminar Presentation at the Human Genetics Fall Seminar Series, University of Pittsburgh, Pittsburgh, PA, November 1, 2013.
29. **Yuan J-M.** “Impact of Host Susceptibility Factors on Tobacco Carcinogen Metabolism and Lung Cancer Risk.” University of Hawaii Cancer Center Gene Environment

Interaction in Human Cancer Development Workshop, University of Hawaii, Isle of Oahu, September 23-24, 2013.

30. **Yuan J-M.** “Impact of *CYP2A6* genetic polymorphisms on nicotine uptake and metabolism, and lung cancer risk”. Seminar Presentation at the Fall Term seminar series, School of Pharmacy, University of Pittsburgh, December 2, 2014.
31. **Yuan J-M.** “Current Research in Epidemiology and Prevention for Lung Cancer”. Seminar Presentation at the Department of Epidemiology Spring term seminar series, Graduate School of Public Health, University of Pittsburgh, January 15, 2015.
32. **Yuan J-M.** “Tobacco Smoke Constituents and Metabolic Genes in Relation to Lung Cancer”. Seminar Presentation at the School of Public Health, the Fourth Military Medical University, Xi’an, China, April 7, 2015.

## **PUBLICATIONS**

### **1. Refereed Articles**

1. **Yuan J-M,** Yu MC, Ross RK, Gao Y-T, Henderson BE. Risk factors for breast cancer in Chinese women in Shanghai. *Cancer Res* 48:1949-1953, 1988.
2. Shu X-O, Brinton LA, Gao Y-T, **Yuan J-M.** Population-based case-control study of ovarian cancer in Shanghai. *Cancer Res* 49:3670-3674, 1989.
3. Shu X-O, Gao Y-T, **Yuan J-M,** Zeigler RG, Brinton LA. Dietary factors and epithelial ovarian cancer. *Br J Cancer* 59:92-96, 1989. [PMC2246960]
4. Bernstein L, **Yuan J-M,** Ross RK, Pike MC, Hanisch R, Lobo R, Stanczyk F, Gao Y-T, Henderson BE. Serum hormone levels in premenopausal Chinese women in Shanghai and white women in Los Angeles: results from two breast cancer case-control studies. *Cancer Causes Control* 1:51-58, 1990.
5. Howe GR, Hirohata T, Hislop TG, Iscovich JM, **Yuan J-M,** Katsouyanni K, Lubin F, Marubini E, Modan B, Rohan T, Toniolo P, Yu S-Z. Dietary factors and risk of breast cancer: combined analysis of 12 case-control studies. *J Natl Cancer Inst* 82:561-569, 1990.
6. Ross RK, **Yuan J-M,** Yu MC, Wogan GN, Qian G-S, Tu J-T, Groopman JD, Gao Y-T, Henderson BE. Urinary aflatoxin biomarkers and risk of hepatocellular carcinoma. *Lancet* 339:943-946, 1992.
7. Qian G-S, Ross RK, Yu MC, **Yuan J-M,** Gao Y-T, Henderson BE, Wogan GN, Groopman JD. A follow-up study of urinary markers of aflatoxin exposure and liver cancer risk in Shanghai, People's Republic of China. *Cancer Epidemiol Biomarkers Prev* 3:3-10, 1994. [NIHMS85618]

8. **Yuan J-M**, Wang Q-S, Ross RK, Henderson BE, Yu MC. Diet and breast cancer in Shanghai and Tianjin, China. *Br J Cancer* 71:1353-1358, 1995. [PMC2033828]
9. **Yuan J-M**, Ross RK, Stanczyk FZ, Govindarajan S, Gao Y-T, Henderson BE, Yu MC. A cohort study of serum testosterone and hepatocellular carcinoma in Shanghai, China. *Int J Cancer* 63:491-493, 1995. [NIHMS85617]
10. **Yuan J-M**, Ross RK, Wang X-L, Gao Y-T, Henderson BE, Yu MC. Morbidity and mortality in relation to cigarette smoking: a prospective male cohort study in Shanghai, China. *JAMA* 275:1646-1650, 1996. [NIHMS85620]
11. **Yuan J-M**, Govindarajan S, Henderson BE, Yu MC. Low prevalence of hepatitis C infection in hepatocellular carcinoma (HCC) cases and population controls in Guangxi, a hyperendemic region for HCC in the People's Republic of China. *Br J Cancer* 74:491-493, 1996. [PMC2074655]
12. Webb PM, Yu MC, Forman D, Henderson BE, Newell DG, **Yuan J-M**, Gao Y-T, Ross RK. An apparent lack of association between *Helicobacter pylori* infection and risk of gastric cancer in China. *Int J Cancer* 67:603-607, 1996. [NIHMS85621]
13. Collaborative Group on Hormonal Factors in Breast Cancer. Breast cancer and hormonal contraceptives: collaborative reanalysis of individual data on 53 297 women with breast cancer and 100 239 women without breast cancer from 54 epidemiological studies. *Lancet* 347:1713-1727, 1996.
14. **Yuan J-M**, Ross RK, Gao Y-T, Henderson BE, Yu MC. Follow up study of moderate alcohol intake and mortality among middle aged men in Shanghai, China. *BMJ* 314:18-23, 1997. [PMC2125578]
15. Yu MC, **Yuan J-M**, Ross RK, Govindarajan S. Presence of antibodies to the hepatitis B surface antigen is associated with an excess risk of hepatocellular carcinoma among non-Asians in Los Angeles County, California. *Hepatology* 25:226-228, 1997.
16. Ross RK, **Yuan J-M**, Henderson BE, Park J, Gao Y-T, Yu MC. Prospective evaluation of dietary and other predictors of fatal stroke in Shanghai, China. *Circulation* 96:50-55, 1997. [NIHMS85623]
17. Collaborative Group on Hormonal Factors in Breast Cancer. Breast cancer and hormone replacement therapy: collaborative reanalysis of data from 51 epidemiological studies of 52 705 women with breast cancer and 108 411 women without breast cancer. *Lancet* 350:1047-1059, 1997.
18. **Yuan J-M**, Castelao JE, Gago-Dominguez M, Yu MC, Ross RK. Tobacco use in relation to renal cell carcinoma. *Cancer Epidemiol Biomarkers Prev* 7:429-433, 1998.

19. **Yuan J-M**, Castelao JE, Gago-Dominguez M, Ross RK, Yu MC. Hypertension, obesity, and their medications in relation to renal cell carcinoma. *Br J Cancer* 77:1508-1513, 1998. [PMC2150191]
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53. **Yuan J-M**, Knezevich AD, Wang R, Gao Y-T, Hecht SS, Stepanov I. Urinary levels of the tobacco-specific carcinogen N'-nitrosonornicotine and its glucuronide are strongly associated with esophageal cancer risk in smokers in the Shanghai Cohort Study. AACR Meeting Abstract #4652, April 2011.
54. Murphy SE, Zinggeler Berg J, Wang R, Wickham KM, Gao Y-T, Hecht SS, **Yuan J-M**. Relationship of nicotine and carcinogen biomarkers to lung cancer risk among smokers in the Shanghai cohort study. AACR Meeting Abstract #4656, April 2011.
55. **Yuan J-M**, Gao Y-T, Carmella SG, Wang R, Chen M, Hecht SS. Urinary levels of volatile organic carcinogens and toxicant biomarkers in relation to lung cancer development in both smokers and nonsmokers – the Shanghai Cohort Study. 10<sup>th</sup> Annual Frontiers in Cancer Prevention Research, Boston, MA, October 22-25, 2011.
56. Thyagarajan B, Wang R, Barcelo H, Koh W-P, **Yuan J-M**. Mitochondrial copy number is associated with colorectal cancer risk. American Association for Cancer Research, Chicago, IL March 31 – April 4, 2012.

57. Butler LM, Montague JA, Koh W-P, Wang R, Yu MC, **Yuan J-M**. Fish intake and lung cancer risk among Singapore Chinese. American Association for Cancer Research, Chicago, IL March 31 – April 4, 2012.
58. Inoue-Choi M, Nelson HH, Robien K, Arning E, Bottiglieri T, Koh W-P, **Yuan J-M**. Plasma S-adenosylmethionine levels, genetic polymorphisms of DNMT1 and DNMT3A, and LINE-1 DNA methylation among Chinese in Singapore. American Association for Cancer Research, Chicago, IL March 31 – April 4, 2012.
59. Knezevich A, **Yuan J-M**, Carmella S, Hatsukami D, Hecht SS, Stepanov I. Evaluation of toxicant exposure in US smokers after short-term switching to commercial low-nitrosamine cigarettes. American Association for Cancer Research, Chicago, IL March 31 – April 4, 2012.
60. Koh W-P, Dai Z, Jin A, **Yuan J-M**. Carotenoid intake and risk of hip fracture in the Singapore Chinese Health Study. International Symposium on Osteoporosis, Orlando, FL, April 25-28, 2012.
61. Dai Z, Koh W-P, Jin A, **Yuan J-M**. Dietary B-vitamin intake and risk of hip fracture in The Singapore Chinese Health Study. International Symposium on Osteoporosis, Orlando, FL, April 25-28, 2012.
62. Friberg J, **Yuan J-M**, Koh W-P, Wang R, Ha CS, Melbye M, Yu M. Smoking and presence of Epstein-Barr virus IgA antibodies (a marker for nasopharyngeal carcinoma) in health Singapore Chinese. European Society for Radiotherapy and Oncology, Barcelona, Spain, May 9-13, 2012.
63. Teng GG, Tan C-S, Santosa A, **Yuan J-M**, Koh W-P. Consumption of green tea and alcohol, and serum urate levels: The Singapore Chinese Health Study. European League Against Rheumatism (EULAR), Berlin, Germany, June 6-9, 2012.
64. Anderson NJ, Mueller NT, Odegaard AO, Pankow JS, Gross MD, Koh W-P, **Yuan J-M**, Pereira MA. Parity and type 2 diabetes in Chinese Singaporean women. American Diabetes Association 72<sup>nd</sup> Scientific Session, Philadelphia, PA, June 8-12, 2012.
65. Prizment AE, Nelson HH, Thyagarajan B, Eckfeldt JH, **Yuan J-M**, Folsom AR, Rao S. Discovery of serum biomarkers for eosinophil count. Society for Epidemiological Research, Minneapolis, MN, June 27-30, 2012.
66. Bancks MP, Odegaard AO, Gross MD, Koh W-P, **Yuan J-M**, Pereira MA. Low and high glycated hemoglobin predicts mortality in Chinese without known diabetes. Society for Epidemiological Research, Minneapolis, MN, June 27-30, 2012.
67. **Yuan J-M**, Gao Y-T, Murphy S, Carmella SG, Wang R, Nelson HH, Hecht SS. “Urinary Biomarkers of Polycyclic Aromatic Hydrocarbon and Volatile Organic Carcinogens in Relation to Lung Cancer Development in Lifelong Never Smokers – The

- Shanghai Cohort Study.” American Association for Cancer Research. Washington, DC, April 6-10, 2013.
68. Thyagarajan B, Wang R, Barcelo H, Nelson HH, Koh W-P, **Yuan J-M**. Mitochondrial copy number is associated with breast cancer risk. American Association for Cancer Research, Washington, DC, April 6-10, 2013.
  69. Fung C, Trent K, Joyce S, Zhou P, Nukui T, Weeks DE, Diergaarde B, Ye Y, Wu X, **Yuan J-M**, Grandis J, Weissfeld JL, Romkes M, Egloff AM. Identification of epidermal growth factor receptor (EGFR) polymorphisms that modify risk for squamous cell carcinoma of the head and neck (HNSCC). American Association for Cancer Research, Washington, DC, April 6-10, 2013.
  70. Butler LM, Arning E, Wang R, Bottiglieri T, Gao Y-T, **Yuan J-M**. Pre-diagnostic levels of serum one-carbon metabolism biomarkers and risk of hepatocellular carcinoma. American Association for Cancer Research, Washington, DC, April 6-10, 2013.
  71. Dueker D, Gao M, Jiang X, Stern MC, **Yuan J-M**, Pike MC, Conti DV, Cortessis VK. Further Observation of Increasing Strength of the Smoking-Bladder Cancer Association: The Los Angeles Bladder Cancer Study. American Association for Cancer Research, Washington, DC, April 6-10, 2013.
  72. **Yuan J-M**, Butler LM, Gao Y-T, Murphy S, Carmella SG, Wang R, Nelson HH, Hecht SS. Urinary biomarkers of polycyclic aromatic hydrocarbon and volatile organic compounds in relation to lung cancer development in lifelong never smokers – The Shanghai Cohort Study. University of Pittsburgh Cancer Institute Scientific Retreat, Pittsburgh, PA, June 14, 2013.

## **8. Presentations**

1. **Yuan J-M**. “A prospective study of alcohol consumption and mortality among middle-aged men in Shanghai, China.” Poster presentation at the 29th Annual Meeting of the Society for Epidemiologic Research, Boston, MA, June 1996.
2. **Yuan J-M**. “Active and passive cigarette smoking in relation to nasopharyngeal carcinoma in Shanghai, China.” Poster presentation at the 88th Annual Meeting of the American Association for Cancer Research (AACR), San Diego, CA, April 1997.
3. **Yuan J-M**. “Cruciferous vegetables in relation to renal cell carcinoma.” Poster presentation at the 31st Annual Meeting of the Society for Epidemiologic Research, Chicago, IL, June 1998.
4. **Yuan J-M**. “Body weight and mortality: a prospective evaluation in a cohort of middle-aged men in China.” Poster presentation at the 31st Annual Meeting of the Society for Epidemiologic Research, Chicago, IL, June 1998.

5. **Yuan J-M.** “Consumption of fish and n-3 fatty acids in relation to myocardial infarction death among men in Shanghai, China.” Poster presentation at the 40th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, San Diego, CA, March 2000.
6. **Yuan J-M.** “Vitamin C and carotenoids protect against smoking-related bladder cancer.” Poster presentation at the 91st Annual Meeting of the American Association for Cancer Research (AACR), San Francisco, CA, April 2000.
7. **Yuan J-M.** “High prediagnostic levels of serum carotenoids and retinol in relation to low risk of lung cancer.” Poster presentation at the 92nd Annual Meeting of the American Association for Cancer Research (AACR), New Orleans, LA, March 26, 2001.
8. **Yuan J-M.** “Urinary tea polyphenols in relation to gastric and esophageal cancers: a prospective study of men in Shanghai, China.” Poster presentation at the 93<sup>rd</sup> Annual Meeting of the American Association for Cancer Research (AACR), San Francisco, CA, April 8, 2002.
9. **Yuan J-M.** “Intake of soyfoods and increased risk of bladder cancer: the Singapore Chinese Health Study.” Poster presentation at the 35th Annual Meeting of the Society for Epidemiologic Research, Palm Desert, CA, June 15, 2002.
10. **Yuan J-M.** “Green tea, ACE gene polymorphism, and breast cancer risk among Chinese women in Singapore.” Poster presentation at the 96<sup>th</sup> Annual Meeting of the American Association for Cancer Research (AACR), Anaheim, CA, April 18, 2005.
11. **Yuan J-M.** “Getting nosy about racial differences in nasopharyngeal cancers”. Oral presentation at the 15<sup>th</sup> Los Angeles Cancer Surveillance Program Educational Symposium, University of Southern California, Los Angeles, CA, May 2, 2005.
12. **Yuan J-M.** “Prediagnostic serum retinol level and reduced risk of hepatocellular carcinoma.” Oral presentation at the 97<sup>th</sup> Annual Meeting of the American Association for Cancer Research (AACR), Washington, DC, April 3, 2006.
13. **Yuan J-M.** “Tea polyphenols in relation to reduced risk of colon cancer: a prospective study of men in Shanghai, China.” Poster presentation at the 2006 Congress of Epidemiology, Seattle, WA, June 22, 2006.
14. **Yuan J-M.** “High susceptibility of lean smokers to lung cancer: findings from the Singapore Chinese Health Study.” Poster presentation at the 98<sup>th</sup> Annual Meeting of the American Association for Cancer Research (AACR), Los Angeles, CA, April 17, 2007.
15. **Yuan J-M.** “Genetic factors in relation to risk of bladder cancer – an update on the Los Angeles Study.” Oral presentation at the International Bladder Cancer Consortium Meeting, Barcelona, Spain, June 18, 2007.

16. **Yuan J-M.** “Genetic polymorphisms in the methylenetetrahydrofolate reductase and thymidylate synthase genes and risk of hepatocellular carcinoma.” Poster presentation at the 9<sup>th</sup> World Conference on Gastrointestinal Cancer, Barcelona, Spain, June 28, 2007.
17. **Yuan J-M.** “Genetic factors in relation to risk of bladder cancer – an update on the Los Angeles Study.” Oral presentation at the International Bladder Cancer Consortium Meeting, Barcelona, Spain, June 18, 2007.
18. **Yuan J-M.** “One-carbon metabolism pathway in relation to the development of hepatocellular carcinoma.” The National Cancer Institute (NCI) Cohort Consortium Meeting, Bethesda, MD, November 13, 2007.
33. **Yuan J-M.** “CYP1A2 phenotype and bladder cancer risk – The Shanghai Bladder Cancer Study”. Oral presentation at the 4<sup>th</sup> International Consortium of Bladder Cancer Meeting, MD Anderson Cancer Center, Houston, TX, December 2-3, 2010.
34. **Yuan J-M.** “Hepatitis B and liver cancer in Asian-Americans”. Oral Presentation at The Health Disparities Retreat, the University of Minnesota Masonic Cancer Center, Minneapolis, MN, January 6, 2011.
19. **Yuan J-M.** “Urinary levels of the tobacco-specific carcinogen N’-nitrosonornicotine and its glucuronide are strongly associated with esophageal cancer risk in smokers in the Shanghai Cohort Study.” Poster Presentation at the 102<sup>nd</sup> Annual Meeting of the American Association for Cancer Research (AACR), Orlando, Florida, April 5, 2011.
20. **Yuan J-M.** “Urinary levels of volatile organic carcinogens and toxicant biomarkers in relation to lung cancer development in both smokers and nonsmokers – the Shanghai Cohort Study.” The 10<sup>th</sup> Annual Frontiers in Cancer Prevention Research, Boston, MA, October 22-25, 2011.
21. **Yuan J-M.** “The Impact of Smoking Cessation after Cancer Diagnosis on Survival of Cancer Patients: Findings from the Shanghai Cohort Study.” Brain, Behavior and Cancer Seminar, University of Pittsburgh, Pittsburgh, PA, October 31, 2012.
22. **Yuan J-M.** “Urinary Biomarkers Predict Risk of Lung Cancer among Never Smokers.” UPCI Basic and Translational Seminar Series, University of Pittsburgh, Pittsburgh, PA, November 27, 2012.
23. **Yuan J-M.** “The Adverse Impact of Continued Smoking After Cancer Diagnosis on the Prognosis of Cancer Patients – Recent Results from the Shanghai Cohort Study.” Cancer Prevention, Biomarkers and Screening Research in China and the United States. Beijing, China, March 16-18, 2013.
24. **Yuan, J-M.** “Polycyclic Aromatic Hydrocarbon and Lung Cancer among Lifelong Never Smokers.” UPMC Development for The Pittsburgh Foundation, UPCI Executive Offices, Pittsburgh, PA, April 1, 2013.

25. **Yuan J-M.** “The Shanghai and Singapore Cohort Studies: Resources for Epidemiological and Behavioral Research.” University of Pittsburgh, Biobehavioral Medicine in Oncology Program. Pittsburgh, PA, April 4, 2013.
26. **Yuan J-M.** “Impact of Host Susceptibility Factors on Tobacco Carcinogen Metabolism and Lung Cancer Risk.” University of Hawaii Cancer Center Gene Environment Interaction in Human Cancer Development Workshop, University of Hawaii, Isle of Oahu, September 23-24, 2013.

## **9. Non-Print Media**

Not Applicable

## **10. Other Publications**

### **a. Letters to the Editor**

1. Ross RK, Yu MC, Henderson, **Yuan J-M**, Qian G-S, Tu J-T, Gao Y-T, Wogan GN, Groopman JD. Aflatoxin Biomarkers. *Lancet* 340:119, 1992.
2. **Yuan J-M**, Yu MC. Effect of obesity on plasma homocysteine. *Am J Clin Nutr* 74:558-559, 2001.
3. **Yuan J-M**, Yu MC, Ross RK. Re: Fish and shellfish consumption in relation to death from myocardial infarction among men in Shanghai, China. *Am J Epidemiol* 157:85-86, 2003.
4. Seow A, **Yuan J-M**, Koh W-P, Lee H-P, Yu MC. Re: Diabetes mellitus and risk of colorectal cancer in the Singapore Chinese Health Study. *J Natl Cancer Inst* 98:1019-1020, 2006.

## **SERVICE**

### **1. Service to School and University**

<b>Years</b>	<b>Committee</b>	<b>Position</b>
2006-2011	Epidemiology MPH Admission Committee (University of Minnesota)	Member
2006-2011	Epidemiology PhD Exam Committee, Part A (University of Minnesota)	Member
2006-2011	Epidemiology PhD Exam Committee, Part B (University of Minnesota)	Member
2007-2011	Executive Committee, the Minnesota Chemoprevention Consortium (MC2) (University of Minnesota)	Member



<b>Years</b>	<b>Committee</b>	<b>Position</b>
2008	Search Committee for Faculty in Research for Obesity Prevention (University of Minnesota)	Member
2008-2011	Epidemiology Curriculum Committee (University of Minnesota)	Member
2012-present	Search Committee for Faculty in Cancer Epidemiology (University of Pittsburgh)	Chair

## **2. Service to the Field of Scholarship**

### **a. Editorial Boards, Editorships**

<b>Date</b>	<b>Position</b>	<b>Organization</b>
2009-present	Editorial Board	International Journal of Molecular Epidemiology & Genetics
2010-present	Editorial Board	Current Biomarker Findings
2011-present	Associate Editor	Frontiers in Cancer Epidemiology and Prevention

### **b. Manuscript and Other Document/Publication Review**

<b>Journal Title</b>	<b>Dates</b>
American Journal of Clinical Nutrition	2002-
American Journal of Epidemiology	2001-
Annals of Epidemiology	2001-
BMC Cancer	2006-
BMJ (British Medical Journal)	2000-
Cancer Epidemiology, Biomarkers & Prevention	2001-
Cancer Letters	2001-
Cancer Prevention Research	2008-
Cancer Research	1999-
Carcinogenesis	2003-
Circulation	1999-
Clinical Cancer Research	2007-
Epidemiology	2009-
European Journal of Clinical Nutrition	2001-
International Journal of Cancer	2004-
International Journal of Epidemiology	2005-

<b>Journal Title</b>	<b>Dates</b>
JAMA (Journal of the American Medical Association)	2000-
Molecular Genetics and Metabolism	2010-
Nutrition and Cancer	2005-
PLoS One	2013-
Proceedings of the National Academy of Sciences (PNAS) USA	2011-

### **c. Study Sections, Review Panels, and Advisory Boards**

<b>Date</b>	<b>Position</b>	<b>Organization and Nature of Activity</b>
2009-2011	Reviewer	Special Emphasis Panel, P01s, National Cancer Institute
2002-2004	Reviewer (ad hoc)	Epidemiology and Disease Control (EDC)-2 Study Section, National Institutes of Health
2003	Reviewer (ad hoc)	Cancer and Environmental Epidemiology-BMRD Special Panel, National Institutes of Health
2006	Reviewer	Research and Development Service, Department of Veterans Affairs.
2008-2009	Reviewer (ad hoc)	Social Sciences and Population Studies R21s and R03s, National Institutes of Health
2005-2009	Member	Epidemiology of Cancer (EPIC) Study Section, National Institutes of Health
2009-2011	Reviewer	Special Emphasis Panel, P01s, National Cancer Institute
2013 July	Site-visit member	Site Visit Member, Nutritional Epidemiology Branch, National Cancer Institute, Bethesda, Maryland
2015-Present	External Advisory Committee Member	University of Hawaii Cancer Center, Honolulu, Hawaii

### **d. Leadership in Scholarly and Professional Organizations and Honorary Societies**

<b>Organization</b>	<b>Position</b>
<i>American Association for Cancer Research</i>	<i>Member</i>
<i>Society for Epidemiologic Research</i>	<i>Member</i>
<i>American Association for the Advancement of Science</i>	<i>Member</i>

### **3. Service for Practice and Policy-Making(including Consultant Roles)**

**a. Governmental Organizations**

Not applicable

**b. Non-Governmental and Community-Based Organizations**

<b>Date</b>	<b>Position</b>	<b>Type of Service and/or Organization</b>
2005	Reviewer	The 13 <sup>th</sup> TV3 Marato Call for Cancer, Fundacio La Marato de TV3, Barcelona, Spain
2005	Scientific Consultant	WCRF (World Cancer Research Fund) International Expert Report – Kidney Cancer
2008	Reviewer	Cancer Research UK Fellowship
2008	Invited guest speaker	Hepatitis B in Asian Communities, The Lao Cultural Center, Minneapolis, MN
2009-present	Scientific Consultant	Addressing Hepatitis B in Minnesota, Lao Community
2011, 2013	Scientific Consultant	World Cancer Research Fund (WCRF) International Expert Report – Kidney Cancer
2014	Reviewer	World Cancer Research Fund (WCRF) International Meeting, London, England

**4. Non-Professional Service**

Not Applicable

**5. Clinical and Related Activities (OPTIONAL - if applicable)**

**a. Outpatient: Patient Care**

Not Applicable

Supporting descriptive information (if applicable)

Not Applicable

**b. Inpatient: Patient Care**

Not Applicable

**c. Other Patient Care**

Not Applicable

Supporting descriptive information (if applicable)

Not Applicable

