



UNIVERSITY OF HAWAI'I

CANCER CENTER

**Cancer Epidemiology Program
Faculty Recruitment Seminar**

*Use of high-dimensional –omics data to identify novel
susceptibility genes and biomarkers for cancer risk*

**Monday, (July 23, 2018)
12:00 noon**



Lang Wu, Ph.D.

*Research Fellow
Division of Epidemiology
Vanderbilt University Medical Center
Nashville, Tennessee*

**University of Hawai'i Cancer Center
701 Ilalo Street
Sullivan Conference Center**

Light refreshments to follow

CURRICULUM VITAE

Lang Wu, Ph.D.
Research Instructor, Vanderbilt University Medical Center

ADDRESS

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EDUCATION

2015	Ph.D.	Clinical and Translational Science (Dissertation: Genetic epidemiological approaches to identify predisposition to human cancers, especially pancreatic cancer)	Mayo Graduate School, Mayo Clinic College of Medicine, Rochester, MN
2010	B.S.	Biological Sciences	Wuhan University, Wuhan, China

RESEARCH TRAINING EXPERIENCE

2015-2018 **Postdoctoral Research Fellow**
Vanderbilt Training Program in Molecular and Genetic Epidemiology of Cancer (2015-2017)
Division of Epidemiology, Vanderbilt University Medical Center, Nashville, TN
Mentors: Xiao-Ou Shu, M.D., Ph.D., Ingram Professor of Cancer Research
Wei Zheng, M.D., Ph.D., Anne Potter Wilson Professor of Medicine
Jirong Long, Ph.D., Associate Professor of Medicine
Expertise: • *Integration of genomics, transcriptomics, methylomics, proteomics & metabolomics data to identify susceptibility genes and biomarkers for cancer risk*
• *Cancer epidemiology – large prospective cohort settings*

2011-2015 **Graduate Student**
Department of Health Sciences Research, Mayo Clinic College of Medicine, Rochester, MN
Mentor: Gloria M. Petersen, Ph.D., Purvis and Roberta Tabor Professor
Expertise: Genetic epidemiology – genetic association studies and whole exome sequencing

2008-2010 **Undergraduate Research Assistant**
Departments of Biochemistry and Cell Biology, Wuhan University, Wuhan, China

ACADEMIC APPOINTMENTS

2018-present **Research Instructor**

Division of Epidemiology, Department of Medicine, Vanderbilt University Medical Center

RESEARCH INTERESTS

- Cancer Prevention, Risk Assessment, Risk Prediction and Early Detection
- Translational Research Integrating Multi-omics Data
- Genetic Epidemiology of Cancer
- Gene-Environment Interaction of Cancer
- Molecular Epidemiology of Cancer
- Nutritional Epidemiology and Cancer Epidemiology
- Assessing Risk Factors of Cancer Using Mendelian Randomization Studies, Pooled analyses and Meta-analysis Studies

AWARDS AND HONORS

Postdoctoral Awards and Honors

- 2018 Molecular Epidemiology Working Group (MEG) of the AACR Scholar-in-Training Award, 2018 AACR Annual Meeting, Chicago, IL
- 2018 Nomination for the Postdoctoral Fellow of the Year, Vanderbilt-Ingram Cancer Center, Vanderbilt University Medical Center, Nashville, TN
- 2017 Molecular Epidemiology Working Group (MEG) of the AACR Scholar-in-Training Award, 2017 AACR Annual Meeting, Washington, DC
- 2016 Semifinalist, ASHG/Charles J. Epstein Trainee Award for Excellence in Human Genetics Research
- 2016 **Finalist, NIH Director's Early Independence Award**, National Institute of Health
- 2016 Poster Presentation Award (First Place Prize), Vanderbilt-Ingram Cancer Center Annual Scientific Retreat, Vanderbilt University Medical Center, Nashville, TN
- 2015 **Institutional Nominee for the NIH Director's Early Independence Award Program**, Vanderbilt University, Nashville, TN

Predocctoral Awards and Honors

- 2013 AACR-Aflac, Inc. Scholar-in-Training Award, The Twelfth Annual International Conference on Frontiers in Cancer Prevention Research, National Harbor, MD
- 2013 Travel Award, 18th Summer Institute in Statistical Genetics, Seattle, WA
- 2013 Travel Award, 5th Summer Institute in Statistics and Modeling in Infectious Diseases, Seattle, WA
- 2012 Travel Award, 2nd Annual NIGMS-funded Short Course on Statistical Genetics & Genomics, Birmingham, AL

Undergraduate Awards and Honors

- 2010 Honor of Graduate, Wuhan University, Wuhan, China
- 2008 Merit Student Award, Wuhan University, Wuhan, China
- 2007-2009 Second-Class University-Wide Scholarship, Wuhan University, Wuhan, China
- 2006 Freshman Scholarship in Science, Wuhan University, Wuhan, China

ACADEMIC COMMITTEES

National Committees/Working Groups

- 2016- Member, COnsortium of METabolomics Studies (COMETS) Trainee Working Group

PROFESSIONAL MEMBERSHIPS

2017-	Molecular Epidemiology Working Group (MEG) of the AACR	Member
2013-	American Association of Cancer Research	Associate Member
2012-	American Society of Human Genetics	Member
2011-	American Association for the Advancement of Science	Member

REVIEWER FOR JOURNALS AND CONFERENCES

2017-	American Journal of Epidemiology	
2017-	Drug Safety	served twice
2015-	Journal of the National Cancer Institute	served 3 times
2015-	Diabetologia	served twice
2015-	Scientific Reports	served 4 times
2015-	BMJ Open	
2015-	Oncotarget	served 10 times
2015-	Stem Cells International	served 3 times
2014-	Annals of Internal Medicine	served 3 times
2014-	Cancer Epidemiology, Biomarkers & Prevention	served 3 times
2014-	The Journal of Clinical Endocrinology & Metabolism	
2014-	Annals of Nutrition and Metabolism	served 3 times
2014-	Journal of the European Academy of Dermatology and Venereology	
2014-	Gene	served 7 times
2014-	Infection	served twice
2014-	BMC Musculoskeletal Disorders	served twice
2014-	PLoS One	served 7 times
2014-	Medicine	served 28 times
2014-	OncoTargets and Therapy	
2014-	BioMed Research International	
2014-	Medical Science Monitor	served 21 times
2014-	Neural Regeneration Research	
2013-	Infection, Genetics and Evolution	served 3 times
2013-	Neurocomputing	
2013	The 3rd Annual Translational Bioinformatics Conference	

RESEARCH GRANT SUPPORT

Role:	Principal Investigator
Project:	Uncovering roles of polyunsaturated fatty acids in pancreatic cancer etiology
Period of support:	04/01/2018–03/31/2020
Funding source:	NCI (K99CA218892)
Total direct costs:	\$224,060
Objectives:	The proposed study aims to investigate the relationship between polyunsaturated fatty acids (PUFA) and pancreatic cancer risk in multi-ethnic groups using nutritional and molecular epidemiology designs, to characterize the causality of the association using a Mendelian randomization design primarily in Caucasians, and to identify the modifying genetic factors for the association between dietary PUFA and pancreatic cancer using a gene-diet interaction design. This grant is

also to transit the PI to become an independent investigator in cancer epidemiology.

PROFESSIONAL DEVELOPMENT/ADDITIONAL TRAINING

- 2017 Course of Bioinformatics I: Big Data in Biomedical Research
Course of Bioinformatics II: Discovery Oriented Data Science
Course of Biostatistics II: Advanced Biostatistics
4th Center for Quantitative Sciences Summer Institute
Vanderbilt University Medical Center, Nashville, TN
- 2016 6th Short Course on Next-Generation Sequencing: Technology & Statistical Methods
University of Alabama at Birmingham, Birmingham, AL
- 2016 4th Annual AACR Integrative Molecular Epidemiology Workshop, Boston, MA
- 2016 Professional Grant Development Workshop
Vanderbilt University, Nashville, TN
- 2016 Regression Modeling Strategies Short Course
Department of Biostatistics, Vanderbilt University Medical Center, Nashville, TN
- 2016 K99 Workshop
Vanderbilt Brain Institute, Vanderbilt University Medical Center, Nashville, TN
- 2016 K Grant Pacing Workshop
Vanderbilt Institute for Clinical and Translational Research
Vanderbilt University Medical Center, Nashville, TN
- 2015 Genetics in Grant Writing Course
Vanderbilt Genetics Institute, Vanderbilt University Medical Center, Nashville, TN
- 2013 Module of Introduction to Metagenomic Data Analysis
5th Summer Institute in Statistics and Modeling in Infectious Diseases
University of Washington, Seattle, WA
- 2013 Module of Elements of R for Genetics & Bioinformatics
18th Summer Institute in Statistical Genetics, University of Washington, Seattle, WA
- 2013 Computational Genomics Course
University of Illinois at Urbana-Champaign, Urbana, IL
- 2012 Module of High-Dimensional Omics Data
17th Summer Institute in Statistical Genetics, University of Washington, Seattle, WA
- 2012 2nd NIGMS-funded Short Course on Statistical Genetics & Genomics
University of Alabama at Birmingham, Birmingham, AL

TEACHING EXPERIENCE

Teaching Assistant

2009 fall Principles of Biochemistry Techniques, Wuhan University, Wuhan, China

PEER-REVIEWED JOURNAL PUBLICATIONS

Published or In Press:

1. **Wu L**, Shi W, Long J, Guo X, Michailidou K, Beesley J, Bolla MK, Shu XO, Al-Ejeh F, Rozali E, Wang Q, Lu Y, Cai Q, Dennis J, Li B, Zeng C, Feng H, Gusev A, Barfield RT, Andrulis IL, Anton-Culver H, Arndt V, Aronson KJ, Auer PL, Barrdahl M, Baynes C, Beckmann MW, Benitez J, Bermisheva M, Blomqvist C, Bogdanova NV, Bojesen SE, Brauch H, Brenner H, Brinton L, Broberg P, Brucker SY, Burwinkel B, Caldés T, Canzian F, Carter BD, Castela JE, Chang-Claude J, Chen X, Cheng TYD, Christiansen H, Clarke CL, NBCS Collaborators, Collée M, Cornelissen S, Couch FJ, Cox D, Cox A, Cross SS, Cunningham JM, Czene K, Daly MB, Devilee P, Doheny KF, Dörk T, dos-Santos-Silva I, Dumont M, Dwek M, Eccles DM, Eilber U, Eliassen AH, Engel C, Eriksson M, Fachal L, Fasching PA, Figueroa J, Flesch-Janys D, Fletcher O, Flyger H, Fritschi L, Gabrielson M, Gago-Dominguez M, Gapstur SM, García-Closas M, Gaudet MM, Ghoussaini M, Giles GG, Goldberg MS, Goldgar DE, González-Neira A, Guénel P, Hahnen E, Haiman CA, Håkansson N, Hall P, Hallberg E, Hamann U, Harrington P, Hein A, Hicks B, Hillemanns P, Hollestelle A, Hoover RN, Hopper JL, Huang G, Humphreys K, Hunter DJ, Jakubowska A, Janni W, John EM, Johnson N, Jones K, Jones ME, Kaaks R, Kerin MJ, Khusnutdinova E, Kosma VM, Kristensen VN, Lambrechts D, Marchand LL, Li J, Lindström S, Lissowska J, Lo WY, Loibl S, Lubinski J, Luccarini C, Lux MP, MacInnis RJ, Maishman T, Kostovska IM, Mannermaa A, Manson JE, Margolin S, Mavroudis D, Meijers-Heijboer H, Meindl A, Menon U, Meyer J, Mulligan AM, Neuhausen SL, Nevanlinna H, Neven P, Nielsen SF, Nordestgaard BG, Olopade OI, Olson JE, Olsson H, Peterlongo P, Peto J, Plaseska-Karanfilska D, Prentice R, Presneau N, Pylkäs K, Rack B, Radice P, Rahman N, Rennert G, Rennert HS, Rhenius V, Romero A, Romm J, Rudolph A, Saloustros E, Sandler DP, Sawyer EJ, Schmidt MK, Schmutzler RK, Schneeweiss A, Scott RJ, Scott C, Seal S, Shah M, Shrubsole MJ, Smeets A, Southey MC, Spinelli JJ, Stone J, Surowy H, Swerdlow AJ, Tamimi R, Tapper W, Taylor JA, Terry MB, Tessier DC, Thomas A, Thöne K, Tollenaar RA, Torres D, Truong T, Untch M, Vachon C, Berg DVD, Vincent D, Waisfisz Q, Weinberg CR, Wendt C, Whittemore AS, Wildiers H, Willett WC, Winqvist R, Wolk A, Xia L, Yang XR, Ziogas A, Ziv E, kConFab/AOCS Investigators, Dunning AM, Pharoah PDP, Simard J, Milne RL, Edwards SL, Kraft P, Easton D, Chenevix-Trench G, Zheng W. A transcriptome-wide association study of 229,000 women identifies new candidate susceptibility genes for breast cancer. *Nat Genet*. Accepted
2. Shi J*, **Wu L***, Li B, Lu Y, Guo X, Cai Q, Long J, Wen W, Zheng W, Shu XO. Transcriptome-wide association study identifies susceptibility loci and genes for age at natural menopause. *Reprod Sci*. Accepted (* joint first authors)
3. Barfield R, Feng H, Gusev A, **Wu L**, Zheng W, Pasaniuc B, Kraft P. Assessing the genetic effect mediated through gene expression from summary eQTL and GWAS data. *Genet Epidemiol*. Accepted
4. McWilliams RR, Wieben ED, Chaffee KG, Antwi SO, Raskin L, Olopade OI, Li D, Highsmith WE, Colon-Otero G, Khanna LG, Permuth JB, Olson JE, Frucht H, Genkinger J, Zheng W, Blot WJ, **Wu L**, Almada LL, Fernandez-Zapico ME, Sicotte H, Pedersen KS, Petersen GM. CDKN2A Germline Rare Coding Variants and Risk of Pancreatic Cancer in Minority Populations. *Cancer Epidemiol Biomarkers Prev*. Accepted

5. **Wu L**, Zheng W, Xiang YB, Gao YT, Li HL, Cai H, Shu XO. Physical activity and pancreatic cancer risk among urban Chinese: Results from two prospective cohort studies. Cancer Epidemiol Biomarkers Prev. 2018 Apr;27(4):479-487. PMID: 29475964
6. Chen C, Ge S, Li S, **Wu L**, Liu T, Li C. The Effects of Dietary Calcium Supplements Alone or With Vitamin D on Cholesterol Metabolism: A Meta-Analysis of Randomized Controlled Trials. J Cardiovasc Nurs. 2017 Sep/Oct;32(5):496-506. PMID: 27870724
7. Ding YY, Yao P, **Wu L**, Han ZK, Hong T, Zhu YQ, Li HX. Body mass index and persistent pain after breast cancer surgery: findings from the women's healthy eating and living study and a meta-analysis. Oncotarget. 2017 Jun 27;8(26):43332-43343. PMID: 28574847. PMCID: PMC5522149
8. Hou R, Yao SS, Liu J, Wang LL, **Wu L**, Jiang L. Dietary n-3 polyunsaturated fatty acids, fish consumption, and endometrial cancer risk: a meta-analysis of epidemiological studies. Oncotarget. 2017 May 30;8(53):91684-91693. PMID: 29207677. PMCID: PMC5710957
9. Yi X*, **Wu L***, Liao D, Wang C, Zhang B. Interactions Among CYP2C8, EPHX2, and CYP4A11 Variants and CYP Plasma Metabolite Levels in Ischemic Stroke. J Atheroscler Thromb. 2016 Nov 1;23(11):1286-1293. PMID: 27087514. PMCID: PMC5065934 (* joint first authors)
10. Liu M, **Wu L**, Yao S. Dose-response association of screen time-based sedentary behaviour in children and adolescents and depression: a meta-analysis of observational studies. Br J Sports Med. 2016 Oct;50(20):1252-1258. PMID: 26552416. PMCID: PMC4977203
This study received several media reports from Reuters Health etc
11. Gao T*, **Wu L***, Chang F, Cao G. Low circulating ghrelin levels in women with polycystic ovary syndrome: a systematic review and meta-analysis. Endocr J. 2016;63(1):93-100. PMID: 26607017. PMCID: PMC4975374 (* joint first authors)
12. Yi X, Zhu J, Zhu X, Liu GJ#, **Wu L**#. Breastfeeding and thyroid cancer risk in women: a dose-response meta-analysis of epidemiological studies. Clin Nutr. 2016 Oct;35(5):1039-1046. PMID: 26732028. PMCID: PMC4912465 (# joint corresponding authors)
13. Yi X, Lin J, Zhou Q, **Wu L**, Chen W, Wang C. Clopidogrel Resistance Increases Rate of Recurrent Stroke and Other Vascular Events in Chinese Population. J Stroke Cerebrovasc Dis. 2016 May;25(5):1222-8. PMID: 26935114
14. Yi X*, Liao D*, **Wu L***, Chen H, Li J, Wang C. CYP Genetic Variants, CYP Metabolite Levels, and Symptomatic Carotid Stenosis in Ischemic Stroke Patients. J Atheroscler Thromb. 2016 May 2;23(5):621-31. PMID: 26686738. PMCID: PMC4973463 (* joint first authors)
15. Wu QJ, **Wu L**, Zheng LQ, Xu X, Ji C, Gong TT. Consumption of fruit and vegetables reduces risk of pancreatic cancer: evidence from epidemiological studies. Eur J Cancer Prev. 2016 May;25(3):196-205. PMID: 26075658
16. Zhu J, Zhu X, Tu C, Li YY, Qian KQ, Jiang C, Feng TB, Li C, Liu GJ#, **Wu L**#. Parity and thyroid cancer risk: a meta-analysis of epidemiological studies. Cancer Med. 2016 Apr;5(4):739-52. PMID: 26714593. PMCID: PMC4831293 (# joint corresponding authors)

17. Huang YH, Wu QJ, Li LL, Li D, Li J, Zhou C, **Wu L**, Zhu J, Gong TT. Different extent in decline of infant mortality by region and cause in Shenyang, China. Sci Rep. 2016 Apr 14;6:24527. PMID: 27075740. PMCID: PMC4830972
18. Li W, Liu YJ, Zhao XL, Shang SQ, **Wu L**, Ye Q, Xu H. Th1/Th2 Cytokine Profile and Its Diagnostic Value in Mycoplasma pneumoniae Pneumonia. Iran J Pediatr. 2016 Feb;26(1):e3807. PMID: 26848377. PMCID: PMC4733293
19. Liu GJ*, **Wu L***, Lin Wang S, Xu LL, Ying Chang L, Fu Wang Y. Efficacy of Pramipexole for the Treatment of Primary Restless Leg Syndrome: A Systematic Review and Meta-analysis of Randomized Clinical Trials. Clin Ther. 2016 Jan 1;38(1):162-179.e6. PMID: 26572941. PMCID: PMC4972503 (* joint first authors)
20. Liu GJ*, **Wu L***, Wang SL, Ding L, Xu LL, Wang YF, Chang LY. Incidence of Augmentation in Primary Restless Legs Syndrome Patients May Not Be That High: Evidence From A Systematic Review and Meta-Analysis. Medicine (Baltimore). 2016 Jan;95(2):e2504. PMID: 26765466. PMCID: PMC4718292 (* joint first authors)
21. Ba H, **Wu L**, Liu Z, Li C. An examination of the origin and evolution of additional tandem repeats in the mitochondrial DNA control region of Japanese sika deer (Cervus Nippon). Mitochondrial DNA A DNA Mapp Seq Anal. 2016;27(1):276-81. PMID: 24621225
22. Wei J, Liu CX, Gong TT, Wu QJ, **Wu L**. Cigarette smoking during pregnancy and preeclampsia risk: A systematic review and meta-analysis of prospective studies. Oncotarget. 2015 Dec 22;6(41):43667-78. PMID: 26498356. PMCID: PMC4791258
23. Wu QJ#, Tu C, Li YY, Zhu J, Qian KQ, Li WJ, **Wu L**#. Statin use and breast cancer survival and risk: a systematic review and meta-analysis. Oncotarget. 2015 Dec 15;6(40):42988-3004. PMID: 26472026. PMCID: PMC4767486 (# joint corresponding authors)
24. Wu XD, Tian X, Liu MM, **Wu L**, Zhao S, Zhao L. Meta-analysis comparing early versus delayed laparoscopic cholecystectomy for acute cholecystitis. Br J Surg. 2015 Oct;102(11):1302-13. PMID: 26265548
25. Wu QJ, Li YY, Tu C, Zhu J, Qian KQ, Feng TB, Li C, **Wu L**#, Ma XX#. Parity and endometrial cancer risk: a meta-analysis of epidemiological studies. Sci Rep. 2015 Sep 16;5:14243. PMID: 26373341. PMCID: PMC4642705 (# joint corresponding authors)
26. Wang YZ#, Wu QJ, Zhu J, **Wu L**#. Fish consumption and risk of myeloma: a meta-analysis of epidemiological studies. Cancer Causes Control. 2015 Sep;26(9):1307-14. PMID: 26156047 (# joint corresponding authors)
27. **Wu L**#, Zhu J. Linear reduction in thyroid cancer risk by oral contraceptive use: a dose-response meta-analysis of prospective cohort studies. Hum Reprod. 2015 Sep;30(9):2234-40. PMID: 26141711 (# corresponding author)
28. **Wu L**, Chaffee KG, Parker AS, Sicotte H, Petersen GM. Zinc transporter genes and urological cancers: integrative analysis suggests a role for ZIP11 in bladder cancer. Tumour Biol. 2015 Sep;36(10):7431-7. PMID: 25900876. PMCID: PMC4607554

29. Liu M, **Wu L**, Ming Q. How Does Physical Activity Intervention Improve Self-Esteem and Self-Concept in Children and Adolescents? Evidence from a Meta-Analysis. PLoS One. 2015 Aug 4;10(8):e0134804. PMID: 26241879. PMCID: PMC4524727
30. Yuan Y, Peizhi Z, Maling G, **Wu L**, Yunhe M, Xiang W, Qing M, Yanhui L, Ruofei L, Jiewen L. The efficacy of levetiracetam for patients with supratentorial brain tumors. J Clin Neurosci. 2015 Aug;22(8):1227-1231. PMID: 26051171
31. **Wu L**[#], Wang Z, Zhu J, Murad AL, Prokop LJ, Murad MH. Nut consumption and risk of cancer and type 2 diabetes: A systematic review and meta-analysis. Nutr Rev. 2015 Jul;73(7):409-25. PMID: 26081452. PMCID: PMC4560032 (# corresponding author)
This study received extensive media coverage from over 80 U.S. and international media
32. Sun J, Li B, Li CJ, Li Y, Su F, Gao QH, Wu FL, Yu T, **Wu L**, Li LJ. Computed tomography versus magnetic resonance imaging for diagnosing cervical lymph node metastasis of head and neck cancer: a systematic review and meta-analysis. Onco Targets Ther. 2015 Jun 8;8:1291-313. PMID: 26089682. PMCID: PMC4467645
33. **Wu L**[#], Zhu J, Prokop LJ, Murad MH. Pharmacologic Therapy of Diabetes and Overall Cancer Risk and Mortality: A Meta-Analysis of 265 Studies. Sci Rep. 2015 Jun 15;5:10147. PMID: 26076034. PMCID: PMC4467243 (# corresponding author)
34. Yuan X, Liu T, **Wu L**, Zou ZY, Li C. Validity of self-reported diabetes among middle-aged and older Chinese adults: the China Health and Retirement Longitudinal Study. BMJ Open. 2015 Apr 14;5(4):e006633. PMID: 25872937. PMCID: PMC4401856
35. Li C, Liu T, Sun W, **Wu L**, Zou ZY. Prevalence and risk factors of arthritis in a middle-aged and older Chinese population: the China health and retirement longitudinal study. Rheumatology (Oxford). 2015 Apr;54(4):697-706. PMID: 25288780
36. Hu YC, **Wu L**, Yan LF, Zhang W, Cui GB. The imaging features of metanephric adenoma: a case report and review of literature. Onco Targets Ther. 2015 Feb 13;8:445-9. PMID: 25709478. PMCID: PMC4335625
37. **Wu L**, Rabe KG, Petersen GM. Do Variants Associated with Susceptibility to Pancreatic Cancer and Type 2 Diabetes Reciprocally Affect Risk? PLoS One. 2015 Feb 6;10(2):e0117230. PMID: 25658847. PMCID: PMC4319943
38. **Wu L**, Schaid DJ, Sicotte H, Wieben ED, Li H, Petersen GM. Case-only exome sequencing and complex disease susceptibility gene discovery: study design considerations. J Med Genet. 2015 Jan;52(1):10-16. PMID: 25371537. PMCID: PMC4503357
39. Luan NN, **Wu L**, Gong TT, Wang YL, Lin B, Wu QJ. Nonlinear reduction in risk for colorectal cancer by oral contraceptive use: a meta-analysis of epidemiological studies. Cancer Causes Control. 2015 Jan;26(1):65-78. PMID: 25359305
40. Hu YC*, Yan LF*, **Wu L***, Du P, Chen BY, Wang L, Wang SM, Han Y, Tian Q, Yu Y, Xu TY, Wang W, Cui GB. Intravoxel incoherent motion diffusion-weighted MR imaging of gliomas: efficacy in preoperative grading. Sci Rep. 2014 Dec 1;4:7208. PMID: 25434593. PMCID: PMC4248278 (* joint first authors)

41. Huang A, Zhang B, Yan W, Wang B, Wei H, Zhang F, **Wu L**, Fan K, Guo Y. Myeloid-Derived Suppressor Cells Regulate Immune Response in Patients with Chronic Hepatitis B Virus Infection through PD-1-Induced IL-10. J Immunol. 2014 Dec 1;193(11):5461-9. PMID: 25344470
42. Hu YC*, **Wu L***, Yan LF*, Wang W, Wang SM, Chen BY, Li GF, Zhang B, Cui GB. Predicting Subtypes of Thymic Epithelial Tumors Using CT: New Perspective based on a Comprehensive Analysis of 216 Patients. Sci Rep. 2014 Nov 10;4:6984. PMID: 25382196. PMCID: PMC4225535 (* joint first authors)
43. Kuang D, Chen W, Song YZ, Yu YY, Zhang DY, **Wu L**, Tang J. Association between the HSPA1B \pm 1267A/G Polymorphism and Cancer Risk: A Meta-analysis of 14 Case-Control Studies. Asian Pac J Cancer Prev. 2014;15(16):6855-61. PMID: 25169537
44. Zhu X, Zhang J, Fan W, Gong Y, Yan J, Yuan Z, **Wu L**, Cui H, Luo H, Kong Q, Tang L, Leng S, Liao Y, Fu W, Xiao Q, Li D. MAPKAP1 rs10118570 Polymorphism Is Associated with Anti-infection and Anti-Hepatic Fibrogenesis in Schistosomiasis Japonica. PLoS One. 2014 Aug 25;9(8):e105995. PMID: 25153992. PMCID: PMC4143368
45. Jing W, Chen Y, Lu L, Hu X, Shao C, Zhang Y, Zhou X, Zhou Y, **Wu L**, Liu R, Fan K, Jin G. Human umbilical cord blood-derived mesenchymal stem cells producing IL-15 eradicate established pancreatic tumor in syngeneic mice. Mol Cancer Ther. 2014 Aug;13(8):2127-37. PMID: 24928851
46. **Wu L**[#], Jiang Z, Li C, Shu M[#]. Prediction of heart rate variability on cardiac sudden death in heart failure patients: A systematic review. Int J Cardiol. 2014 Jul 1;174(3):857-60. PMID: 24804906. PMCID: PMC4318838 (# joint corresponding authors)
47. **Wu L**, Goldstein AM, Yu K, Yang XR, Rabe KG, Arslan AA, Canzian F, Wolpin BM, Stolzenberg-Solomon R, Amundadottir LT, Petersen GM. Variants Associated with Susceptibility to Pancreatic Cancer and Melanoma Do Not Reciprocally Affect Risk. Cancer Epidemiol Biomarkers Prev. 2014 Jun;23(6):1121-4. PMID: 24642353. PMCID: PMC4120837
48. Guan HB, **Wu L**, Wu QJ, Zhu J, Gong T. Parity and pancreatic cancer risk: a dose-response meta-analysis of epidemiologic studies. PLoS One. 2014 Mar 21;9(3):e92738. PMID: 24658609. PMCID: PMC3962437

Under Revision:

49. **Wu L**, Wang J, Cai Q, Long J, Shu XO, Lu Y, Guo X, Bauer JA, Pasaniuc B, Penney KL, Freedman ML, the PRACTICAL, CRUK, BPC3, CAPS, PEGASUS consortia, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W. Identification of novel susceptibility loci and genes for prostate cancer risk: A transcriptome-wide association study in over 140,000 European descendants. **Under revision at *Nature Genetics***

Under Review:

50. Shu X, **Wu L**, Khankari NK, Shu XO, Wang T, Michailidou K, Bolla MK, Wang Q, Dennis J, ..., Simard J, Easton DF, Zheng W. Associations of obesity and circulating insulin and glucose with breast cancer risk: A Mendelian randomization analysis. **Under review at *International Journal of Epidemiology***

51. Lu Y, Beeghly-Fadiel A, **Wu L**, Guo X, Li B, Moysich KB, Im HK, Andrulis IL, Anton-Culver H, Arun BK, Bandera EV, ..., Gayther SA, Antoniou AC, Berchuck A, Goode EL, Chenevix-Trench G, Sellers TA, Pharoah PDP, Zheng W, Long J. Transcriptome-wide association study among 97,898 women to identify candidate susceptible genes for epithelial ovarian cancer risk. **Under review at *Cancer Research***

In Preparation (selected):

52. **Wu L**, ..., the PRACTICAL, CRUK, BPC3, CAPS, PEGASUS consortia, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W, Long J. Genetically predicted methylation biomarkers and prostate cancer risk: an analysis in over 140,000 European descendants.
53. **Wu L**, ..., the PRACTICAL, CRUK, BPC3, CAPS, PEGASUS consortia, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W. Genetically predicted blood protein biomarkers and prostate cancer risk: an analysis in over 140,000 European descendants.

CONFERENCE ABSTRACTS/PRESENTATIONS

National/International

Oral

1. **Wu L**, Shu X, Bao J, Guo X, the PRACTICAL, CRUK, BPC3, CAPS, PEGASUS consortia, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W. Genetically predicted blood protein biomarkers and prostate cancer risk: an analysis in over 140,000 European descendants. Presented at the American Association for Cancer Research Annual Meeting 2018. Chicago, IL, April, 2018. (**Minisymposium Session**)
2. **Wu L**, Long J, Guo X, Kraft P, Milne R, Michailidou K, Beesley J, Dunning A, Pharoah P, Simard J, Chenevix-Trench G, Easton D, Zheng W, on behalf of the Breast Cancer Association Consortium. Identification of novel susceptibility loci and genes for breast cancer risk: A large transcriptome-wide association study in 119,000 cases and 101,000 controls of European descent. Presented at the American Society of Human Genetics 2016 Annual Meeting. Vancouver, Canada, October, 2016. (**Platform Presentation**)

Poster

3. Shu X, Bao J, **Wu L**, Long J, Guo X, Michailidou K, Bolla MK, Wang Q, Dennis J, Simard J, Easton DF, Zheng W. Evaluation of Associations between Plasma Proteins and Breast Cancer Risk using Genetic Variants. Presented at the American Association for Cancer Research Annual Meeting 2018. Chicago, IL, April, 2018.
4. Yang Y, Cai Q, Shu X, **Wu L**, Shu XO, Li B, Guo X, Michailidou K, Bolla MK, Wang Q, Dennis J, Simard J, Easton DF, Zheng W, Long J. DNA methylation quantitative trait loci and breast cancer risk: data from nearly 230,000 women of European descent. Presented at the American Association for Cancer Research Annual Meeting 2018. Chicago, IL, April, 2018.
5. Yang Y, Cai Q, Shu X, **Wu L**, Shu XO, Li B, Guo X, Michailidou K, Bolla MK, Wang Q, Dennis J, Simard J, Easton DF, Zheng W, Long J. DNA methylation quantitative trait loci and breast cancer risk: an analysis of data from nearly 230,000 women of European descent. Presented at the Vanderbilt University 12th Annual Postdoctoral Association Symposium. Nashville, TN, April, 2018.

6. Yang Y, Cai Q, Shu X, **Wu L**, Shu XO, Li B, Guo X, Michailidou K, Bolla MK, Wang Q, Dennis J, Simard J, Easton DF, Zheng W, Long J. DNA methylation quantitative trait loci and breast cancer risk: data from nearly 230,000 women of European descent. Presented at the Personalized Medicine Day. Nashville, TN, March, 2018.
7. **Wu L**, Long J, Lu Y, Guo X, Pasaniuc B, Penney KL, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W, the PRACTICAL consortium. Identification of novel susceptibility loci and genes for prostate cancer risk: A large transcriptome-wide association study in over 143,000 subjects. Presented at the American Association for Cancer Research Annual Meeting 2017. Washington, D.C., April, 2017.
8. Shu X, **Wu L**, Khankari NK, Michailidou K, Bolla MK, Wang Q, Dennis J, Shu XO, Simard J, Easton DF, Zheng W on behalf of the Breast Cancer Association Consortium. Association between insulin resistance and breast cancer risk: A Mendelian randomization analysis of data from 228,000 women of European descent. Presented at the American Association for Cancer Research Annual Meeting 2017. Washington, D.C., April, 2017.
9. Lu Y, Schildkraut JM, Sellers TA, **Wu L**, Guo X, Li B, Chen YA, Doherty JB, Gayther S, Goode EL, Im HK, Kar S, Lawrenson K, Manichaikul AW, Permuth JB, Reid BM, Teer JK, Pharoah P, Zheng W, Long J for the OCAC consortium. Transcriptome-wide association study among 66,450 women to identify candidate susceptible genes for ovarian cancer risk. Presented at the American Association for Cancer Research Annual Meeting 2017. Washington, D.C., April, 2017.
10. Feng H, Gusev A, Pasaniuc B, **Wu L**, Long J, Milne R, Easton D, Chenevix-Trench G, Zheng W, Kraft P, on behalf of the Breast Cancer Association Consortium. A multi-tissue transcriptome-wide association study of breast cancer identifies 29 novel breast cancer susceptibility loci. Presented at the 2016 International Genetic Epidemiology Society Meeting. Toronto, Canada, October, 2016.
11. **Wu L**, Sicotte H, Beck T, Petersen GM. Detection of rare genetic variants that predispose to pancreatic cancer: Proof of Principle using exome sequencing data. Presented at the Translational Science 2014 Annual Meeting. Washington, D.C., April, 2014.
12. **Wu L**, Rabe KG, Parker AS, Petersen GM. ZIP11 and susceptibility to renal and bladder cancer. Presented at the Twelfth Annual AACR International Conference on Frontiers in Cancer Prevention Research. National Harbor, MD, October, 2013.
13. **Wu L**, Rabe KG, Parker AS, Petersen GM. Zinc transporter gene variants and susceptibility to urological cancers. Presented at the American Society of Human Genetics 2013 Annual Meeting. Boston, MA, October, 2013.
14. **Wu L**, Rabe KG, Petersen GM. Associations of variants in zinc transporter genes and risk of urological cancers. Presented at the 5th annual National Clinical and Translational Sciences Predoctoral Programs Meeting. Rochester, MN, May, 2013.
15. **Wu L**, Rabe KG, Petersen GM. Are there genetic variants that confer shared genetic susceptibility to pancreatic cancer and melanoma? Presented at the American Society of Human Genetics 2012 Annual Meeting. San Francisco, CA, November, 2012.
16. **Wu L**, Rabe KG, Matsumoto ME, Petersen GM. Are there shared genetic susceptibility variants in pancreatic cancer and melanoma? A GWAS analysis. Presented at the 4th annual National Clinical and Translational Sciences Predoctoral Programs Meeting. Rochester, MN, May, 2012.

Regional**Poster**

17. **Wu L**, Long J, Lu Y, Guo X, Pasaniuc B, Penney KL, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W, the PRACTICAL consortium. A transcriptome-wide association study in over 142,000 European descendants identifies novel susceptibility loci and genes for prostate cancer risk. Presented at the 2017 Vanderbilt-Ingram Cancer Center Annual Scientific Retreat. Nashville, TN, May, 2017.
18. Shu X, **Wu L**, Khankari NK, Michailidou K, Bolla MK, Wang Q, Dennis J, Shu XO, Simard J, Easton DF, Zheng W. Association between insulin resistance and breast cancer risk: A Mendelian randomization analysis of data from 182,000 women of European descent. Presented at the 2017 Vanderbilt-Ingram Cancer Center Annual Scientific Retreat. Nashville, TN, May, 2017.
19. Lu Y, Schildkraut JM, Sellers TA, **Wu L**, Guo X, Li B, Chen YA, Doherty JB, Gayther S, Goode EL, Im HK, Kar S, Lawrenson K, Manichaikul AW, Permuth JB, Reid BM, Teer JK, Pharoah P, Zheng W, Long J. Transcriptome-wide association study among 97,898 women to identify candidate susceptible genes for epithelial ovarian cancer risk. Presented at the Presented at the 2017 Vanderbilt-Ingram Cancer Center Annual Scientific Retreat. Nashville, TN, May, 2017.
20. **Wu L**, Long J, Lu Y, Guo X, Pasaniuc B, Penney KL, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W, the PRACTICAL consortium. A transcriptome-wide association study in over 142,000 European descendants to identify novel susceptibility loci and genes for prostate cancer risk. Presented at the Vanderbilt University 11th Annual Postdoctoral Association and Shared Resources Symposium. Nashville, TN, April, 2017.
21. **Wu L**, Long J, Lu Y, Guo X, Pasaniuc B, Penney KL, Kote-Jarai Z, Haiman CA, Eeles RA, Zheng W, the PRACTICAL consortium. Identification of novel susceptibility loci and genes for prostate cancer risk: A large transcriptome-wide association study in over 142,000 European descendants. Presented at the Meharry/Vanderbilt/Tennessee State Cancer Partnership 16th Annual Retreat. Nashville, TN, April, 2017.
22. Shu X, **Wu L**, Khankari NK, Michailidou K, Bolla MK, Wang Q, Dennis J, Shu XO, Simard J, Easton DF, Zheng W on behalf of the Breast Cancer Association Consortium. Association between insulin resistance and breast cancer risk: A Mendelian randomization analysis of data from 180,000 women of European descent. Presented at the Meharry/Vanderbilt/Tennessee State Cancer Partnership 16th Annual Retreat. Nashville, TN, April, 2017.
23. **Wu L**, Long J, Guo X, Shu XO, Zheng W. Genetically predicted transcriptome-wide association study identifies novel susceptibility loci and genes for breast cancer. Presented at the 2016 Vanderbilt-Ingram Cancer Center Annual Scientific Retreat. Nashville, TN, May, 2016.
24. **Wu L**, Rabe KG, Parker AS, Petersen GM. Association of ZIP11 and risk of renal and bladder cancer. Presented at the 2013 Mayo Graduate School Symposium. Rochester, MN, September, 2013.
25. **Wu L**, Rabe KG, Matsumoto ME, Petersen GM. Are there shared GWAS-derived susceptibility variants in pancreatic cancer and melanoma? Presented at the 2012 Mayo Graduate School Symposium. Rochester, MN, September, 2012.

26. **Wu L**, Rabe KG, Matsumoto ME, Petersen GM. Do variants in zinc transporter family genes increase susceptibility to pancreatic cancer? Presented at the 2011 Mayo Graduate School Symposium. Rochester, MN, September, 2011.

INVITED TALKS/PRESENTATIONS/SEMINARS

1. *Genetically predicted blood methylation biomarkers and prostate cancer risk: an analysis in over 140,000 European descendants*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University Medical Center, Nashville, TN, December 11, 2017
2. *Transcriptome-wide association study to identify novel susceptibility loci and genes for age at menopause*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University Medical Center, Nashville, TN, June 12, 2017
3. *Transcriptome-wide association study to identify novel susceptibility loci and genes for prostate cancer risk*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University Medical Center, Nashville, TN, February 13, 2017
4. *Identification of novel susceptibility loci and genes for breast cancer risk: A large transcriptome-wide association study in nearly 230,000 women of European descent*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University Medical Center, Nashville, TN, October 10, 2016
5. *Uncovering the roles of polyunsaturated fatty acids in pancreatic cancer etiology*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University Medical Center, Nashville, TN, June 13, 2016
6. *Transcriptome-wide association study to identify novel susceptibility loci and genes for breast cancer*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University Medical Center, Nashville, TN, May 9, 2016
7. *Polyunsaturated fatty acids and pancreatic cancer risk: a proposed study*
MAGEC monthly meeting, Vanderbilt Epidemiology Center, Vanderbilt University School of Medicine, Nashville, TN, October 12, 2015
8. *Multi-stage rare variant analyses of sequencing data to identify novel susceptibility genes for pancreatic cancer*
Vanderbilt Epidemiology Center, Vanderbilt University School of Medicine, Nashville, TN, May 19, 2015