

**ZHAOMING WANG, PhD, MSc**  
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Department of Computational Biology  
St. Jude Children's Research Hospital  
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## 1. Current Position at St. Jude

Associate Member 09/2018 – Present  
Department of Epidemiology and Cancer Control

## 2. Education and Training

BSc in Molecular Biology, East China Normal University 07/1992  
MSc in Mathematical Computer Science, University of Illinois at Chicago 08/2000  
PhD in Computational Biology and Bioinformatics, George Mason University 08/2013

## 3. Professional Career

Research Associate 7/1992 – 6/1997  
The Shanghai Institute of Plant Physiology  
Chinese Academy of Sciences  
Shanghai, China

Senior Software Developer 9/2000 – 12/2005  
JDA Software Inc.  
Rockville, MD

Senior Bioinformatics Analyst 12/2005 – 10/2010  
Cancer Genomics Research Laboratory  
Division of Cancer Genetics and Epidemiology  
National Cancer Institute  
Gaithersburg, MD

Group Leader, Bioinformatics 10/2010 – 08/2015  
Cancer Genomics Research Laboratory  
Division of Cancer Genetics and Epidemiology  
National Cancer Institute  
Gaithersburg, MD

Bioinformatics Scientist, SJLife Genomics Lead 08/2015 – 09/2018  
Department of Computational Biology

Associate Member 09/2018 – Present  
Department of Computational Biology

## 4. Professional Memberships

American Society of Human Genetics 2005 – Present

International Society of Genetic Epidemiology 2008 – Present  
American Association for Cancer Research 2010 – Present

## 5. Editorial Board Appointments

Academic Editor, BioMed Research International 2013 – Present  
Academic Editor, Advances in Medicine 2013 – Present  
Academic Editor, New Journal of Science 2013 – Present

## 6. Grant Review/Study Activities

National Centers for Translational Research in Reproduction and Infertility

ZHD1 DSR-M 55 1, P50 Clinical Trial Option July 2020

O’Neal Comprehensive Cancer Center at University of Alabama at Birmingham

NIH U54, Comprehensive Partnerships to Advance Cancer Health Equity, August 2020  
PAR-18-767

## 7. Honors and Awards

Special Achievement Award 2007  
Division of Cancer Epidemiology and Genetics (DCEG)  
National Cancer Institute

Special Appreciation Team Award 2007  
Division of Cancer Epidemiology and Genetics (DCEG)  
National Cancer Institute

Outstanding Achievement Award 2009  
Division of Cancer Epidemiology and Genetics (DCEG)  
National Cancer Institute

Visiting Professor Award 2013  
School of Public Health  
Nanjing Medical University

Distinguished Visiting Professor Award 2016  
Center for Prostate Disease Research  
Uniformed Services University of the Health Sciences  
Department of Defense

## 8. Institutional and Committee Assignments

St. Cloud SJLife Data Access Committee 04/2018 – Present  
Co-Chair, Speaker, 13<sup>th</sup> Internal Congress of Human Genetics, Kyoto, Japan 2016

## 9. Professional Administrative Services

|   |                |
|---|----------------|
| Ad Hoc Reviewer, British Journal of Cancer                      | 2012 – Present |
| Ad Hoc Reviewer, BMC Cancer                                     | 2012 – Present |
| Ad Hoc Reviewer, Cancer Epidemiology, Biomarkers and Prevention | 2012 – Present |
| Ad Hoc Reviewer, Carcinogenesis                                 | 2012 – Present |
| Ad Hoc Reviewer, Clinical Cancer Research                       | 2012 – Present |
| Ad Hoc Reviewer, EBioMedicine                                   | 2012 – Present |
| Ad Hoc Reviewer, Genome Biology                                 | 2012 – Present |
| Ad Hoc Reviewer, Human Mutation                                 | 2012 – Present |
| Ad Hoc Reviewer, Human Molecular Genetics                       | 2012 – Present |
| Ad Hoc Reviewer, Journal of Translational Medicine              | 2012 – Present |
| Ad Hoc Reviewer, Lung Cancer                                    | 2012 – Present |
| Ad Hoc Reviewer, Oncogene                                       | 2012 – Present |
| Ad Hoc Reviewer, PLoS ONE                                       | 2012 – Present |
| Ad Hoc Reviewer, Scientific Reports                             | 2012 – Present |
| Ad Hoc Reviewer, Oncotarget                                     | 2015           |
| Ad Hoc Reviewer, Journal of Clinical Oncology                   | 2018 – Present |
| Ad Hoc Reviewer, Nature Communications                          | 2018 – Present |
| Ad Hoc Reviewer, Immunologic Research                           | 2018 – Present |
| Ad Hoc Reviewer, Nature Genetics                                | 2018 – Present |
| Ad Hoc Reviewer, Genome Medicine                                | 2018 – Present |
| Ad Hoc Reviewer, International Journal of Cancer                | 2021 – Present |

## 10. Formal Education and Teaching Activities

### University Teaching

|   |                |
|---|----------------|
| Computational Biology mini-course<br>St. Jude Graduate School of Biomedical Sciences<br>Memphis, TN<br>Role: Instructor | 2019 – Present |
|---|----------------|

### Graduate and Post-Doctoral Students, Fellows

|  |                |
|--|----------------|
| Nan Song, PhD, BPharm<br>Post-Doctoral Research Associate<br>Role: Mentor<br>Current Position: Assistant Professor, Department of Pharmacy, Chungbuk National University, South Korea    | 2019 – 2021    |
| Na Qin, MD<br>PhD Candidate, Nanjing Medical University<br>Role: Mentor<br>Current Position: Postdoctoral Research Fellow, Department of Epidemiology, Nanjing Medical University, China | 2019 – 2020    |
| Qian Dong, PhD<br>Post-Doctoral Research Associate<br>Role: Mentor<br>St. Jude Children’s Research Hospital<br>Memphis, Tennessee  | 2020 – Present |
| Qian Li, PhD<br>Assistant Member   | 2021 – Present |

Role: Mentor  
St. Jude Children's Research Hospital  
Memphis, Tennessee

## 11. Grant Awards

### A. Active Grants

R01 CA215405, NCI Krull (PI) 01/01/2020 – 07/31/2021  
Sleep Apnea in Survivors of Childhood Cancer Treated with Thoracic Radiation (APNEA)  
To compare the frequency of OSA in adult survivors of childhood cancer treated with thoracic radiation compared to community controls matched on age, gender, race and body mass index. To identify specific therapeutic factors associated with OSA in adult survivors of childhood cancer treated with thoracic radiation. To identify biomarkers of OSA in adult survivors of childhood cancer treated with thoracic radiation. To examine associations between OSA and cardiac morbidity and brain integrity in the adult survivors.  
Role: Co-Investigator  
Award amount: \$448,750  
Percentage of effort: .60 calendar year

U01CA195547, NCI Hudson/Robison (MPI) 07/01/2020 – 06/30/2025  
The St. Jude Lifetime Cohort  
To expand eligibility of the SJLIFE cohort to include a clinically well-characterized cohort of five-year survivors, to undertake uniform medical assessments in all cohort participants, to establish a resource for the conduct of innovative intervention-based research, and to develop innovative methodologies to maintain the SJLIFE cohort.  
Role: Co-Investigator  
Award amount: \$12,831,970.00 (supplements \$ 137,876; \$149,900)  
Percentage of effort: .60 calendar year

V-Foundation Thrivership Wang/Huang (MPI) 01/01/2021 – 01/01/2024  
Social epigenetic pathways towards health disparities in adult survivors of childhood cancer  
To characterize health disparities among adult survivors of childhood cancer using measures of SES including educational attainment, household/personal income, and area SES deprivation; To examine genome-wide associations of methylation at each CpG site with SES-related factors and evaluate the functional implication of SES-associated CpG on regulation of gene expression; To examine how methylation mediates the effect of SES factors on the risk of developing CHC among adult survivors of childhood cancer.  
Role: PI  
Award amount: \$600,000  
Percentage of effort: 3.0 calendar year

### B. Pending Grants

R21, NCI Yasui (PI) 07/01/21 – 06/30/23  
Enhancing the prediction of cardiovascular late effects in childhood cancer survivors by integrating treatment-specific genetic effects into polygenic risk scores  
Create a reference TX-G Effects Catalog for a range of cardiovascular phenotypes and diseases among childhood cancer survivors. Develop a novel approach to construct survivor-enhanced PRS for cardiovascular phenotypes that combines general population genetic effect estimates and TX-G effects, and evaluate its prediction performance in independent test cohorts.  
Role: Co-Investigator  
Award amount: 22,439.00  
Percentage of effort: .36 calendar year

NOT-CA-21-031, NCI

WANG (PI)

01/01/2022–12/31/2024

Aging biomarkers, accelerated aging and aging-related outcomes among survivors of childhood cancer

Evaluate and compare biomarkers of aging within chronological age-defined subgroups and their associations with survivorship outcomes. Evaluate and compare biomarkers of aging among racial/ethnic subgroups and examine the potential role of aging biomarkers in racial disparities in cancer survivorship outcomes; To evaluate and compare epigenetic age and examine associations between cell type specific epigenetic age acceleration and cancer survivorship outcomes. Identify and characterize the genetic determinants of biological aging measured with each biomarker among survivors of childhood cancer through integration of multi-omics data.

Role: PI

Award Amount: \$1,346,250.00

Percentage of effort: 1.8 calendar year

### C. Completed Grants

1OT3TR002026, NCATS

Zhang (PI)

09/01/2016 – 08/31/2018

Biomedical data translator technical feasibility assessment and architecture design

DeepTranslate, a novel approach for cross-translation among heterogeneous types of biomedical data, will be developed for discovery of new biological concepts and relations using the Providence HealthCare Cohort and the St. Jude Life Cohort as the two demonstration projects.

Role: Co-investigator

Award amount: \$43,763.00

## 12. Publication Record

### A. Peer Reviewed Publications

#### i. Original Research Articles

1. Yeager M, Orr N, Hayes RB, Jacobs KB, Kraft P, Wacholder S, Minichiello MJ, Fearnhead P, Yu K, Chatterjee N, **Wang Z**, Welch R, Staats BJ, Calle EE, Feigelson HS, Thun MJ, Rodriguez C, Albanes D, Virtamo J, Weinstein S, Schumacher FR, Giovannucci E, Willett WC, Cancel-Tassin G, Cussenot O, Valeri A, Andriole GL, Gelmann EP, Tucker M, Gerhard DS, Fraumeni JF Jr, Hoover R, Hunter DJ, Chanock SJ, Thomas G. Genome-wide association study of prostate cancer identifies a second risk locus at 8q24. *Nat Genet.* 2007 May;39(5):645-649. PubMed PMID: 17401363.
2. Hunter DJ, Kraft P, Jacobs KB, Cox DG, Yeager M, Hankinson SE, Wacholder S, **Wang Z**, Welch R, Hutchinson A, Wang J, Yu K, Chatterjee N, Orr N, Willett WC, Colditz GA, Ziegler RG, Berg CD, Buys SS, McCarty CA, Feigelson HS, Calle EE, Thun MJ, Hayes RB, Tucker M, Gerhard DS, Fraumeni JF Jr, Hoover RN, Thomas G, Chanock SJ. A genome-wide association study identifies alleles in FGFR2 associated with risk of sporadic postmenopausal breast cancer. *Nat Genet.* 2007 Jul;39(7):870-874. PubMed Central PMCID: PMC3493132.
3. Thomas G, Jacobs KB, Yeager M, Kraft P, Wacholder S, Orr N, Yu K, Chatterjee N, Welch R, Hutchinson A, Crenshaw A, Cancel-Tassin G, Staats BJ, **Wang Z**, Gonzalez-Bosquet J, Fang J, Deng X, Berndt SI, Calle EE, Feigelson HS, Thun MJ, Rodriguez C, Albanes D, Virtamo J, Weinstein S, Schumacher FR, Giovannucci E, Willett WC, Cussenot O, Valeri A, Andriole GL, Crawford ED, Tucker M, Gerhard DS, Fraumeni JF Jr, Hoover R, Hayes RB, Hunter DJ, Chanock SJ. Multiple loci identified in a genome-wide association study of prostate cancer. *Nat Genet.* 2008 Mar;40(3):310-315. PubMed PMID: 18264096.
4. Yu K, **Wang Z**, Li Q, Wacholder S, Hunter DJ, Hoover RN, Chanock S, Thomas G. Population

substructure and control selection in genome-wide association studies. PLoS One. 2008 Jul 2;3(7):e2551. PubMed Central PMCID: PMC2432498.

5. Thomas G, Jacobs KB, Kraft P, Yeager M, Wacholder S, Cox DG, Hankinson SE, Hutchinson A, **Wang Z**, Yu K, Chatterjee N, Garcia-Closas M, Gonzalez-Bosquet J, Prokunina-Olsson L, Orr N, Willett WC, Colditz GA, Ziegler RG, Berg CD, Buys SS, McCarty CA, Feigelson HS, Calle EE, Thun MJ, Diver R, Prentice R, Jackson R, Kooperberg C, Chlebowski R, Lissowska J, Peplonska B, Brinton LA, Sigurdson A, Doody M, Bhatti P, Alexander BH, Buring J, Lee IM, Vatten LJ, Hveem K, Kumle M, Hayes RB, Tucker M, Gerhard DS, Fraumeni JF Jr, Hoover RN, Chanock SJ, Hunter DJ. A multistage genome-wide association study in breast cancer identifies two new risk alleles at 1p11.2 and 14q24.1 (RAD51L1). Nat Genet. 2009 May;41(5):579-584. PubMed Central PMCID: PMC2928646.
6. Rajaraman P, Brenner AV, Butler MA, Wang SS, Pfeiffer RM, Ruder AM, Linet MS, Yeager M, **Wang Z**, Orr N, Fine HA, Kwon D, Thomas G, Rothman N, Inskip PD, Chanock SJ. Common variation in genes related to innate immunity and risk of adult glioma. Cancer Epidemiol Biomarkers Prev. 2009 May;18(5):1651-1658. PubMed Central PMCID: PMC2771723.
7. Yeager M, Chatterjee N, Ciampa J, Jacobs KB, Gonzalez-Bosquet J, Hayes RB, Kraft P, Wacholder S, Orr N, Berndt S, Yu K, Hutchinson A, **Wang Z**, Amundadottir L, Feigelson HS, Thun MJ, Diver WR, Albanes D, Virtamo J, Weinstein S, Schumacher FR, Cancel-Tassin G, Cussenot O, Valeri A, Andriole GL, Crawford ED, Haiman CA, Henderson B, Kolonel L, Le Marchand L, Siddiq A, Riboli E, Key TJ, Kaaks R, Isaacs W, Isaacs S, Wiley KE, Gronberg H, Wiklund F, Stattin P, Xu J, Zheng SL, Sun J, Vatten LJ, Hveem K, Kumle M, Tucker M, Gerhard DS, Hoover RN, Fraumeni JF Jr, Hunter DJ, Thomas G, Chanock SJ. Identification of a new prostate cancer susceptibility locus on chromosome 8q24. Nat Genet. 2009 Oct;41(10):1055-1057. PubMed Central PMCID: PMC3430510.
8. Landi MT, Chatterjee N, Yu K, Goldin LR, Goldstein AM, Rotunno M, Mirabello L, Jacobs K, Wheeler W, Yeager M, Bergen AW, Li Q, Consonni D, Pesatori AC, Wacholder S, Thun M, Diver R, Oken M, Virtamo J, Albanes D, **Wang Z**, Burdette L, Doheny KF, Pugh EW, Laurie C, Brennan P, Hung R, Gaborieau V, McKay JD, Lathrop M, McLaughlin J, Wang Y, Tsao MS, Spitz MR, Wang Y, Krokan H, Vatten L, Skorpén F, Arnesen E, Benhamou S, Bouchard C, Metspalu A, Vooder T, Nelis M, Välik K, Field JK, Chen C, Goodman G, Sulem P, Thorleifsson G, Rafnar T, Eisen T, Sauter W, Rosenberger A, Bickeböller H, Risch A, Chang-Claude J, Wichmann HE, Stefansson K, Houlston R, Amos CI, Fraumeni JF Jr, Savage SA, Bertazzi PA, Tucker MA, Chanock S, Caporaso NE. A genome-wide association study of lung cancer identifies a region of chromosome 5p15 associated with risk for adenocarcinoma. Am J Hum Genet. 2009 Nov;85(5):679-691. PubMed Central PMCID: PMC2775843. *Erratum: Am J Hum Genet. 2011 Jun 10;88(6):861. Metspalu, Andres [corrected to Metspalu, Andres]. PubMed Central PMCID: PMC3113243.*
9. Petersen GM, Amundadottir L, Fuchs CS, Kraft P, Stolzenberg-Solomon RZ, Jacobs KB, Arslan AA, Bueno-de-Mesquita HB, Gallinger S, Gross M, Helzlsouer K, Holly EA, Jacobs EJ, Klein AP, LaCroix A, Li D, Mandelson MT, Olson SH, Risch HA, Zheng W, Albanes D, Bamlet WR, Berg CD, Boutron-Ruault MC, Buring JE, Bracci PM, Canzian F, Clipp S, Cotterchio M, de Andrade M, Duell EJ, Gaziano JM, Giovannucci EL, Goggins M, Hallmans G, Hankinson SE, Hassan M, Howard B, Hunter DJ, Hutchinson A, Jenab M, Kaaks R, Kooperberg C, Krogh V, Kurtz RC, Lynch SM, McWilliams RR, Mendelsohn JB, Michaud DS, Parikh H, Patel AV, Peeters PH, Rajkovic A, Riboli E, Rodriguez L, Seminara D, Shu XO, Thomas G, Tjønneland A, Tobias GS, Trichopoulos D, Van Den Eeden SK, Virtamo J, Wactawski-Wende J, **Wang Z**, Wolpin BM, Yu H, Yu K, Zeleniuch-Jacquotte A, Fraumeni JF Jr, Hoover RN, Hartge P, Chanock SJ. A genome-wide association study identifies pancreatic cancer susceptibility loci on chromosomes 13q22.1, 1q32.1 and 5p15.33. Nat Genet. 2010 Mar;42(3):224-228. PubMed Central PMCID: PMC2853179.
10. Bhattacharjee S, **Wang Z**, Ciampa J, Kraft P, Chanock S, Yu K, Chatterjee N. Using principal components of genetic variation for robust and powerful detection of gene-gene interactions in case-

control and case-only studies. *Am J Hum Genet.* 2010 Mar 12;86(3):331-342. PubMed Central PMCID: PMC2833365.

11. Elliott KS, Zeggini E, McCarthy MI, Gudmundsson J, Sulem P, Stacey SN, Thorlacius S, Amundadottir L, Grönberg H, Xu J, Gaborieau V, Eeles RA, Neal DE, Donovan JL, Hamdy FC, Muir K, Hwang SJ, Spitz MR, Zanke B, Carvajal-Carmona L, Brown KM; Australian Melanoma Family Study Investigators, Hayward NK, Macgregor S, Tomlinson IP, Lemire M, Amos CI, Murabito JM, Isaacs WB, Easton DF, Brennan P; **PanScan Consortium**, Barkardottir RB, Gudbjartsson DF, Rafnar T, Hunter DJ, Chanock SJ, Stefansson K, Ioannidis JP. Evaluation of association of HNF1B variants with diverse cancers: collaborative analysis of data from 19 genome-wide association studies. *PLoS One.* 2010 May 28;5(5):e10858. PubMed Central PMCID: PMC2878330. Role: Co-author in PanScan Consortium
12. Abnet CC, Freedman ND, Hu N, **Wang Z**, Yu K, Shu XO, Yuan JM, Zheng W, Dawsey SM, Dong LM, Lee MP, Ding T, Qiao YL, Gao YT, Koh WP, Xiang YB, Tang ZZ, Fan JH, Wang C, Wheeler W, Gail MH, Yeager M, Yuenger J, Hutchinson A, Jacobs KB, Giffen CA, Burdett L, Fraumeni JF Jr, Tucker MA, Chow WH, Goldstein AM, Chanock SJ, Taylor PR. A shared susceptibility locus in PLCE1 at 10q23 for gastric adenocarcinoma and esophageal squamous cell carcinoma. *Nat Genet.* 2010 Sep;42(9):764-767. PubMed Central PMCID: PMC2947317.
13. **Wang Z**, Hildesheim A, Wang SS, Herrero R, Gonzalez P, Burdette L, Hutchinson A, Thomas G, Chanock SJ, Yu K. Genetic admixture and population substructure in Guanacaste Costa Rica. *PLoS One.* 2010 Oct 13;5(10):e13336. PubMed Central PMCID: PMC2954167. Role: First author
14. Rothman N, Garcia-Closas M, Chatterjee N, Malats N, Wu X, Figueroa JD, Real FX, Van den Berg D, Matullo G, Baris D, Thun M, Kiemeny LA, Vineis P, De Vivo I, Albanes D, Purdue MP, Rafnar T, Hildebrandt MA, Kiltie AE, Cussenot O, Golka K, Kumar R, Taylor JA, Mayordomo JI, Jacobs KB, Kogevinas M, Hutchinson A, **Wang Z**, Fu YP, Prokunina-Olsson L, Burdett L, Yeager M, Wheeler W, Tardón A, Serra C, Carrato A, García-Closas R, Lloreta J, Johnson A, Schwenn M, Karagas MR, Schned A, Andriole G Jr, Grubb R 3rd, Black A, Jacobs EJ, Diver WR, Gapstur SM, Weinstein SJ, Virtamo J, Cortessis VK, Gago-Dominguez M, Pike MC, Stern MC, Yuan JM, Hunter DJ, McGrath M, Dinney CP, Czerniak B, Chen M, Yang H, Vermeulen SH, Aben KK, Witjes JA, Makkinje RR, Sulem P, Besenbacher S, Stefansson K, Riboli E, Brennan P, Panico S, Navarro C, Allen NE, Bueno-de-Mesquita HB, Trichopoulos D, Caporaso N, Landi MT, Canzian F, Ljungberg B, Tjønneland A, Clavel-Chapelon F, Bishop DT, Teo MT, Knowles MA, Guarrera S, Polidoro S, Ricceri F, Sacerdote C, Allione A, Cancel-Tassin G, Selinski S, Hengstler JG, Dietrich H, Fletcher T, Rudnai P, Gurzau E, Koppova K, Bolick SC, Godfrey A, Xu Z, Sanz-Velez JI, D García-Prats M, Sanchez M, Valdivia G, Porru S, Benhamou S, Hoover RN, Fraumeni JF Jr, Silverman DT, Chanock SJ. A multi-stage genome-wide association study of bladder cancer identifies multiple susceptibility loci. *Nat Genet.* 2010 Nov;42(11):978-984. PubMed Central PMCID: PMC3049891.
15. Purdue MP, Johansson M, Zelenika D, Toro JR, Scelo G, Moore LE, Prokhortchouk E, Wu X, Kiemeny LA, Gaborieau V, Jacobs KB, Chow WH, Zaridze D, Matveev V, Lubinski J, Trubicka J, Szeszenia-Dabrowska N, Lissowska J, Rudnai P, Fabianova E, Bucur A, Bencko V, Foretova L, Janout V, Boffetta P, Colt JS, Davis FG, Schwartz KL, Banks RE, Selby PJ, Harnden P, Berg CD, Hsing AW, Grubb RL 3rd, Boeing H, Vineis P, Clavel-Chapelon F, Palli D, Tumino R, Krogh V, Panico S, Duell EJ, Quirós JR, Sanchez MJ, Navarro C, Ardanaz E, Dorronsoro M, Khaw KT, Allen NE, Bueno-de-Mesquita HB, Peeters PH, Trichopoulos D, Linseisen J, Ljungberg B, Overvad K, Tjønneland A, Romieu I, Riboli E, Mukeria A, Shangina O, Stevens VL, Thun MJ, Diver WR, Gapstur SM, Pharoah PD, Easton DF, Albanes D, Weinstein SJ, Virtamo J, Vatten L, Hveem K, Njølstad I, Tell GS, Stoltenberg C, Kumar R, Koppova K, Cussenot O, Benhamou S, Oosterwijk E, Vermeulen SH, Aben KK, van der Marel SL, Ye Y, Wood CG, Pu X, Mazur AM, Boulygina ES, Chekanov NN, Foglio M, Lechner D, Gut I, Heath S, Blanche H, Hutchinson A, Thomas G, **Wang Z**, Yeager M, Fraumeni JF Jr, Skryabin KG, McKay JD, Rothman N, Chanock SJ, Lathrop M, Brennan P. Genome-wide association study of renal cell carcinoma identifies two susceptibility loci on 2p21

and 11q13.3. *Nat Genet.* 2011 Jan;43(1):60-65. PubMed Central PMCID: PMC3049257.

16. Mirabello L, Richards EG, Duong LM, Yu K, **Wang Z**, Cawthon R, Berndt SI, Burdett L, Chowdhury S, Teshome K, Douglass C, Savage SA; National Osteosarcoma Etiology Study Group. Telomere length and variation in telomere biology genes in individuals with osteosarcoma. *Int J Mol Epidemiol Genet.* 2011 Jan 1;2(1):19-29. PubMed Central PMCID: PMC3077235.
17. Mirabello L, Yu K, Berndt SI, Burdett L, **Wang Z**, Chowdhury S, Teshome K, Uzoka A, Hutchinson A, Grotmol T, Douglass C, Hayes RB, Hoover RN, Savage SA; National Osteosarcoma Etiology Study Group. A comprehensive candidate gene approach identifies genetic variation associated with osteosarcoma. *BMC Cancer.* 2011 May 29;29(11):209. PubMed Central PMCID: PMC3138419.
18. Parikh H, **Wang Z**, Pettigrew KA, Jia J, Daugherty S, Yeager M, Jacobs KB, Hutchinson A, Burdett L, Cullen M, Qi L, Boland J, Collins I, Albert TJ, Vatten LJ, Hveem K, Njølstad I, Cancel-Tassin G, Cussenot O, Valeri A, Virtamo J, Thun MJ, Feigelson HS, Diver WR, Chatterjee N, Thomas G, Albanes D, Chanock SJ, Hunter DJ, Hoover R, Hayes RB, Berndt SI, Sampson J, Amundadottir L. Fine mapping the KLK3 locus on chromosome 19q13.33 associated with prostate cancer susceptibility and PSA levels. *Hum Genet.* 2011 Jun;129(6):675-685. PubMed Central PMCID: PMC3092924.
19. Haiman CA, Chen GK, Blot WJ, Strom SS, Berndt SI, Kittles RA, Rybicki BA, Isaacs WB, Ingles SA, Stanford JL, Diver WR, Witte JS, Hsing AW, Nemesure B, Rebbeck TR, Cooney KA, Xu J, Kibel AS, Hu JJ, John EM, Gueye SM, Watya S, Signorello LB, Hayes RB, **Wang Z**, Yeboah E, Tettey Y, Cai Q, Kolb S, Ostrander EA, Zeigler-Johnson C, Yamamura Y, Neslund-Dudas C, Haslag-Minoff J, Wu W, Thomas V, Allen GO, Murphy A, Chang BL, Zheng SL, Leske MC, Wu SY, Ray AM, Hennis AJ, Thun MJ, Carpten J, Casey G, Carter EN, Duarte ER, Xia LY, Sheng X, Wan P, Pooler LC, Cheng I, Monroe KR, Schumacher F, Le Marchand L, Kolonel LN, Chanock SJ, Van den Berg D, Stram DO, Henderson BE. Genome-wide association study of prostate cancer in men of African ancestry identifies a susceptibility locus at 17q21. *Nat Genet.* 2011 Jun;43(6):570-3. PubMed Central PMCID: PMC3102788.
20. Hinch AG, Tandon A, Patterson N, Song Y, Rohland N, Palmer CD, Chen GK, Wang K, Buxbaum SG, Akyzbekova EL, Aldrich MC, Ambrosone CB, Amos C, Bandera EV, Berndt SI, Bernstein L, Blot WJ, Bock CH, Boerwinkle E, Cai Q, Caporaso N, Casey G, Cupples LA, Deming SL, Diver WR, Divers J, Fornage M, Gillanders EM, Glessner J, Harris CC, Hu JJ, Ingles SA, Isaacs W, John EM, Kao WH, Keating B, Kittles RA, Kolonel LN, Larkin E, Le Marchand L, McNeill LH, Millikan RC, Murphy A, Musani S, Neslund-Dudas C, Nyante S, Papanicolaou GJ, Press MF, Psaty BM, Reiner AP, Rich SS, Rodriguez-Gil JL, Rotter JI, Rybicki BA, Schwartz AG, Signorello LB, Spitz M, Strom SS, Thun MJ, Tucker MA, **Wang Z**, Wiencke JK, Witte JS, Wrensch M, Wu X, Yamamura Y, Zanetti KA, Zheng W, Ziegler RG, Zhu X, Redline S, Hirschhorn JN, Henderson BE, Taylor HA Jr, Price AL, Hakonarson H, Chanock SJ, Haiman CA, Wilson JG, Reich D, Myers SR. The landscape of recombination in African Americans. *Nature.* 2011 Jul 20;476(7359): 170-175. PubMed Central PMCID: PMC3154982.
21. Berndt SI, Sampson J, Yeager M, Jacobs KB, **Wang Z**, Hutchinson A, Chung C, Orr N, Wacholder S, Chatterjee N, Yu K, Kraft P, Feigelson HS, Thun MJ, Diver WR, Albanes D, Virtamo J, Weinstein S, Schumacher FR, Cancel-Tassin G, Cussenot O, Valeri A, Andriole GL, Crawford ED, Haiman C, Henderson B, Kolonel L, Le Marchand L, Siddiq A, Riboli E, Travis RC, Kaaks R, Isaacs W, Isaacs S, Wiley KE, Gronberg H, Wiklund F, Stattin P, Xu J, Zheng SL, Sun J, Vatten LJ, Hveem K, Njølstad I, Gerhard DS, Tucker M, Hayes RB, Hoover RN, Fraumeni JF Jr, Hunter DJ, Thomas G, Chanock SJ. Large-scale fine mapping of the HNF1B locus and prostate cancer risk. *Hum Mol Genet.* 2011 Aug 15;20(16):3322-3329. PubMed Central PMCID: PMC3140817.
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**ii. Original Research Articles Accepted for Future Publication**

**iii. Original Research Articles Submitted for Review**

1. Song N, Liu Q, Wilson CL, Sapkota Y, Ehrhardt MJ, Gibson TM, Morton LM, Chanock SJ, Neglia J, Arnold MA, Michael R, Gout A, Mulder H, Easton J, Bhatia S, Armstrong GT, Zhang J, Delaney A, Hudson MM, Robison LL, Yasui Y, **Wang Z**. Polygenic risk score improves risk stratification and prediction of subsequent thyroid cancer after childhood cancer. *Cancer Epidemiol Biomark Prev.* 2021; submitted for review. Role: Senior author, corresponding author

**v. Original Research Articles to be Submitted**

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**vi. Editorials and Commentaries**

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30. Rusch M, McLeod C, Newman S, Zhou X, Wu, G, Sioson E, Wang S, Michael RJ, Patel A, Edmonson MN, Birch K, Frantz A, Chang TC, Li Y, Davidson RI, Ma S, McGuire I, Robison N, Gentry D, Weaver C, Tang X, Palmer L, Suh E, Tanner L, McMurry J, **Wang Z**, Wilson CL, Cheng Y, Weiss M, Robison LL, Yasui Y, Nichols KE, Ellison DW, Perry K, Downing KP, Zhang J. St. Jude Cloud - expanding access to and facilitating usage of pediatric cancer genomics data. Bio-IT World Conference & Expo. Boston, MA. May 15-17. 2018.
31. Walsh N, Zhang H, Hyland PL, Yang Q, Mocci E, Zhang M, Childs EJ, **Wang Z**, Chanock S, Hartge P, Hoover R, Kraft P, Li D, Jacobs EJ, Petersen GM, Wolpin BM, Risch HA, Amundadottir LT, Yu K, Klein AP, Stolzenberg-Solomon RZ. Large pathway and gene set analysis of GWAS data identifies

novel associations for pancreatic cancer AACR Annual Meeting. April 14-18, 2018. Chicago, IL. *Cancer Res. 2018;78(13 Suppl):Abstract nr 242.*

32. **Wang Z**, Chang TC, Wilson CL, Kesserwan CA, Gibson TM, Li N, Easton J, Mulder H, Wu G, Edmonson MN, Rusch MC, Downing JR, Nichols KE, Bhatia S, Armstrong GT, Hudson MM, Zhang J, Yasui Y, Robison LL. Germline mutations in BRCA2 and pediatric/adolescent non-Hodgkin's Lymphoma: A report from the St. Jude Lifetime (SJLIFE) and Childhood Cancer Survivor Study (CCSS) Cohorts. AACR Annual Meeting. March 29-April 3, 2019. Atlanta, GA. Role: First author, corresponding author
33. **Wang Z**, Kesserwan CA, Mostafavi R, Chang TC, Li N, Wilson CL, Gibson TM, Qin N, Easton J, Mulder H, Wu G, Edmonson MN, Rusch MC, Downing JR, Bhatia S, Armstrong GT, Hudson MM, Zhang J, Yasui Y, Nichols KE, Robison LL. Monoallelic germline BRCA2 mutations increase the risk of pediatric/adolescent Non-Hodgkin Lymphoma: A report from the St. Jude Lifetime and Childhood Cancer Survivor Study Cohorts. AACR Annual Meeting. March 29-April 3, 2019. Atlanta, GA. Role: First author, corresponding author
34. Sapkota Y, Cheung YT, Moon W, Shelton K, Wilson CL, **Wang Z**, Mulrooney DA, Zhang J, Armstrong GT, Hudson MM, Robison LL, Krull KR, Yasui Y. Whole-genome sequencing of childhood cancer survivors treated with cranial radiation identifies 5p15.33 locus for stroke: A report from the St. Jude Lifetime Cohort Study. AACR Annual Meeting. March 29-April 3, 2019. Atlanta, GA. Role: First author, corresponding author
35. **Wang Z**, Liu Q, Wilson CL, Sapkota Y, Gibson TM, Morton L, Neglia J, Rusch M, Mulder H, Easton J, Zhang J, Downing J, Bhatia S, Armstrong GT, Chemaitilly W, Hudson MM, Robison LL, Yasui Y. Polygenic risk of subsequent thyroid cancer after childhood cancer: A report from the St. Jude Lifetime Cohort (SJLIFE) and Childhood Cancer Survivor Study (CCSS). ASCO Annual Meeting. Abstract # 266645. Chicago, IL. May 31-June 4, 2019. Role: First author
36. Ehrhardt MJ, Howell CR, Hale K, Baassiri MJ, Rodriguez C, Wilson CL, Joshi SS, Lemond TC, Shope S, Howell RM, **Wang Z**, Mulrooney DA, Zhang J, Robison LL, Ness KK, Hudson MM. Breast cancer risk and detection in female childhood cancer survivors in the St. Jude Lifetime Cohort Study (SJLIFE). (a) SIOP Annual Congress. Kyoto, Japan. November 16-19, 2018. (b) North American Symposium on Late Complications after Childhood Cancer. Atlanta, GA. June 20-22, 2019. Oral presentation.
37. Im C, Howell CR, Sapkota Y, Moon WJ, Chemaitilly W, Gibson TM, Mulrooney D, Ness KK, Wilson CL, **Wang Z**, Hudson MM, Robison LL, Yasui Y. The generalizability of general-population GWAS hits in childhood cancer survivors: An analysis of 12 anthropometric and cardiometabolic phenotypes in the St. Jude Lifetime Cohort Study (SJLIFE). NASLCCC Annual Meeting. Abstract # O31. Atlanta, GA. June 20-22, 2019. Oral presentation.
38. Flasch DA, Davis E, Rice S, Mulder H, Kennetz D, Mostafavi R, Wilson CL, Easton J, Nichols KE, **Wang Z**, Yasui Y, Robison LL, Zhang J. Assessment of germline structural variants in pediatric cancer survivors for cancer predisposition. ASHG Annual Meeting. Houston, TX. October 15-19, 2019.
39. Zhou X, Lei S, Shelton K, Bhakta N, Wang J, Sioson E, Patel J, **Wang Z**, Wilson CL, Yasui Y, Gout A, Hudson MM, Robison LL, Zhang J. Browse, visualize and analyze clinical and whole-genome data of 9,137 pediatric cancer survivors on the SJLIFE data portal. ASHG Annual Meeting. Houston, TX. October 15-19, 2019.
40. Lei S, Zhou X, **Wang Z**, Thrasher A, Rusch MC, Szlachta K, Rice SV, Brady SW, Ma X, Yasui Y, Hudson MM, Robison LL, Zhang J. A resource of curated genetic variation data generated from whole-genome sequencing of >3,000 long-term survivors of pediatric cancer. ASHG Annual Meeting. PgmNr 810/W. Houston, TX. October 15-19, 2019.

41. Sapkota Y, Mulrooney DA, Armstrong GT, Wilson CL, **Wang Z**, Zhang J, Hudson MM, Robison LL, Yasui Y. Novel loci linked to impaired ejection fraction and risk of cardiomyopathy among childhood cancer survivors of African-descent: A report from the St. Jude Lifetime Cohort. ASHG Annual Meeting. Abstract # 1921954. Houston, TX. October 15-19, 2019.
42. Song N, Li Z, Qin N, Howell CR, Wilson CL, Easton J, Mulder H, Edmonson MN, Rusch MC, Zhang J, Hudson MM, Yasui Y, Robison LL, Ness KK, **Wang Z**. Leukocyte telomere length and occurrence of chronic health conditions among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. ASHG Annual Meeting. PgmNr 34. Houston, TX. October 15-19, 2019. Role: Senior author
43. **Wang Z**, Qin N, Liu Q, Song N, Wilson CL, Shelton K, Easton J, Mulder H, Hennetz D, Edmonson MN, Rusch MC, Nichols KE, Hudson MM, Zhang J, Robison LL, Yasui Y. Risk of subsequent neoplasms among long-term survivors of childhood cancer: Germline mutations in DNA repair genes and cancer treatment exposures. ASHG Annual Meeting. Abstract # 1940028. Houston, TX. October 15-19, 2019. Role: First author
44. Qin N, Li Zhenghong, Song N, Easton J, Mulder H, Plyler E, Neale G, Walker E, Wilson CL, Hudson MM, Yasui Y, Robison LL, Zhang J, Ness KK, **Wang Z**. Epigenetic age acceleration and chronic health conditions among adult survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. AACR Annual Meeting 2020. Abstract # 16. San Diego, CA. April 24-29, 2020. Role: Corresponding author.
45. Sapkota Y, Qin N, Ehrhardt MJ, **Wang Z**, Wilson CL, Estep J, Rai P, Hankins JS, BurrIDGE PW, Jefferies JL, Zhang J, Hudson MM, Robison LL, Armstrong GT, Mulrooney DA, Yasui Y. Cardiomyopathy risk among childhood cancer survivors of African ancestry and its molecular mechanisms. ASCO Annual Meeting. Abstract #: 10514. Chicago, IL. May 29-June 2, 2020.
46. Song N, Sim JA, Dong Q, Zheng Y, Hou L, Li Z, Hsu CW, Pan H, Mulder H, Easton J, Walker E, Neale G, Wilson CL, Ness KK, Krull KR, Srivastava DK, Yasui Y, Zhang J, Hudson MM, Robison LL, Huang IC, **Wang Z**. A social epigenomic investigation of racial disparity in pulmonary impairment among aging survivors of childhood cancer. AACR Annual Meeting 2021. Abstract # 3590. Virtual. April 10-15; May 17-21, 2021. Role: Senior author
47. Dong Q, Song N, Sapkota Y, Zheng Y, Huang IC, Srivastava DK, Easton J, Mulder H, Neale G, Walker E, Zhang J, Hudson MM, Robison LL, **Wang Z**. Epigenome-wide association study of dyslipidemia in survivors of childhood cancer: A report from the St. Jude lifetime cohort. AACR Annual Meeting 2021. Abstract # 3701. Virtual. April 10-15; May 17-21, 2021. Role: Senior author

### **viii. Abstracts Accepted for Publication**

1. Williams AL, Mandelblatt J, Wang M, Ness KK, Armstrong GT, Bhakta N, Brinkman T, Chemaitilly W, Ehrhardt MJ, Mulrooney DA, Small B, **Wang Z**, Yasui Y, Srivastava DK, Hudson MM, Robison LL, Krull KR. Accelerated aging and mortality in long-term survivors of childhood cancer: a report from the St. Jude Lifetime Cohort (SJLIFE). ASCO Annual Meeting 2021. Abstract # 10045. Virtual. June 4-8, 2021.

### **ix. Abstracts Submitted for Review**

## **19. Presentations**

### **A. Oral Presentations**

1. Quality control and data analysis for genome-wide association studies. 1st Nature Genetics Conference. May 2011. Role: Invited speaker

2. Meta-analysis of five testicular cancer GWAS Studies. International Testicular Cancer Linkage Consortium. May 2014. Role: Invited speaker
3. Cancer genome-wide association studies. Faculty member. TATA Cancer Center. January 2015. Role: Invited speaker
4. Further confirmation of germline glioma risk variant, rs78378222 in TP53 and its implication in tumor tissues via integrative analysis of TCGA Data. DNA and Genome Day Symposium. April 25-28, 2015. Role: Invited speaker
5. Cancer genome-wide association studies: past, current & future. Distinguished Lecture. University of the Health Sciences and the Walter Reed National Military Medical Center. 2016. Role: Invited speaker
6. Investigation of cancer germline susceptibility using SNP arrays and next generation sequencing. Department of Preventive Medicine. Northwestern University. 2018. Role: Invited speaker
7. Genetic & epigenetic approaches towards understanding risk of chronic health conditions among survivors of childhood cancer. Biostatistics Research Seminar. St. Jude Children's Research Hospital. 2020. Role: Invited speaker
8. Genetic and epigenetic approaches towards understanding risk of chronic health conditions among survivors of childhood cancer. The Science of Childhood Cancer Lecture Series. St. Jude Children's Research Hospital. April 22, 2021. Role: Invited speaker

**B. Oral Presentations - Invited to Present**

8. Title TBA. Forbeck Forum. January 27-30, 2022. Role: Invited speaker