ZHAOMING WANG, PhD, MSc

Department of Epidemiology and Cancer Control
Department of Computational Biology
St. Jude Children's Research Hospital
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1. Current Position at St. Jude

Full Member — 09/2024-Present
Department of Epidemiology and Cancer Control (Primary)
Department of Computational Biology (Secondary)

2. Education and Training

BSc in Molecular Biology — 07/1992
East China Normal University
Shanghai, China

MSc in Mathematical Computer Science — 08/2000
University of Illinois at Chicago
Chicago, IL

PhD in Computational Biology and Bioinformatics — 08/2013
George Mason University
Fairfax, VA

3. Summary of Key Accomplishments:

From 2005 to 2015, I established myself as an expert in cancer germline genetics during my tenure as bioinformatics group leader in the Division of Cancer Epidemiology and Genetics (DCEG) at the National Cancer Institute (NCI). One of my most impactful contributions to the field of cancer genetics is designing the OncoArray for the Genetic Associations and Mechanisms in Oncology (GAME-ON) consortium in 2013, which led to a series of major publications around 2017.

I joined the St. Jude Children's Research Hospital (SJCRH) in 2015 as a staff Bioinformatics Scientist in the Department of Computational Biology to be a member of the leadership team of the St. Jude Lifetime Cohort (SJLIFE, NCI U01 CA195547; MPI: Hudson/Ness) genomics initiative. In 2018, I led the ground-breaking publication on genetic susceptibility to second cancers in Journal of Clinical Oncology and followed with a second major paper on monogenic and polygenic risk to subsequent breast cancer in Clinical Cancer Research. I was promoted to Associate Member of the faculty at SJCRH under the primary appointment with the Department of Epidemiology and Cancer Control and the secondary appointment with the Department of Computational Biology.

I'm currently co-chairing the Genetics and Genomics Working Group for the Cancer Control and Survivorship Program (CCSP) and a member in the Data Access Committee (DAC) for SJLIFE and Childhood Cancer Survivor Study (CCSS; NCI U24 CA055727; PI: Armstrong) expansion cohorts with

whole-genome sequencing (WGS) and whole-exome sequencing (WES) data available for ~8,000 participants. I have also overseen and am in the process of further expanding genetics and genomics projects using multiple grants that I developed from the National Cancer Institute, V Foundation for Cancer Research (DT2020-014), and SJCRH Comprehensive Cancer Center Developmental Funds Award (NCI P30 CA021765) and have completed DNA methylation EPIC BeadChip scan for 4,000+ SJLIFE participants at their baseline visits. Inspired by my colleague, Dr. Kirsten Ness, I expanded into aging biomarker research on childhood cancer survivors who are experiencing acceleration of aging and suffering from high burden of treatment- and aging- related chronic health conditions. Our successful collaborations in clinical aging research have led to a series of high-impact publications. In 2022, I became a member in the American Association of Cancer Research (AACR) Aging and Cancer Task Force and was invited to deliver a lecture in the Meet-the-Expert Session during AACR 2023 Annual Meeting.

My independent research program focuses on three areas: 1) Genetic epidemiology of cancers, both subsequent malignant neoplasms (SMNs) in long-term survivors and primary malignancies; 2) Biomarkers of biological aging among survivors of childhood cancer; and 3) Omics-based mechanistic understanding of late-effects. I have been an author on 210+ publications including many high-impact journals.

I'd like to highlight the following key publications:

Citations:

1. **Wang Z**, Wilson CL, John Easton, Thrasher A, Mulder H, Qi Liu, Hedges DJ, Wang S, Rusch M, Edmonson M, Levy S, Lanctot JQ, Caron E, Shelton K, Currie K, Lear M, Patel A, Rosencrance C, Shao Y, Vadodaria B, Yergeau D, Sapkota Y, Brooke RJ, Moon W, Rampersaud E, Ma X, Chang TC, Rice SV, Pepper C, Zhou X, Chen X, Chen W, Jones A, Boone B, Ehrhardt MJ, Krasin MJ, Howell RM, Phillips NS, Lewis C, Srivastava D, Pui CH, Kesserwan CA, Wu G, Nichols KE, Downing JR, Hudson MM, Yasui Y, Robison LL, Zhang J. Genetic risk for subsequent neoplasms among long-term survivors of childhood cancer. J Clin Oncol. 2018 Jul 10;36(20):2078-2087. PMID: 29847298. Role: First author

2. Qin N, **Wang Z**, Liu Q, Song N, Wilson CL, Ehrhardt MJ, Shelton K, Easton J, Mulder H, Kennetz D, Edmonson MN, Rusch MC, Downing JR, Hudson MM, Nichols KE, Zhang J, Robison LL, Yasui Y. Pathogenic germline mutations in DNA repair genes in combination with cancer treatment exposures and risk of subsequent neoplasms among long-term survivors of childhood cancer. J Clin Oncol. 2020 Aug 20;38(24):2728-2740. PMID: 32496904. Role: Corresponding author

3. Plonski NM, Chen C, Dong Q, Song N, Shelton K, Finch E, Easton J, Mulder H, Zhang J, Neale G, Walker E, Wang H, Krull KR, Ness KK, Hudson MM, Robison LL, Li Q, Williams AM, **Wang Z**. Epigenetic age in peripheral blood among children, adolescent, and adult survivors of childhood cancer. JAMA Netw Open. 2023 Apr 3;6(4):e2310325. PMID: 37115548. Role: Senior & Corresponding author

4. Chen C, Qin N, Wang M, Dong Q, Tithi SS, Hui Y, Chen W, Wu G, Kennetz D, Edmonson MN, Rusch MC, Thrasher A, Easton J, Mulder HL, Song N, Plonski NM, Shelton K, Im C, Ehrhardt MJ, Nichols KE, Leisenring WM, Stratton KL, Howell R, Yasui Y, Bhatia S, Armstrong GT, Ness KK, Hudson MM, Zhang J, Wang H, Srivastava DK, Robison LL, **Wang Z**. Cancer germline predisposing variants and late mortality from subsequent malignant neoplasms among long-term childhood cancer survivors: A report from the St. Jude Lifetime Cohort and the Childhood Cancer Survivor Study. Lancet Oncol. 2023 Oct;24(10):1147-1156. PMID: 37797633. Role: Senior & Corresponding author

5. Guida J, Hyun G, Belsky DW, Armstrong GT, Ehrhardt MJ, Hudson MM, Green PA, Robison LL, Streck BP, Tonorezos ES, Yasui Y, Wilson CL, **Wang Z**, Ness KK. Associations of seven measures

of biological age acceleration with frailty and all-cause mortality among adult survivors of childhood cancer in the St. Jude Lifetime Cohort. Nat Cancer. 2023 Aug 17. Role: Co-Senior author

4. Professional Career

Research Associate The Shanghai Institute of Plant Physiology Chinese Academy of Sciences Shanghai, China	07/1992-06/1997
Senior Software Developer JDA Software Inc. Rockville, MD	09/2000-12/2005
Senior Bioinformatics Analyst Cancer Genomics Research Laboratory Division of Cancer Genetics and Epidemiology National Cancer Institute Gaithersburg, MD	12/2005-10/2010
Group Leader, Bioinformatics Cancer Genomics Research Laboratory Division of Cancer Genetics and Epidemiology National Cancer Institute Gaithersburg, MD	10/2010-08/2015
Bioinformatics Scientist, SJLIFE Genomics Lead Department of Computational Biology	08/2015-09/2018
Associate Member (Primary appointment) Department of Epidemiology and Cancer Control (Primary) Department of Computational Biology (Secondary)	09/2018-09/2024
Full Member Department of Epidemiology and Cancer Control (Primary) Department of Computational Biology (Secondary)	09/2024-Present

5. Professional Memberships

American Society of Human Genetics (ASHG) Rockville, MD	2005-Present
International Society of Genetic Epidemiology (IGES)	2008-2014
American Association for Cancer Research (AACR) Philadelphia, PA	2010-Present

6. Editorial Board Appointments

Academic Editor BioMed Research International	2013-Present

Academic Editor Advances in Medicine	2013-Present
Guest Editor, Special Issue: DNA Damage and Repair in Human Diseases Journal of Translational Genetics and Genomics	2021-2022
Topical Advisory Panel Member for Pediatric Oncology Cancers	2022-Present
Guest Editor, Special Issue: Genetic Risks for Pediatric Cancers and Cancer-related Outcomes Genes	2023-Present

7. Grant Review/Study Activities

NCTRI Study Section ZHD1 DSR-M 55 1 National Centers for Translational Research in Reproduction and Infertility (NCTRI)	July 2020
NCI Study Section PAR-18-767: Comprehensive Partnerships to Advance Cancer Health Equity National Cancer Institutes (NCI) and University of Alabama at Birmingham (UAB)	August 2020
NCI Study Section PAR-20-305: Specialized Programs of Research Excellence (SPORE) National Cancer Institutes (NCI)	June 2022
Peer Review Committee: Cancer Detection and Progression (CDP) American Cancer Society (ACS)	June 2023
Ad Hoc Reviewer: Biomarkers Project Dutch Cancer Society	August 2023
NIH Study Section The Aging, Injury, Musculoskeletal, and Rheumatologic Disorders (AIMR)	November 2023
Peer Review Committee Standing Member: Cell Biology and Preclinical Cancer Research Program, Cancer Detection and Progression (CDP) American Cancer Society (ACS)	January 2024 - December 2026
NIH Study Section The Aging, Injury, Musculoskeletal, and Rheumatologic Disorders (AIMR)	March 2024
NIH Study Section The Aging, Injury, Musculoskeletal, and Rheumatologic Disorders (AIMR)	July 2024

8. Honors and Awards

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

National Cancer Institute (NCI)

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

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

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
United States Department of Defense (DOD)

9. Institutional and Committee Assignments

Member 04/2018-Present
St. Jude Cloud SJLIFE and CCSS Data Access Committee
St. Jude Children's Research Hospital

Member 08/2023-Present
Biorepository Oversight Committee
St. Jude Children's Research Hospital

10. Professional Administrative Services

Ad Hoc Reviewer 2012-Present
British Journal of Cancer (Br J Cancer)

Ad Hoc Reviewer 2012-Present
BMC Cancer

Ad Hoc Reviewer 2012-Present
Cancer Epidemiology, Biomarkers and Prevention (Cancer Epidemiol Biomarkers Prev)

Ad Hoc Reviewer 2012-Present
Carcinogenesis

Ad Hoc Reviewer 2012-Present
Clinical Cancer Research (Clin Cancer Res)

Ad Hoc Reviewer 2012-Present
EBioMedicine

Ad Hoc Reviewer 2012-Present
Genome Biology (Genome Biol)

Ad Hoc Reviewer Human Mutation (Hum Mutat)	2012-Present
Ad Hoc Reviewer Human Molecular Genetics (Hum Mol Genet)	2012-Present
Ad Hoc Reviewer Journal of Translational Medicine (J Transl Med)	2012-Present
Ad Hoc Reviewer Lung Cancer	2012-Present
Ad Hoc Reviewer Oncogene	2012-Present
Ad Hoc Reviewer PLoS one (PLoS One)	2012-Present
Ad Hoc Reviewer Scientific Reports (Sci Rep)	2012-Present
Ad Hoc Reviewer Oncotarget	2015
Co-Chair, Speaker 13th Internal Congress of Human Genetics Kyoto, Japan	2016
Ad Hoc Reviewer Journal of Clinical Oncology (J Clin Oncol)	2018-Present
Ad Hoc Reviewer Nature Communications (Nat Commun)	2018-Present
Ad Hoc Reviewer Immunologic Research (Immunol Res)	2018-Present
Ad Hoc Reviewer Nature Genetics (Nat Genet)	2018-Present
Ad Hoc Reviewer Genome Medicine (Genome Med)	2018-Present
Session Chair Session 23: Pediatric Oncology International Congress of Cancer & Clinical Oncology Republic of Singapore	December 2019
Ad Hoc Reviewer International Journal of Cancer (Int J Cancer)	2021-Present
Ad Hoc Reviewer Blood Advances (Blood Adv)	2021-Present

Investigator 2021-Present
Trans-Omics for Precision Medicine (TOPMed) Program
National Heart, Lung, and Blood Institute

Member 2022-Present
Aging and Cancer Task Force
American Association of Cancer Research (AACR)

Member 2022-Present
Testicular Cancer Consortium (TECAC)
Perelman School of Medicine, University of Pennsylvania

Ad Hoc Reviewer 2022-Present
Pediatric Blood and Cancer (Pediatr Blood Cancer)

Platform Session Chair October 2022
Influence of germline variants on somatic genomic features in cancer risk and progression
American Society of Human Genetics (ASHG) Annual Meeting

Member & Reviewer 2022
Population Sciences Section, Population Sciences Subcommittee
2023 Annual Meeting Program Committee
American Association for Cancer Research (AACR)

Ad Hoc Reviewer 2023-Present
Bioinformatics

Ad Hoc Reviewer 2024-Present
Blood Cancer Journal (Blood Cancer J)

11. Formal Education and Teaching Activities

University Teaching

Computational Biology mini-course 2019-2021
Role: Instructor
St. Jude Graduate School of Biomedical Sciences
Memphis, Tennessee

Faculty

Qian Li, PhD 2021-Present
Assistant Member
Role: Mentoring Committee Member
Biostatistics Department
St. Jude Children's Research Hospital
Memphis, Tennessee

Kendrick Li, PhD 2023-Present
Assistant Member
Role: Mentoring Committee Member

Biostatistics Department
St. Jude Children's Research Hospital
Memphis, Tennessee

Graduate and Post-Doctoral Students, Fellows

Nan Song, PhD, BPharm 2019-2021
Post-Doctoral Research Associate
Role: Mentor
Current Position: Assistant Professor, Department of Pharmacy
Chungbuk National University
Cheongju, South Korea

Na Qin, MD 2019-2020
PhD Candidate, Nanjing Medical University
Role: Mentor
Current Position: Associate Professor, Department of Epidemiology
Nanjing Medical University
Nanjing, China

Qian Dong, PhD 2020-2022
Post-Doctoral Research Associate
Role: Mentor
Current Position: Lead Biostatistician
Department of Epidemiology and Cancer Control
St. Jude Children's Research Hospital
Memphis, Tennessee

Zhenghong Li, PhD 2020-2021
PhD Candidate, Department of Mathematic Sciences, University of Memphis
Role: Co-Mentor
Current Position: Principal Statistician
GSK Pharmaceutical Manufacturing
Upper Providence, PA

Noel-Marie Plonski, PhD 2022-Present
Post-Doctoral Research Associate
Role: Mentor
Department of Epidemiology and Cancer Control
St. Jude Children's Research Hospital
Memphis, Tennessee

Halil Toy, PhD 2022-2023
Post-Doctoral Research Associate
Role: Mentor
Department of Epidemiology and Cancer Control
St. Jude Children's Research Hospital
Memphis, Tennessee

Cheng Chen 2022-2024
PhD Candidate, Stipend Student
Role: Mentor
Shanghai Jiaotong University
Shanghai, China

Tiffany Eulalio, PhD
Post-Doctoral Research Associate 2024-Present
Role: Mentor
Department of Epidemiology and Cancer Control
St. Jude Children's Research Hospital
Memphis, Tennessee

Yoonji Kim, PhD 2024-Present
Post-Doctoral Research Associate
Role: Mentor
Department of Epidemiology and Cancer Control
St. Jude Children's Research Hospital
Memphis, Tennessee

12. Grant Awards

A. Active Grants

U01 CA195547, NCI Hudson/Ness (MPI) 07/2015-06/2025
St. Jude Lifetime Cohort (SJLIFE)
Expand eligibility to make the SJLIFE cohort a medically assessed cohort of 5-year survivors, undertake uniform medical assessments in all cohort participants, develop innovative methodologies to maintain the SJLIFE cohort, establish a resource for future innovative intervention-based research.
Status of support: Active
Role: Co-Investigator
Total award amount: $6,169,879
Percentage of effort: 2.5% calendar year

DT2020-014, V-Foundation Wang/Huang (MPI) 01/2021-01/2025
Thrivership
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.
Status of support: Active
Role: PI
Total award amount: $600,000
Percentage of effort: 25% calendar year

R01 CA283333, NCI Wang/Im (MPI) 05/2024 - 04/2029
Genetic Pleiotropy Across Pediatric Cancers, and Cancer-Related Outcomes
Identify pleiotropic common low-penetrant susceptibility alleles and pleiotropic predisposition genes harboring rare highly-penetrant variants across pediatric cancers. Assess the contributions of genetic pleiotropy to risks for developing specific pediatric cancers using PRS, genetic correlation and shared heritability estimation. Evaluate how pleiotropic pediatric cancer genetic susceptibility informs risks for primary cancer and cancer-related outcomes (including relapse, subsequent malignancies, and mortality).
Status of support: Active

Role: PI
Total award amount: $4,037,006
Percentage of effort: 22.5% calendar year

R01 CA290112, NCI Wang (PI) 05/2024-04/2029
Genomics-based Mechanistic Investigation of Cancer-treatment Related Cardiotoxicity among Survivors of Childhood Cancer
Evaluate and validate genetic factors (specifically, pathogenic and likely pathogenic germline variants in genes of DNA repair, immune response, and drug metabolism) for cardiometabolic risk. Evaluate and validate epigenetic factors (specifically, DNA methylation) as mediators of the association between cancer treatment exposures or health behaviors and cardiometabolic risk. Evaluate and validate aging biomarkers (clonal hematopoiesis, leukocyte telomere length, and epigenetic age) as cardiometabolic risk predictors independent of genetic and epigenetic factors.
Status of support: Active
Role: PI
Award amount: $3,784,061
Percentage of effort: 25% calendar year

R01 CA279520, NCI Wang (PI) 05/2024-04/2029
Trajectories of Epigenetic Aging and Health Outcomes in Childhood Cancer Survivors
To examine the effect of health behaviors and SDOH factors on the rate of change in EAA among survivors of childhood cancer. To evaluate the association between the rate of change in EAA and subsequent long-term outcomes including prevalence/severity/cumulative burden of CHCs and mortality among survivors of childhood cancer. To determine the impact of behavioral interventions for physical fitness and sleep quality on the changes in EAA.
Status of Support: Active
Role: PI
Total award amount: $4,390,324
Percentage of effort: 25% calendar year

T32 CA225590, NCI Krull (PI) 07/2024-08/2028
Training in Pediatric Cancer Survivorship Outcomes and Interventions
To develop the next generation of scientific leaders with the interdisciplinary skills and knowledge that is necessary to become world-class competitive scientists in the area of pediatric cancer survivorship.
Status of Support: Active
Role: Participating Faculty Member
Total award amount: $1,501,912

B. Pending Grants

R01, NCI HUANG/XU (MPI) 07/2025 - 06/2030
Influence of Environmental Exposures on Long-Term Health Outcomes Amidst Climate Change in Childhood Cancer Survivors (E2C2)
To assess individual and synergistic effects of PM2.5, O3 and temperature extremes on mortality and CHC progression (onset or worsening) in clinically assessed 5-year childhood cancer survivors. To assess the mediation of DNA methylation and symptom burden in the relationship between PM2.5, O3 and temperature extremes and their effects on mortality and CHC progression in childhood cancer survivors. To identify the individual- and neighborhood-level factors that modify the effects of exposures to PM2.5, O3 and temperature extremes on mortality and CHC progression in childhood cancer survivors.
Status of support: Pending
Role: Co-Investigator

Total award amount: $2,925,850
Percentage of effort: 5% calendar months

U01 CA301480, NCI Hudson/Ness (MPI) 07/2025-06/2030
The St. Jude Lifetime Cohort Study
Perform deeper phenotyping of SJLIFE participants with established CHCs elucidate mechanisms contributing to pathophysiology of disease progression and identify novel targets for future interventions. Perform deeper phenotyping of SJLIFE participants at risk of CHCs to facilitate early detection of pathophysiologic targets appropriate for remediation. Enhance characterization of longitudinal social determinants of health to examine how living conditions and structural inequality interact with personal social integrations to influence progression of CHC and contribute to health disparities.
Status of support: Pending
Role: Co-Investigator
Total award amount: $6,329,583
Percentage of effort: 2.5% calendar year

K99, WashU Lan (PI) 09/2025-08/2030
Diet Quality During Chemotherapy and Biological Aging in Breast Cancer Survivors
Examine the association between diet quality and biological aging acceleration in adult survivors of childhood cancer in the SJLIFE. Assess the rate of changes in biological aging during and after chemotherapy in breast cancer survivors. Explore whether diet quality during chemotherapy is associated with the rate of changes in biological aging from before to during and after chemotherapy in breast cancer survivors.
Status of support: In preparation
Role: Co-Mentor
Total award: $997,000

P30 CA021765, NCI Wang/Ni (PI) 03/2025-02/2026
Defining Metabolic Signatures of Accelerated Aging and Increased Chronic Health Risks in Childhood Cancer Survivors - St. Jude Cancer Center Supplement
Identify age-related metabolic properties in childhood cancer survivors. Determine metabolic signatures to assess metabolomic age, evaluate its genetic and epigenetic risk factors, and association between metabolic age acceleration and the risk of CHCs.
Status of support: In preparation *[can change to pending 12/01/2024]*
Role:PI
Total award amount $100,000

U01 NIH Zhou/Zhang/Yasui 07/2025-06/2028
Tracking Progression of Adverse Outcomes on the Childhood Cancer Survivorship Portal (ITCR)
Architectural redesign to enable longitudinal and geographical data sharing, visualization, and analysis. Establishing a comprehensive and up-to-date resource for germline pathogenic and likely pathogenic (P/LP) variants in the context of disease relevance and biological pathways. Developing an infrastructure for exploring therapy-related clonal hematopoiesis (CH) and differential methylation (DM) in bulk and single-cell samples.
Status of support: Pending
Role: Co-Investigator
Total award amount: TBA

Effort: TBA

R01, NCI Huang/Xi/Park 12/2025-11/2030
Food Environment and Climate Change Effects on Health Outcomes in Childhood Cancer Survivors. To evaluate the individual and combined effects of inequitable food environments and climate-related stressors on mortality and CHC progression in clinically assessed 5-year childhood cancer survivors. To investigate the mediating effects of dietary quality, DNA methylation, and psychological distress in relationships between food environment inequities, climate-related environmental stressors, and their effects on mortality and CHC progression in survivors. To identify individual- and neighborhood-level factors that modify the effects of exposure to inequitable food environments and climate-related stressors on mortality and CHC progression in survivors.
Status of Support: In preparation
Role: Co-Investigator
Total Award amount: TBA
Effort: 5% per calendar year (tentative)

C. Completed Grants

OT3 TR002026, NCATS Zhang (PI) 09/2016-08/2018
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.
Status of support: Complete
Role: Co-Investigator
Total award amount: $43,763
Percentage of effort: 5% calendar year

R01 CA215405, NCI Krull/Mandrell (MPI) 01/2020-07/2023
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.
Status of support: Complete
Role: Co-Investigator
Total award amount: $3,464,380
Percentage of effort: 5% calendar year

U01 CA195547, NCI Hudson/Ness (MPI) 07/2021-06/2023
Epigenetic Age Acceleration Among Adolescent Survivors of Childhood Cancer - SJLIFE Supplement
Augment existing methylation data to allow for more complete (earlier) examination of the trajectory of aging among adolescent survivors of childhood cancer. Evaluate prospective contributions of EAA to the risk of early onset chronic diseases among adolescent survivors of childhood cancer.

Status of support: Complete
Role: Co-Investigator
Total award amount: $149,703
Percentage of effort: 10% calendar year

U01 CA195547-07S1, NCI Hudson/Krull (MPI) 07/2021-06/2023
Brain Age in Adult Survivors of Childhood Leukemia and CNS Tumor - SJLIFE Supplement
To evaluate brain age in adult survivors of childhood leukemia and CNS tumor compared to controls. To identify demographic and clinical/treatment factors associated with accelerated brain age in survivors. To examine associations between accelerated brain age with neurocognitive impairment, chronic health conditions and aging biomarkers in the adult survivors.
Status of support: Complete
Role: Co-Investigator
Total award amount: $448,748
Percentage of effort: 10% calendar year

P30 CA021765 Wang/Chen (MPI) 07/2022-06/2024
Single Cell Genomics and Accelerated Cellular Aging Among Long-Term Survivors of Cancer - St. Jude Cancer Center Developmental Funds Award
To evaluate EA, clonal hematopoiesis (CH), and the link between these two at single-cell resolution, identify transcriptional signatures of EA and CH mutation, and assess the variabilities of EA and CH within and across major leukocyte subtypes among aging adult survivors of childhood cancer. To evaluate the cell type-specific rates of biological aging based on EA and CH measures at two time points and correlate the cell type-specific rates of biological aging with incident chronic health conditions (CHCs).
Status of support: Complete
Role: PI
Total award amount: $174,000

R21 CA261833, NCI Im/Yuan (PI) 09/2022-08/2024
Treatment-Specific Genetic Risk Scores for Late Effects Prediction in Childhood, Adolescent, and Young Adult Cancer Survivors
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.
Status of Support: Complete
Role: Co-Investigator
Total award amount: $256,537
Percentage of effort: 1% calendar year

P30 CA021765, NCI Bagga/Wang (MPI) 07/2023-06/2024
Imaging Skeletal Muscle Mitochondrial OXPHOS Activity in Acute Lymphoblastic Leukemia survivors: A pilot study - St. Jude Cancer Center Developmental Funds Award
To compare muscle mtOXPHOS activity and satellite cell content among ALL survivors and controls. To evaluate the association between muscle mtOXPHOS, muscle satellite cell content and physical performance in ALL survivors.
Status of Support: Complete
Role: MPI
Total award amount: $90,000

13. 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. 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. PMID: 17529973.

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. 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. PMID: 18596976.

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. PMID: 19330030.

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 19423540.

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. PMID: 19767755.

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, Skorpen F, Arnesen E, Benhamou S, Bouchard C, Metspalu A, Vooder T, Nelis M, Välk 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. PMID: 19836008. *Erratum: Am J Hum Genet. 2011 Jun 10;88(6):861. Metsapalu, Andres [corrected to Metspalu, Andres]. PMID: 28472664.*

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. PMID: 20101243.

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. PMID: 20206333.

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 (Wang Z)**, 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. PMID: 20526366.

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. PMID: 20729852.

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. PMID: 20967209. 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, Kiemeney 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, Tjonneland 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. PMID: 20972438.

15. Purdue MP, Johansson M, Zelenika D, Toro JR, Scelo G, Moore LE, Prokhortchouk E, Wu X, Kiemeney 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. PMID: 21131975.

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. PMID: 21537398.

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. PMID: 21619704.

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. PMID: 21318478.

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. PMID: 21602798.

20. Hinch AG, Tandon A, Patterson N, Song Y, Rohland N, Palmer CD, Chen GK, Wang K, Buxbaum SG, Akylbekova 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. PMID: 21775986.

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. PMID: 21576123.

22. Schumacher FR, Berndt SI, Siddiq A, Jacobs KB, **Wang Z**, Lindstrom S, Stevens VL, Chen C, Mondul AM, Travis RC, Stram DO, Eeles RA, Easton DF, Giles G, Hopper JL, Neal DE, Hamdy FC, Donovan JL, Muir K, Al Olama AA, Kote-Jarai Z, Guy M, Severi G, Grönberg H, Isaacs WB, Karlsson R, Wiklund F, Xu J, Allen NE, Andriole GL, Barricarte A, Boeing H, Bueno-de-Mesquita HB, Crawford ED, Diver WR, Gonzalez CA, Gaziano JM, Giovannucci EL, Johansson M, Le Marchand L, Ma J, Sieri S, Stattin P, Stampfer MJ, Tjonneland A, Vineis P, Virtamo J, Vogel U, Weinstein SJ, Yeager M, Thun MJ, Kolonel LN, Henderson BE, Albanes D, Hayes RB, Feigelson HS, Riboli E, Hunter DJ, Chanock SJ, Haiman CA, Kraft P. Genome-wide association study identifies new prostate cancer susceptibility loci. Hum Mol Genet. 2011 Oct 1;20(19):3867-3875. PMID: 21743057.

23. Garcia-Closas M, Ye Y, Rothman N, Figueroa JD, Malats N, Dinney CP, Chatterjee N, Prokunina-Olsson L, **Wang Z**, Lin J, Real FX, Jacobs KB, Baris D, Thun M, De Vivo I, Albanes D, Purdue MP, Kogevinas M, Kamat AM, Lerner SP, Grossman HB, Gu J, Pu X, Hutchinson A, Fu YP, Burdett L, Yeager M, Tang 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, Hunter DJ, Caporaso N, Landi MT, Fraumeni JF Jr, Silverman DT, Chanock SJ, Wu X. A genome-wide association study of bladder cancer identifies a new susceptibility locus within SLC14A1, a urea transporter gene

on chromosome 18q12.3. Hum Mol Genet. 2011 Nov 1;20(21):4282-4289. PMID: 21824976.

24. Park JH, Gail MH, Weinberg CR, Carroll RJ, Chung CC, **Wang Z**, Chanock SJ, Fraumeni JF Jr, Chatterjee N. Distribution of allele frequencies and effect sizes and their interrelationships for common genetic susceptibility variants. Proc Natl Acad Sci U S A. 2011 Nov 1;08(44):18026-18031. PMID: 22003128.

25. **Wang Z**, Jacobs KB, Yeager M, Hutchinson A, Sampson J, Chatterjee N, Albanes D, Berndt SI, Chung CC, Diver WR, Gapstur SM, Teras LR, Haiman CA, Henderson BE, Stram D, Deng X, Hsing AW, Virtamo J, Eberle MA, Stone JL, Purdue MP, Taylor P, Tucker M, Chanock SJ. Improved imputation of common and uncommon SNPs with a new reference set. Nat Genet. 2011 Dec 27;44(1):6-7. PMID: 22200770. Role: First author

26. Menashe I, Figueroa JD, Garcia-Closas M, Chatterjee N, Malats N, Picornell A, Maeder D, Yang Q, Prokunina-Olsson L, **Wang Z**, Real FX, Jacobs KB, Baris D, Thun M, Albanes D, Purdue MP, Kogevinas M, Hutchinson A, Fu YP, Tang W, Burdette L, Tardón A, Serra C, Carrato A, García-Closas R, Lloreta J, Johnson A, Schwenn M, Schned A, Andriole G Jr, Black A, Jacobs EJ, Diver RW, Gapstur SM, Weinstein SJ, Virtamo J, Caporaso NE, Landi MT, Fraumeni JF Jr, Chanock SJ, Silverman DT, Rothman N. Large-scale pathway-based analysis of bladder cancer genome-wide association data from five studies of European background. PLoS One. 2012;7(1):e29396. PMID: 22238607.

27. Yu K, Wacholder S, Wheeler W, **Wang Z**, Caporaso N, Landi MT, Liang F. A flexible Bayesian model for studying gene-environment interaction. PLoS Genet. 2012 Jan;8(1):e1002482. PMID: 22291610.

28. Wu X, Scelo G, Purdue MP, Rothman N, Johansson M, Ye Y, **Wang Z**, Zelenika D, Moore LE, Wood CG, Prokhortchouk E, Gaborieau V, Jacobs KB, Chow WH, Toro JR, Zaridze D, Lin J, Lubinski J, Trubicka J, Szeszenia-Dabrowska N, Lissowska J, Rudnai P, Fabianova E, Mates D, Jinga V, Bencko V, Slamova A, Holcatova I, Navratilova M, 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, Stevens VL, Thun MJ, Diver WR, Gapstur SM, Pharoah PD, Easton DF, Albanes D, Virtamo J, Vatten L, Hveem K, Fletcher T, Koppova K, Cussenot O, Cancel-Tassin G, Benhamou S, Hildebrandt MA, Pu X, Foglio M, Lechner D, Hutchinson A, Yeager M, Fraumeni JF Jr, Lathrop M, Skryabin KG, McKay JD, Gu J, Brennan P, Chanock SJ. A genome-wide association study identifies a novel susceptibility locus for renal cell carcinoma on 12p11.23. Hum Mol Genet. 2012 Jan 15;21(2):456-462. PMID: 22010048.

29. Shi J, Chatterjee N, Rotunno M, Wang Y, Pesatori AC, Consonni D, Li P, Wheeler W, Broderick P, Henrion M, Eisen T, **Wang Z**, Chen W, Dong Q, Albanes D, Thun M, Spitz MR, Bertazzi PA, Caporaso NE, Chanock SJ, Amos CI, Houlston RS, Landi MT. Inherited variation at chromosome 12p13.33, including RAD52, influences the risk of squamous cell lung carcinoma. Cancer Discov. 2012 Feb;2(2):131-139. PMID: 22585858.

30. Lee P, Fu YP, Figueroa JD, Prokunina-Olsson L, Gonzalez-Bosquet J, Kraft P, **Wang Z**, Jacobs KB, Yeager M, Horner MJ, Hankinson SE, Hutchinson A, Chatterjee N, Garcia-Closas M, Ziegler RG, Berg CD, Buys SS, McCarty CA, Feigelson HS, Thun MJ, Diver R, Prentice R, Jackson R, Kooperberg C, Chlebowski R, Lissowska J, Peplonska B, Brinton LA, Tucker M, Fraumeni JF Jr, Hoover RN, Thomas G, Hunter DJ, Chanock SJ. Fine mapping of 14q24.1 breast cancer susceptibility locus. Hum Genet. 2012 Mar;131(3):479-490. PMID: 21959381.

31. Abnet CC, **Wang Z**, Song X, Hu N, Zhou FY, Freedman ND, Li XM, Yu K, Shu XO, Yuan JM, Zheng W, Dawsey SM, Liao LM, Lee MP, Ding T, Qiao YL, Gao YT, Koh WP, Xiang YB, Tang ZZ, Fan JH, Chung CC, Wang C, Wheeler W, Yeager M, Yuenger J, Hutchinson A, Jacobs KB, Giffen CA, Burdett L, Fraumeni JF Jr, Tucker MA, Chow WH, Zhao XK, Li JM, Li AL, Sun LD, Wei W, Li JL, Zhang P, Li HL, Cui WY, Wang WP, Liu ZC, Yang X, Fu WJ, Cui JL, Lin HL, Zhu WL, Liu M, Chen X, Chen J, Guo L, Han JJ, Zhou SL, Huang J, Wu Y, Yuan C, Huang J, Ji AF, Kul JW, Fan ZM, Wang JP, Zhang DY, Zhang LQ, Zhang W, Chen YF, Ren JL, Li XM, Dong JC, Xing GL, Guo ZG, Yang JX, Mao YM, Yuan Y, Guo ET, Zhang W, Hou ZC, Liu J, Li Y, Tang S, Chang J, Peng XQ, Han M, Yin WL, Liu YL, Hu YL, Liu Y, Yang LQ, Zhu FG, Yang XF, Feng XS, **Wang Z**, Li Y, Gao SG, Liu HL, Yuan L, Jin Y, Zhang YR, Sheyhidin I, Li F, Chen BP, Ren SW, Liu B, Li D, Zhang GF, Yue WB, Feng CW, Qige Q, Zhao JT, Yang WJ, Lei GY, Chen LQ, Li EM, Xu LY, Wu ZY, Bao ZQ, Chen JL, Li XC, Zhuang X, Zhou YF, Zuo XB, Dong ZM, Wang LW, Fan XP, Wang J, Zhou Q, Ma GS, Zhang QX, Liu H, Jian XY, Lian SY, Wang JS, Chang FB, Lu CD, Miao JJ, Chen ZG, Wang R, Guo M, Fan ZL, Tao P, Liu TJ, Wei JC, Kong QP, Fan L, Wang XZ, Gao FS, Wang TY, Xie D, Wang L, Chen SQ, Yang WC, Hong JY, Wang L, Qiu SL, Goldstein AM, Yuan ZQ, Chanock SJ, Zhang XJ, Taylor PR, Wang LD. Genotypic variants at 2q33 and risk of esophageal squamous cell carcinoma in China: A meta-analysis of genome-wide association studies. Hum Mol Genet. 2012 May 1;21(9):2132-2141. PMID: 22323360. Role: Co-First author

32. Sampson JN, Jacobs K, **Wang Z**, Yeager M, Chanock S, Chatterjee N. A two-platform design for next generation genome-wide association studies. Genet Epidemiol. 2012 May;36(4):400-408. PMID: 22508365.

33. Bhattacharjee S, Rajaraman P, Jacobs KB, Wheeler WA, Melin BS, Hartge P; **GliomaScan Consortium (Wang Z)**, Yeager M, Chung CC, Chanock SJ, Chatterjee N. A subset-based approach improves power and interpretation for the combined analysis of genetic association studies of heterogeneous traits. Am J Hum Genet. 2012 May 4;90(5):821-835. PMID: 22560090.

34. Jacobs KB, Yeager M, Zhou W, Wacholder S, **Wang Z**, Rodriguez-Santiago B, Hutchinson A, Deng X, Liu C, Horner MJ, Cullen M, Epstein CG, Burdett L, Dean MC, Chatterjee N, Sampson J, Chung CC, Kovaks J, Gapstur SM, Stevens VL, Teras LT, Gaudet MM, Albanes D, Weinstein SJ, Virtamo J, Taylor PR, Freedman ND, Abnet CC, Goldstein AM, Hu N, Yu K, Yuan JM, Liao L, Ding T, Qiao YL, Gao YT, Koh WP, Xiang YB, Tang ZZ, Fan JH, Aldrich MC, Amos C, Blot WJ, Bock CH, Gillanders EM, Harris CC, Haiman CA, Henderson BE, Kolonel LN, Le Marchand L, McNeill LH, Rybicki BA, Schwartz AG, Signorello LB, Spitz MR, Wiencke JK, Wrensch M, Wu X, Zanetti KA, Ziegler RG, Figueroa JD, Garcia-Closas M, Malats N, Marenne G, Prokunina-Olsson L, Baris D, Schwenn M, Johnson A, Landi MT, Goldin L, Consonni D, Bertazzi PA, Rotunno M, Rajaraman P, Andersson U, Beane Freeman LE, Berg CD, Buring JE, Butler MA, Carreon T, Feychting M, Ahlbom A, Gaziano JM, Giles GG, Hallmans G, Hankinson SE, Hartge P, Henriksson R, Inskip PD, Johansen C, Landgren A, McKean-Cowdin R, Michaud DS, Melin BS, Peters U, Ruder AM, Sesso HD, Severi G, Shu XO, Visvanathan K, White E, Wolk A, Zeleniuch-Jacquotte A, Zheng W, Silverman DT, Kogevinas M, Gonzalez JR, Villa O, Li D, Duell EJ, Risch HA, Olson SH, Kooperberg C, Wolpin BM, Jiao L, Hassan M, Wheeler W, Arslan AA, Bueno-de-Mesquita HB, Fuchs CS, Gallinger S, Gross MD, Holly EA, Klein AP, LaCroix A, Mandelson MT, Petersen G, Boutron-Ruault MC, Bracci PM, Canzian F, Chang K, Cotterchio M, Giovannucci EL, Goggins M, Hoffman Bolton JA, Jenab M, Khaw KT, Krogh V, Kurtz RC, McWilliams RR, Mendelsohn JB, Rabe KG, Riboli E, Tjønneland A, Tobias GS, Trichopoulos D, Elena JW, Yu H, Amundadottir L, Stolzenberg-Solomon RZ, Kraft P, Schumacher F, Stram D, Savage SA, Mirabello L, Andrulis IL, Wunder JS, Patiño García A, Sierrasesúmaga L, Barkauskas DA, Gorlick RG, Purdue M, Chow WH, Moore LE, Schwartz KL, Davis FG, Hsing AW, Berndt SI, Black A, Wentzensen N, Brinton LA, Lissowska J, Peplonska B, McGlynn KA, Cook MB, Graubard BI,

Kratz CP, Greene MH, Erickson RL, Hunter DJ, Thomas G, Hoover RN, Real FX, Fraumeni JF Jr, Caporaso NE, Tucker M, Rothman N, Pérez-Jurado LA, Chanock SJ. Detectable clonal mosaicism and its relationship to aging and cancer. Nat Genet. 2012 May 6;44(6):651-658. PMID: 22561519.

35. **Wang Z**, Parikh H, Jia J, Myers T, Yeager M, Jacobs KB, Hutchinson A, Burdett L, Ghosh A, Thun MJ, Gapstur SM, Ryan Diver W, Virtamo J, Albanes D, Cancel-Tassin G, Valeri A, Cussenot O, Offit K, Giovannucci E, Ma J, Stampfer MJ, Michael Gaziano J, Hunter DJ, Dutra-Clarke A, Kirchhoff T, Alavanja M, Freeman LB, Koutros S, Hoover R, Berndt SI, Hayes RB, Agalliu I, Burk RD, Wacholder S, Thomas G, Amundadottir L. Y chromosome haplogroups and prostate cancer in populations of European and Ashkenazi Jewish ancestry. Hum Genet. 2012 Jul;131(7):1173-1185. PMID: 22271044. Role: First author

36. Ghosh A, Hartge P, Purdue MP, Chanock SJ, Amundadottir L, **Wang Z**, Wentzensen N, Chatterjee N, Wacholder S. Assessing disease risk in genome-wide association studies using family history. Epidemiology. 2012 Jul;23(4):616-622. PMID: 22575968.

37. Kitahara CM, Wang SS, Melin BS, **Wang Z**, Braganza M, Inskip PD, Albanes D, Andersson U, Beane Freeman LE, Buring JE, Carreón T, Feychting M, Gapstur SM, Gaziano JM, Giles GG, Hallmans G, Hankinson SE, Henriksson R, Hsing AW, Johansen C, Linet MS, McKean-Cowdin R, Michaud DS, Peters U, Purdue MP, Rothman N, Ruder AM, Sesso HD, Severi G, Shu XO, Stevens VL, Visvanathan K, Waters MA, White E, Wolk A, Zeleniuch-Jacquotte A, Zheng W, Hoover R, Fraumeni JF Jr, Chatterjee N, Yeager M, Chanock SJ, Hartge P, Rajaraman P. Association between adult height, genetic susceptibility and risk of glioma. Int J Epidemiol. 2012 Aug;41(4):1075-1085. PMID: 22933650.

38. Liu Y, Melin BS, Rajaraman P, **Wang Z**, Linet M, Shete S, Amos CI, Lau CC, Scheurer ME, Tsavachidis S, Armstrong GN, Houlston RS, Hosking FJ, Claus EB, Barnholtz-Sloan J, Lai R, Il'yasova D, Schildkraut J, Sadetzki S, Johansen C, Bernstein JL, Olson SH, Jenkins RB, LaChance D, Vick NA, Wrensch M, Davis F, McCarthy BJ, Andersson U, Thompson PA, Chanock S; Gliogene Consortium, Bondy ML. Insight in glioma susceptibility through an analysis of 6p22.3, 12p13.33-12.1, 17q22-23.2 and 18q23 SNP genotypes in familial and non-familial glioma. Hum Genet. 2012 Sep;131(9):1507-1517. PMID: 22688887.

39. Wu C, Kraft P, Zhai K, Chang J, **Wang Z**, Li Y, Hu Z, He Z, Jia W, Abnet CC, Liang L, Hu N, Miao X, Zhou Y, Liu Z, Zhan Q, Liu Y, Qiao Y, Zhou Y, Jin G, Guo C, Lu C, Yang H, Fu J, Yu D, Freedman ND, Ding T, Tan W, Goldstein AM, Wu T, Shen H, Ke Y, Zeng Y, Chanock SJ, Taylor PR, Lin D. Genome-wide association analyses of esophageal squamous cell carcinoma in Chinese identify multiple susceptibility loci and gene-environment interactions. Nat Genet. 2012 Oct;44(10):1090-1097. PMID: 22960999. *Corrigendum: Nat Genet. 2014 Sep;46(9):1040-1041. https://doi.org/10.1038/ng0914-1040b*

40. Lan Q, Hsiung CA, Matsuo K, Hong YC, Seow A, **Wang Z**, Hosgood HD 3rd, Chen K, Wang JC, Chatterjee N, Hu W, Wong MP, Zheng W, Caporaso N, Park JY, Chen CJ, Kim YH, Kim YT, Landi MT, Shen H, Lawrence C, Burdett L, Yeager M, Yuenger J, Jacobs KB, Chang IS, Mitsudomi T, Kim HN, Chang GC, Bassig BA, Tucker M, Wei F, Yin Z, Wu C, An SJ, Qian B, Lee VH, Lu D, Liu J, Jeon HS, Hsiao CF, Sung JS, Kim JH, Gao YT, Tsai YH, Jung YJ, Guo H, Hu Z, Hutchinson A, Wang WC, Klein R, Chung CC, Oh IJ, Chen KY, Berndt SI, He X, Wu W, Chang J, Zhang XC, Huang MS, Zheng H, Wang J, Zhao X, Li Y, Choi JE, Su WC, Park KH, Sung SW, Shu XO, Chen YM, Liu L, Kang CH, Hu L, Chen CH, Pao W, Kim YC, Yang TY, Xu J, Guan P, Tan W, Su J, Wang CL, Li H, Sihoe AD, Zhao Z, Chen Y, Choi YY, Hung JY, Kim JS, Yoon HI, Cai Q, Lin CC, Park IK, Xu P, Dong J, Kim C, He Q, Perng RP, Kohno T, Kweon SS, Chen CY, Vermeulen R, Wu J, Lim WY, Chen KC, Chow WH, Ji BT, Chan JK, Chu M, Li YJ, Yokota J, Li J, Chen H, Xiang YB, Yu CJ, Kunitoh H, Wu G, Jin L, Lo YL,

Shiraishi K, Chen YH, Lin HC, Wu T, Wu YL, Yang PC, Zhou B, Shin MH, Fraumeni JF Jr, Lin D, Chanock SJ, Rothman N. Genome-wide association analysis identifies new lung cancer susceptibility loci in never-smoking women in Asia. Nat Genet. 2012 Dec;44(12):1330-1335. PMID: 23143601. Role: Co-First author

41. Rajaraman P, Melin BS, **Wang Z**, McKean-Cowdin R, Michaud DS, Wang SS, Bondy M, Houlston R, Jenkins RB, Wrensch M, Yeager M, Ahlbom A, Albanes D, Andersson U, Freeman LE, Buring JE, Butler MA, Braganza M, Carreon T, Feychting M, Fleming SJ, Gapstur SM, Gaziano JM, Giles GG, Hallmans G, Henriksson R, Hoffman-Bolton J, Inskip PD, Johansen C, Kitahara CM, Lathrop M, Liu C, Le Marchand L, Linet MS, Lonn S, Peters U, Purdue MP, Rothman N, Ruder AM, Sanson M, Sesso HD, Severi G, Shu XO, Simon M, Stampfer M, Stevens VL, Visvanathan K, White E, Wolk A, Zeleniuch-Jacquotte A, Zheng W, Decker P, Enciso-Mora V, Fridley B, Gao YT, Kosel M, Lachance DH, Lau C, Rice T, Swerdlow A, Wiemels JL, Wiencke JK, Shete S, Xiang YB, Xiao Y, Hoover RN, Fraumeni JF Jr, Chatterjee N, Hartge P, Chanock SJ. Genome-wide association study of glioma and meta-analysis. Hum Genet. 2012 Dec;131(12):1877-1888. PMID: 22886559. Role: Co-First author

42. Siddiq A, Couch FJ, Chen GK, Lindström S, Eccles D, Millikan RC, Michailidou K, Stram DO, Beckmann L, Rhie SK, Ambrosone CB, Aittomäki K, Amiano P, Apicella C; Australian Breast Cancer Tissue Bank Investigators, Baglietto L, Bandera EV, Beckmann MW, Berg CD, Bernstein L, Blomqvist C, Brauch H, Brinton L, Bui QM, Buring JE, Buys SS, Campa D, Carpenter JE, Chasman DI, Chang-Claude J, Chen C, Clavel-Chapelon F, Cox A, Cross SS, Czene K, Deming SL, Diasio RB, Diver WR, Dunning AM, Durcan L, Ekici AB, Fasching PA; Familial Breast Cancer Study, Feigelson HS, Fejerman L, Figueroa JD, Fletcher O, Flesch-Janys D, Gaudet MM; GENICA Consortium, Gerty SM, Rodriguez-Gil JL, Giles GG, van Gils CH, Godwin AK, Graham N, Greco D, Hall P, Hankinson SE, Hartmann A, Hein R, Heinz J, Hoover RN, Hopper JL, Hu JJ, Huntsman S, Ingles SA, Irwanto A, Isaacs C, Jacobs KB, John EM, Justenhoven C, Kaaks R, Kolonel LN, Coetzee GA, Lathrop M, Le Marchand L, Lee AM, Lee IM, Lesnick T, Lichtner P, Liu J, Lund E, Makalic E, Martin NG, McLean CA, Meijers-Heijboer H, Meindl A, Miron P, Monroe KR, Montgomery GW, Müller-Myhsok B, Nickels S, Nyante SJ, Olswold C, Overvad K, Palli D, Park DJ, Palmer JR, Pathak H, Peto J, Pharoah P, Rahman N, Rivadeneira F, Schmidt DF, Schmutzler RK, Slager S, Southey MC, Stevens KN, Sinn HP, Press MF, Ross E, Riboli E, Ridker PM, Schumacher FR, Severi G, Dos Santos Silva I, Stone J, Sund M, Tapper WJ, Thun MJ, Travis RC, Turnbull C, Uitterlinden AG, Waisfisz Q, Wang X, **Wang Z**, Weaver J, Schulz-Wendtland R, Wilkens LR, Van den Berg D, Zheng W, Ziegler RG, Ziv E, Nevanlinna H, Easton DF, Hunter DJ, Henderson BE, Chanock SJ, Garcia-Closas M, Kraft P, Haiman CA, Vachon CM. A meta-analysis of genome-wide association studies of breast cancer identifies two novel susceptibility loci at 6q14 and 20q11. Hum Mol Genet. 2012 Dec 15;21(24):5373-5384. PMID: 22976474.

43. Agalliu I, **Wang Z**, Wang T, Dunn A, Parikh H, Myers T, Burk RD, Amundadottir L. Characterization of SNPs associated with prostate cancer in men of Ashkenazic descent from the set of GWAS identified SNPs: Impact of cancer family history and cumulative SNP risk prediction. PLoS One. 2013;8(4):e60083. PMID: 23573233.

44. Li WQ, Hu N, **Wang Z**, Yu K, Su H, Wang L, Wang C, Chanock SJ, Burdett L, Ding T, Qiao YL, Fan JH, Wang Y, Xu Y, Giffen C, Xiong X, Murphy G, Tucker MA, Dawsey SM, Freedman ND, Abnet CC, Goldstein AM, Taylor PR. Genetic variants in epidermal growth factor receptor pathway genes and risk of esophageal squamous cell carcinoma and gastric cancer in a Chinese population. PLoS One. 2013 Jul 18;8(7):e68999. PMID: 23874846.

45. Henrion M, Frampton M, Scelo G, Purdue M, Ye Y, Broderick P, Ritchie A, Kaplan R, Meade A, McKay J, Johansson M, Lathrop M, Larkin J, Rothman N, **Wang Z**, Chow WH, Stevens VL, Ryan Diver W, Gapstur SM, Albanes D, Virtamo J, Wu X, Brennan P, Chanock S, Eisen T,

Houlston RS. Common variation at 2q22.3 (ZEB2) influences the risk of renal cancer. Hum Mol Genet. 2013 Feb 15;22(4):825-831. PMID: 23184150.

46. Garcia-Closas M, Rothman N, Figueroa JD, Prokunina-Olsson L, Han SS, Baris D, Jacobs EJ, Malats N, De Vivo I, Albanes D, Purdue MP, Sharma S, Fu YP, Kogevinas M, **Wang Z**, Tang 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, Gapstur SM, Thun M, Diver WR, Weinstein SJ, Virtamo J, Hunter DJ, Caporaso N, Landi MT, Hutchinson A, Burdett L, Jacobs KB, Yeager M, Fraumeni JF Jr, Chanock SJ, Silverman DT, Chatterjee N. Common genetic polymorphisms modify the effect of smoking on absolute risk of bladder cancer. Cancer Res. 2013 Apr 1;73(7):2211-2220. PMID: 23536561.

47. Berndt SI, Gustafsson S, Mägi R, Ganna A, Wheeler E, Feitosa MF, Justice AE, Monda KL, Croteau-Chonka DC, Day FR, Esko T, Fall T, Ferreira T, Gentilini D, Jackson AU, Luan J, Randall JC, Vedantam S, Willer CJ, Winkler TW, Wood AR, Workalemahu T, Hu YJ, Lee SH, Liang L, Lin DY, Min JL, Neale BM, Thorleifsson G, Yang J, Albrecht E, Amin N, Bragg-Gresham JL, Cadby G, den Heijer M, Eklund N, Fischer K, Goel A, Hottenga JJ, Huffman JE, Jarick I, Johansson Å, Johnson T, Kanoni S, Kleber ME, König IR, Kristiansson K, Kutalik Z, Lamina C, Lecoeur C, Li G, Mangino M, McArdle WL, Medina-Gomez C, Müller-Nurasyid M, Ngwa JS, Nolte IM, Paternoster L, Pechlivanis S, Perola M, Peters MJ, Preuss M, Rose LM, Shi J, Shungin D, Smith AV, Strawbridge RJ, Surakka I, Teumer A, Trip MD, Tyrer J, Van Vliet-Ostaptchouk JV, Vandenput L, Waite LL, Zhao JH, Absher D, Asselbergs FW, Atalay M, Attwood AP, Balmforth AJ, Basart H, Beilby J, Bonnycastle LL, Brambilla P, Bruinenberg M, Campbell H, Chasman DI, Chines PS, Collins FS, Connell JM, Cookson WO, de Faire U, de Vegt F, Dei M, Dimitriou M, Edkins S, Estrada K, Evans DM, Farrall M, Ferrario MM, Ferrières J, Franke L, Frau F, Gejman PV, Grallert H, Grönberg H, Gudnason V, Hall AS, Hall P, Hartikainen AL, Hayward C, Heard-Costa NL, Heath AC, Hebebrand J, Homuth G, Hu FB, Hunt SE, Hyppönen E, Iribarren C, Jacobs KB, Jansson JO, Jula A, Kähönen M, Kathiresan S, Kee F, Khaw KT, Kivimäki M, Koenig W, Kraja AT, Kumari M, Kuulasmaa K, Kuusisto J, Laitinen JH, Lakka TA, Langenberg C, Launer LJ, Lind L, Lindström J, Liu J, Liuzzi A, Lokki ML, Lorentzon M, Madden PA, Magnusson PK, Manunta P, Marek D, März W, Mateo Leach I, McKnight B, Medland SE, Mihailov E, Milani L, Montgomery GW, Mooser V, Mühleisen TW, Munroe PB, Musk AW, Narisu N, Navis G, Nicholson G, Nohr EA, Ong KK, Oostra BA, Palmer CN, Palotie A, Peden JF, Pedersen N, Peters A, Polasek O, Pouta A, Pramstaller PP, Prokopenko I, Pütter C, Radhakrishnan A, Raitakari O, Rendon A, Rivadeneira F, Rudan I, Saaristo TE, Sambrook JG, Sanders AR, Sanna S, Saramies J, Schipf S, Schreiber S, Schunkert H, Shin SY, Signorini S, Sinisalo J, Skrobek B, Soranzo N, Stančáková A, Stark K, Stephens JC, Stirrups K, Stolk RP, Stumvoll M, Swift AJ, Theodoraki EV, Thorand B, Tregouet DA, Tremoli E, Van der Klauw MM, van Meurs JB, Vermeulen SH, Viikari J, Virtamo J, Vitart V, Waeber G, **Wang Z**, Widén E, Wild SH, Willemsen G, Winkelmann BR, Witteman JC, Wolffenbuttel BH, Wong A, Wright AF, Zillikens MC, Amouyel P, Boehm BO, Boerwinkle E, Boomsma DI, Caulfield MJ, Chanock SJ, Cupples LA, Cusi D, Dedoussis GV, Erdmann J, Eriksson JG, Franks PW, Froguel P, Gieger C, Gyllensten U, Hamsten A, Harris TB, Hengstenberg C, Hicks AA, Hingorani A, Hinney A, Hofman A, Hovingh KG, Hveem K, Illig T, Jarvelin MR, Jöckel KH, Keinanen-Kiukaanniemi SM, Kiemeney LA, Kuh D, Laakso M, Lehtimäki T, Levinson DF, Martin NG, Metspalu A, Morris AD, Nieminen MS, Njølstad I, Ohlsson C, Oldehinkel AJ, Ouwehand WH, Palmer LJ, Penninx B, Power C, Province MA, Psaty BM, Qi L, Rauramaa R, Ridker PM, Ripatti S, Salomaa V, Samani NJ, Snieder H, Sørensen TI, Spector TD, Stefansson K, Tönjes A, Tuomilehto J, Uitterlinden AG, Uusitupa M, van der Harst P, Vollenweider P, Wallaschofski H, Wareham NJ, Watkins H, Wichmann HE, Wilson JF, Abecasis GR, Assimes TL, Barroso I, Boehnke M, Borecki IB, Deloukas P, Fox CS, Frayling T, Groop LC, Haritunian T, Heid IM, Hunter D, Kaplan RC, Karpe F, Moffatt MF, Mohlke KL, O'Connell JR, Pawitan Y, Schadt EE, Schlessinger D, Steinthorsdottir V, Strachan DP, Thorsteinsdottir U, van Duijn CM, Visscher PM, Di Blasio AM, Hirschhorn JN,

Lindgren CM, Morris AP, Meyre D, Scherag A, McCarthy MI, Speliotes EK, North KE, Loos RJ, Ingelsson E. Genome-wide meta-analysis identifies 11 new loci for anthropometric traits and provides insights into genetic architecture. Nat Genet. 2013 May;45(5):501-512. PMID: 23563607.

48. Melin B, Dahlin AM, Andersson U, **Wang Z**, Henriksson R, Hallmans G, Bondy ML, Johansen C, Feychting M, Ahlbom A, Kitahara CM, Wang SS, Ruder AM, Carreón T, Butler MA, Inskip PD, Purdue M, Hsing AW, Mechanic L, Gillanders E, Yeager M, Linet M, Chanock SJ, Hartge P, Rajaraman P. Known glioma risk loci are associated with glioma with a family history of brain tumours -- A case-control gene association study. Int J Cancer. 2013 May 15;132(10):2464-2468. PMID: 23115063.

49. Monda KL, Chen GK, Taylor KC, Palmer C, Edwards TL, Lange LA, Ng MC, Adeyemo AA, Allison MA, Bielak LF, Chen G, Graff M, Irvin MR, Rhie SK, Li G, Liu Y, Liu Y, Lu Y, Nalls MA, Sun YV, Wojczynski MK, Yanek LR, Aldrich MC, Ademola A, Amos CI, Bandera EV, Bock CH, Britton A, Broeckel U, Cai Q, Caporaso NE, Carlson CS, Carpten J, Casey G, Chen WM, Chen F, Chen YD, Chiang CW, Coetzee GA, Demerath E, Deming-Halverson SL, Driver RW, Dubbert P, Feitosa MF, Feng Y, Freedman BI, Gillanders EM, Gottesman O, Guo X, Haritunians T, Harris T, Harris CC, Hennis AJ, Hernandez DG, McNeill LH, Howard TD, Howard BV, Howard VJ, Johnson KC, Kang SJ, Keating BJ, Kolb S, Kuller LH, Kutlar A, Langefeld CD, Lettre G, Lohman K, Lotay V, Lyon H, Manson JE, Maixner W, Meng YA, Monroe KR, Morhason-Bello I, Murphy AB, Mychaleckyj JC, Nadukuru R, Nathanson KL, Nayak U, N'diaye A, Nemesure B, Wu SY, Leske MC, Neslund-Dudas C, Neuhouser M, Nyante S, Ochs-Balcom H, Ogunniyi A, Ogundiran TO, Ojengbede O, Olopade OI, Palmer JR, Ruiz-Narvaez EA, Palmer ND, Press MF, Rampersaud E, Rasmussen-Torvik LJ, Rodriguez-Gil JL, Salako B, Schadt EE, Schwartz AG, Shriner DA, Siscovick D, Smith SB, Wassertheil-Smoller S, Speliotes EK, Spitz MR, Sucheston L, Taylor H, Tayo BO, Tucker MA, Van den Berg DJ, Edwards DR, **Wang Z**, Wiencke JK, Winkler TW, Witte JS, Wrensch M, Wu X, Yang JJ, Levin AM, Young TR, Zakai NA, Cushman M, Zanetti KA, Zhao JH, Zhao W, Zheng Y, Zhou J, Ziegler RG, Zmuda JM, Fernandes JK, Gilkeson GS, Kamen DL, Hunt KJ, Spruill IJ, Ambrosone CB, Ambs S, Arnett DK, Atwood L, Becker DM, Berndt SI, Bernstein L, Blot WJ, Borecki IB, Bottinger EP, Bowden DW, Burke G, Chanock SJ, Cooper RS, Ding J, Duggan D, Evans MK, Fox C, Garvey WT, Bradfield JP, Hakonarson H, Grant SF, Hsing A, Chu L, Hu JJ, Huo D, Ingles SA, John EM, Jordan JM, Kabagambe EK, Kardia SL, Kittles RA, Goodman PJ, Klein EA, Kolonel LN, Le Marchand L, Liu S, McKnight B, Millikan RC, Mosley TH, Padhukasahasram B, Williams LK, Patel SR, Peters U, Pettaway CA, Peyser PA, Psaty BM, Redline S, Rotimi CN, Rybicki BA, Sale MM, Schreiner PJ, Signorello LB, Singleton AB, Stanford JL, Strom SS, Thun MJ, Vitolins M, Zheng W, Moore JH, Williams SM, Ketkar S, Zhu X, Zonderman AB; NABEC Consortium; UKBEC Consortium; BioBank Japan Project; AGEN Consortium, Kooperberg C, Papanicolaou GJ, Henderson BE, Reiner AP, Hirschhorn JN, Loos RJ, North KE, Haiman CA. A meta-analysis identifies new loci associated with body mass index in individuals of African ancestry. Nat Genet. 2013 Jun;45(6):690-696. PMID: 23583978.

50. Chung CC, Kanetsky PA, **Wang Z**, Hildebrandt MA, Koster R, Skotheim RI, Kratz CP, Turnbull C, Cortessis VK, Bakken AC, Bishop DT, Cook MB, Erickson RL, Fosså SD, Jacobs KB, Korde LA, Kraggerud SM, Lothe RA, Loud JT, Rahman N, Skinner EC, Thomas DC, Wu X, Yeager M, Schumacher FR, Greene MH, Schwartz SM, McGlynn KA, Chanock SJ, Nathanson KL. Meta-analysis identifies four new loci associated with testicular germ cell tumor. Nat Genet. 2013 Jun;45(6):680-685. PMID: 23666239. Role: Co-First author

51. Randall JC, Winkler TW, Kutalik Z, Berndt SI, Jackson AU, Monda KL, Kilpeläinen TO, Esko T, Mägi R, Li S, Workalemahu T, Feitosa MF, Croteau-Chonka DC, Day FR, Fall T, Ferreira T, Gustafsson S, Locke AE, Mathieson I, Scherag A, Vedantam S, Wood AR, Liang L,

Steinthorsdottir V, Thorleifsson G, Dermitzakis ET, Dimas AS, Karpe F, Min JL, Nicholson G, Clegg DJ, Person T, Krohn JP, Bauer S, Buechler C, Eisinger K; DIAGRAM Consortium, Bonnefond A, Froguel P; MAGIC Investigators, Hottenga JJ, Prokopenko I, Waite LL, Harris TB, Smith AV, Shuldiner AR, McArdle WL, Caulfield MJ, Munroe PB, Grönberg H, Chen YD, Li G, Beckmann JS, Johnson T, Thorsteinsdottir U, Teder-Laving M, Khaw KT, Wareham NJ, Zhao JH, Amin N, Oostra BA, Kraja AT, Province MA, Cupples LA, Heard-Costa NL, Kaprio J, Ripatti S, Surakka I, Collins FS, Saramies J, Tuomilehto J, Jula A, Salomaa V, Erdmann J, Hengstenberg C, Loley C, Schunkert H, Lamina C, Wichmann HE, Albrecht E, Gieger C, Hicks AA, Johansson A, Pramstaller PP, Kathiresan S, Speliotes EK, Penninx B, Hartikainen AL, Jarvelin MR, Gyllensten U, Boomsma DI, Campbell H, Wilson JF, Chanock SJ, Farrall M, Goel A, Medina-Gomez C, Rivadeneira F, Estrada K, Uitterlinden AG, Hofman A, Zillikens MC, den Heijer M, Kiemeney LA, Maschio A, Hall P, Tyrer J, Teumer A, Völzke H, Kovacs P, Tönjes A, Mangino M, Spector TD, Hayward C, Rudan I, Hall AS, Samani NJ, Attwood AP, Sambrook JG, Hung J, Palmer LJ, Lokki ML, Sinisalo J, Boucher G, Huikuri H, Lorentzon M, Ohlsson C, Eklund N, Eriksson JG, Barlassina C, Rivolta C, Nolte IM, Snieder H, Van der Klauw MM, Van Vliet-Ostaptchouk JV, Gejman PV, Shi J, Jacobs KB, **Wang Z**, Bakker SJ, Mateo Leach I, Navis G, van der Harst P, Martin NG, Medland SE, Montgomery GW, Yang J, Chasman DI, Ridker PM, Rose LM, Lehtimäki T, Raitakari O, Absher D, Iribarren C, Basart H, Hovingh KG, Hyppönen E, Power C, Anderson D, Beilby JP, Hui J, Jolley J, Sager H, Bornstein SR, Schwarz PE, Kristiansson K, Perola M, Lindström J, Swift AJ, Uusitupa M, Atalay M, Lakka TA, Rauramaa R, Bolton JL, Fowkes G, Fraser RM, Price JF, Fischer K, Krjutå Kov K, Metspalu A, Mihailov E, Langenberg C, Luan J, Ong KK, Chines PS, Keinanen-Kiukaanniemi SM, Saaristo TE, Edkins S, Franks PW, Hallmans G, Shungin D, Morris AD, Palmer CN, Erbel R, Moebus S, Nöthen MM, Pechlivanis S, Hveem K, Narisu N, Hamsten A, Humphries SE, Strawbridge RJ, Tremoli E, Grallert H, Thorand B, Illig T, Koenig W, Müller-Nurasyid M, Peters A, Boehm BO, Kleber ME, März W, Winkelmann BR, Kuusisto J, Laakso M, Arveiler D, Cesana G, Kuulasmaa K, Virtamo J, Yarnell JW, Kuh D, Wong A, Lind L, de Faire U, Gigante B, Magnusson PK, Pedersen NL, Dedoussis G, Dimitriou M, Kolovou G, Kanoni S, Stirrups K, Bonnycastle LL, Njølstad I, Wilsgaard T, Ganna A, Rehnberg E, Hingorani A, Kivimaki M, Kumari M, Assimes TL, Barroso I, Boehnke M, Borecki IB, Deloukas P, Fox CS, Frayling T, Groop LC, Haritunians T, Hunter D, Ingelsson E, Kaplan R, Mohlke KL, O'Connell JR, Schlessinger D, Strachan DP, Stefansson K, van Duijn CM, Abecasis GR, McCarthy MI, Hirschhorn JN, Qi L, Loos RJ, Lindgren CM, North KE, Heid IM. Sex-stratified genome-wide association studies including 270,000 individuals show sexual dimorphism in genetic loci for anthropometric traits. PLoS Genet. 2013 Jun;9(6):e1003500. PMID: 23754948.

52. Schumacher FR, **Wang Z**, Skotheim RI, Koster R, Chung CC, Hildebrandt MA, Kratz CP, Bakken AC, Bishop DT, Cook MB, Erickson RL, Fosså SD, Greene MH, Jacobs KB, Kanetsky PA, Kolonel LN, Loud JT, Korde LA, Le Marchand L, Lewinger JP, Lothe RA, Pike MC, Rahman N, Rubertone MV, Schwartz SM, Siegmund KD, Skinner EC, Turnbull C, Van den Berg DJ, Wu X, Yeager M, Nathanson KL, Chanock SJ, Cortessis VK, McGlynn KA. Testicular germ cell tumor susceptibility associated with the UCK2 locus on chromosome 1q23. Hum Mol Genet. 2013 Jul 1;22(13):2748-2753. PMID: 23462292. Role: Co-First author

53. Li WQ, Hu N, Hyland PL, Gao Y, **Wang ZM**, Yu K, Su H, Wang CY, Wang LM, Chanock SJ, Burdett L, Ding T, Qiao YL, Fan JH, Wang Y, Xu Y, Shi JX, Gu F, Wheeler W, Xiong XQ, Giffen C, Tucker MA, Dawsey SM, Freedman ND, Abnet CC, Goldstein AM, Taylor PR. Genetic variants in DNA repair pathway genes and risk of esophageal squamous cell carcinoma and gastric adenocarcinoma in a Chinese population. Carcinogenesis. 2013 Jul;34(7):1536-1542. PMID: 23504502. Role: Co-First author

54. Savage SA, Mirabello L, **Wang Z**, Gastier-Foster JM, Gorlick R, Khanna C, Flanagan AM, Tirabosco R, Andrulis IL, Wunder JS, Gokgoz N, Patiño-Garcia A, Sierrasesúmaga L, Lecanda F, Kurucu N, Ilhan IE, Sari N, Serra M, Hattinger C, Picci P, Spector LG, Barkauskas

DA, Marina N, de Toledo SR, Petrilli AS, Amary MF, Halai D, Thomas DM, Douglass C, Meltzer PS, Jacobs K, Chung CC, Berndt SI, Purdue MP, Caporaso NE, Tucker M, Rothman N, Landi MT, Silverman DT, Kraft P, Hunter DJ, Malats N, Kogevinas M, Wacholder S, Troisi R, Helman L, Fraumeni JF Jr, Yeager M, Hoover RN, Chanock SJ. Genome-wide association study identifies two susceptibility loci for osteosarcoma. Nat Genet. 2013 Jul;45(7):799-803. PMID: 23727862.

55. Berndt SI, Skibola CF, Joseph V, Camp NJ, Nieters A, **Wang Z**, Cozen W, Monnereau A, Wang SS, Kelly RS, Lan Q, Teras LR, Chatterjee N, Chung CC, Yeager M, Brooks-Wilson AR, Hartge P, Purdue MP, Birmann BM, Armstrong BK, Cocco P, Zhang Y, Severi G, Zeleniuch-Jacquotte A, Lawrence C, Burdette L, Yuenger J, Hutchinson A, Jacobs KB, Call TG, Shanafelt TD, Novak AJ, Kay NE, Liebow M, Wang AH, Smedby KE, Adami HO, Melbye M, Glimelius B, Chang ET, Glenn M, Curtin K, Cannon-Albright LA, Jones B, Diver WR, Link BK, Weiner GJ, Conde L, Bracci PM, Riby J, Holly EA, Smith MT, Jackson RD, Tinker LF, Benavente Y, Becker N, Boffetta P, Brennan P, Foretova L, Maynadie M, McKay J, Staines A, Rabe KG, Achenbach SJ, Vachon CM, Goldin LR, Strom SS, Lanasa MC, Spector LG, Leis JF, Cunningham JM, Weinberg JB, Morrison VA, Caporaso NE, Norman AD, Linet MS, De Roos AJ, Morton LM, Severson RK, Riboli E, Vineis P, Kaaks R, Trichopoulos D, Masala G, Weiderpass E, Chirlaque MD, Vermeulen RC, Travis RC, Giles GG, Albanes D, Virtamo J, Weinstein S, Clavel J, Zheng T, Holford TR, Offit K, Zelenetz A, Klein RJ, Spinelli JJ, Bertrand KA, Laden F, Giovannucci E, Kraft P, Kricker A, Turner J, Vajdic CM, Ennas MG, Ferri GM, Miligi L, Liang L, Sampson J, Crouch S, Park JH, North KE, Cox A, Snowden JA, Wright J, Carracedo A, Lopez-Otin C, Bea S, Salaverria I, Martin-Garcia D, Campo E, Fraumeni JF Jr, de Sanjose S, Hjalgrim H, Cerhan JR, Chanock SJ, Rothman N, Slager SL. Genome-wide association study identifies multiple risk loci for chronic lymphocytic leukemia. Nat Genet. 2013 Aug;45(8):868-876. PMID: 23770605. Role: Co-First author

56. Hu YJ, Berndt SI, Gustafsson S, Ganna A; **Genetic Investigation of ANthropometric Traits (GIANT) Consortium (Wang Z)**, Hirschhorn J, North KE, Ingelsson E, Lin DY. Meta-analysis of gene-level associations for rare variants based on single-variant statistics. Am J Hum Genet. 2013 Aug 8;93(2):236-248. PMID: 23891470.

57. Graff M, Ngwa JS, Workalemahu T, Homuth G, Schipf S, Teumer A, Völzke H, Wallaschofski H, Abecasis GR, Edward L, Francesco C, Sanna S, Scheet P, Schlessinger D, Sidore C, Xiao X, **Wang Z**, Chanock SJ, Jacobs KB, Hayes RB, Hu F, Van Dam RM; GIANT Consortium, Crout RJ, Marazita ML, Shaffer JR, Atwood LD, Fox CS, Heard-Costa NL, White C, Choh AC, Czerwinski SA, Demerath EW, Dyer TD, Towne B, Amin N, Oostra BA, Van Duijn CM, Zillikens MC, Esko T, Nelis M, Nikopensius T, Metspalu A, Strachan DP, Monda K, Qi L, North KE, Cupples LA, Gordon-Larsen P, Berndt SI. Genome-wide analysis of BMI in adolescents and young adults reveals additional insight into the effects of genetic loci over the life course. Hum Mol Genet. 2013 Sep 1;22(17):3597-3607. PMID: 23669352.

58. Jia J, Parikh H, Xiao W, Hoskins JW, Pflicke H, Liu X, Collins I, Zhou W, **Wang Z**, Powell J, Thorgeirsson SS, Rudloff U, Petersen GM, Amundadottir LT. An integrated transcriptome and epigenome analysis identifies a novel candidate gene for pancreatic cancer. BMC Med Genomics. 2013 Sep 22;6:33. PMID: 24053169.

59. Purdue MP, Ye Y, **Wang Z**, Colt JS, Schwartz KL, Davis FG, Rothman N, Chow WH, Wu X, Chanock SJ. A genome-wide association study of renal cell carcinoma among African Americans. Cancer Epidemiol Biomarkers Prev. 2014 Jan;23(1):209-214. PMID: 24220910. Role: Co-First author

60. Hyland PL, Lin SW, Hu N, Zhang H, Wang L, Su H, Wang C, Ding T, Tang ZZ, Fan JH, Qiao YL, Xiong X, Wheeler W, Giffen C, Yu K, Yuenger J, Burdett L, **Wang Z**, Chanock SJ, Tucker

MA, Dawsey SM, Freedman ND, Goldstein AM, Abnet CC, Taylor PR. Genetic variants in fas signaling pathway genes and risk of gastric cancer. Int J Cancer. 2014 Feb 14;134(4):822-831. PMID: 23921907.

61. Shi J, Marconett CN, Duan J, Hyland PL, Li P, **Wang Z**, Wheeler W, Zhou B, Campan M, Lee DS, Huang J, Zhou W, Triche T, Amundadottir L, Warner A, Hutchinson A, Chen PH, Chung BS, Pesatori AC, Consonni D, Bertazzi PA, Bergen AW, Freedman M, Siegmund KD, Berman BP, Borok Z, Chatterjee N, Tucker MA, Caporaso NE, Chanock SJ, Laird-Offringa IA, Landi MT. Characterizing the genetic basis of methylome diversity in histologically normal human lung tissue. Nat Commun. 2014 Feb 27;5:3365. PMID: 24572595.

62. Figueroa JD, Ye Y, Siddiq A, Garcia-Closas M, Chatterjee N, Prokunina-Olsson L, Cortessis VK, Kooperberg C, Cussenot O, Benhamou S, Prescott J, Porru S, Dinney CP, Malats N, Baris D, Purdue M, Jacobs EJ, Albanes D, **Wang Z**, Deng X, Chung CC, Tang W, Bas Bueno-de-Mesquita H, Trichopoulos D, Ljungberg B, Clavel-Chapelon F, Weiderpass E, Krogh V, Dorronsoro M, Travis R, Tjønneland A, Brenan P, Chang-Claude J, Riboli E, Conti D, Gago-Dominguez M, Stern MC, Pike MC, Van den Berg D, Yuan JM, Hohensee C, Rodabough R, Cancel-Tassin G, Roupret M, Comperat E, Chen C, De Vivo I, Giovannucci E, Hunter DJ, Kraft P, Lindstrom S, Carta A, Pavanello S, Arici C, Mastrangelo G, Kamat AM, Lerner SP, Barton Grossman H, Lin J, Gu J, Pu X, Hutchinson A, Burdette L, Wheeler W, Kogevinas M, Tardón A, Serra C, Carrato A, García-Closas R, Lloreta J, Schwenn M, Karagas MR, Johnson A, Schned A, Armenti KR, Hosain GM, Andriole G Jr, Grubb R 3rd, Black A, Ryan Diver W, Gapstur SM, Weinstein SJ, Virtamo J, Haiman CA, Landi MT, Caporaso N, Fraumeni JF Jr, Vineis P, Wu X, Silverman DT, Chanock S, Rothman N. Genome-wide association study identifies multiple loci associated with bladder cancer risk. Hum Mol Genet. 2014 Mar 1;23(5):1387-1398. PMID: 24163127.

63. Shi J, Yang XR, Ballew B, Rotunno M, Calista D, Fargnoli MC, Ghiorzo P, Bressac-de Paillerets B, Nagore E, Avril MF, Caporaso NE, McMaster ML, Cullen M, **Wang Z**, Zhang X; NCI DCEG Cancer Sequencing Working Group; NCI DCEG Cancer Genomics Research Laboratory; French Familial Melanoma Study Group, Bruno W, Pastorino L, Queirolo P, Banuls-Roca J, Garcia-Casado Z, Vaysse A, Mohamdi H, Riazalhosseini Y, Foglio M, Jouenne F, Hua X, Hyland PL, Yin J, Vallabhaneni H, Chai W, Minghetti P, Pellegrini C, Ravichandran S, Eggermont A, Lathrop M, Peris K, Scarra GB, Landi G, Savage SA, Sampson JN, He J, Yeager M, Goldin LR, Demenais F, Chanock SJ, Tucker MA, Goldstein AM, Liu Y, Landi MT. Rare missense variants in POT1 predispose to familial cutaneous malignant melanoma. Nat Genet. 2014 May;46(5):482-486. PMID: 24686846.

64. Cook MB, **Wang Z**, Yeboah ED, Tettey Y, Biritwum RB, Adjei AA, Tay E, Truelove A, Niwa S, Chung CC, Chokkalingam AP, Chu LW, Yeager M, Hutchinson A, Yu K, Rand KA, Haiman CA; African Ancestry Prostate Cancer GWAS Consortium, Hoover RN, Hsing AW, Chanock SJ. A genome-wide association study of prostate cancer in West African men. Hum Genet. 2014 May;133(5):509-521. PMID: 24185611. Role: Co-First author. *Erratum: Hum Genet. 2014;133(5):523.*

65. Hoggart CJ, Venturini G, Mangino M, Gomez F, Ascari G, Zhao JH, Teumer A, Winkler TW, Tšernikova N, Luan J, Mihailov E, Ehret GB, Zhang W, Lamparter D, Esko T, Macé A, Rüeger S, Bochud PY, Barcella M, Dauvilliers Y, Benyamin B, Evans DM, Hayward C, Lopez MF, Franke L, Russo A, Heid IM, Salvi E, Vendantam S, Arking DE, Boerwinkle E, Chambers JC, Fiorito G, Grallert H, Guarrera S, Homuth G, Huffman JE, Porteous D; Generation Scotland Consortium; LifeLines Cohort study; **GIANT Consortium (Wang Z)**, Moradpour D, Iranzo A, Hebebrand J, Kemp JP, Lammers GJ, Aubert V, Heim MH, Martin NG, Montgomery GW, Peraita-Adrados R, Santamaria J, Negro F, Schmidt CO, Scott RA, Spector TD, Strauch K, Völzke H, Wareham NJ, Yuan W, Bell JT, Chakravarti A, Kooner JS, Peters A, Matullo G,

Wallaschofski H, Whitfield JB, Paccaud F, Vollenweider P, Bergmann S, Beckmann JS, Tafti M, Hastie ND, Cusi D, Bochud M, Frayling TM, Metspalu A, Jarvelin MR, Scherag A, Smith GD, Borecki IB, Rousson V, Hirschhorn JN, Rivolta C, Loos RJ, Kutalik Z. Novel approach identifies SNPs in SLC2A10 and KCNK9 with evidence for parent-of-origin effect on body mass index. PLoS Genet. 2014 Jul 31;10(7):e1004508. PMID: 25078964.

66. Wang Y, McKay JD, Rafnar T, **Wang Z**, Timofeeva MN, Broderick P, Zong X, Laplana M, Wei Y, Han Y, Lloyd A, Delahaye-Sourdeix M, Chubb D, Gaborieau V, Wheeler W, Chatterjee N, Thorleifsson G, Sulem P, Liu G, Kaaks R, Henrion M, Kinnersley B, Vallée M, LeCalvez-Kelm F, Stevens VL, Gapstur SM, Chen WV, Zaridze D, Szeszenia-Dabrowska N, Lissowska J, Rudnai P, Fabianova E, Mates D, Bencko V, Foretova L, Janout V, Krokan HE, Gabrielsen ME, Skorpen F, Vatten L, Njølstad I, Chen C, Goodman G, Benhamou S, Vooder T, Välk K, Nelis M, Metspalu A, Lener M, Lubiński J, Johansson M, Vineis P, Agudo A, Clavel-Chapelon F, Bueno-de-Mesquita HB, Trichopoulos D, Khaw KT, Johansson M, Weiderpass E, Tjønneland A, Riboli E, Lathrop M, Scelo G, Albanes D, Caporaso NE, Ye Y, Gu J, Wu X, Spitz MR, Dienemann H, Rosenberger A, Su L, Matakidou A, Eisen T, Stefansson K, Risch A, Chanock SJ, Christiani DC, Hung RJ, Brennan P, Landi MT, Houlston RS, Amos CI. Rare variants of large effect in BRCA2 and CHEK2 affect risk of lung cancer. Nat Genet. 2014 Jul;46(7):736-741. PMID: 24880342. *Corrigendum: Nat Genet. 2017 Mar 30;49(4):651. PMID: 28358128.*

67. Zhang H, Wheeler W, **Wang Z**, Taylor PR, Yu K. A fast and powerful tree-based association test for detecting complex joint effects in case-control studies. Bioinformatics. 2014 Aug 1;30(15):2171-1278. PMID: 24794927.

68. Figueroa JD, Han SS, Garcia-Closas M, Baris D, Jacobs EJ, Kogevinas M, Schwenn M, Malats N, Johnson A, Purdue MP, Caporaso N, Landi MT, Prokunina-Olsson L, **Wang Z**, Hutchinson A, Burdette L, Wheeler W, Vineis P, Siddiq A, Cortessis VK, Kooperberg C, Cussenot O, Benhamou S, Prescott J, Porru S, Bueno-de-Mesquita HB, Trichopoulos D, Ljungberg B, Clavel-Chapelon F, Weiderpass E, Krogh V, Dorronsoro M, Travis R, Tjønneland A, Brenan P, Chang-Claude J, Riboli E, Conti D, Gago-Dominguez M, Stern MC, Pike MC, Van den Berg D, Yuan JM, Hohensee C, Rodabough R, Cancel-Tassin G, Roupret M, Comperat E, Chen C, De Vivo I, Giovannucci E, Hunter DJ, Kraft P, Lindstrom S, Carta A, Pavanello S, Arici C, Mastrangelo G, Karagas MR, Schned A, Armenti KR, Hosain GM, Haiman CA, Fraumeni JF Jr, Chanock SJ, Chatterjee N, Rothman N, Silverman DT. Genome-wide interaction study of smoking and bladder cancer risk. Carcinogenesis. 2014 Aug;35(8):1737-1744. PMID: 24662972.

69. Wolpin BM, Rizzato C, Kraft P, Kooperberg C, Petersen GM, **Wang Z**, Arslan AA, Beane-Freeman L, Bracci PM, Buring J, Canzian F, Duell EJ, Gallinger S, Giles GG, Goodman GE, Goodman PJ, Jacobs EJ, Kamineni A, Klein AP, Kolonel LN, Kulke MH, Li D, Malats N, Olson SH, Risch HA, Sesso HD, Visvanathan K, White E, Zheng W, Abnet CC, Albanes D, Andreotti G, Austin MA, Barfield R, Basso D, Berndt SI, Boutron-Ruault MC, Brotzman M, Büchler MW, Bueno-de-Mesquita HB, Bugert P, Burdette L, Campa D, Caporaso NE, Capurso G, Chung C, Cotterchio M, Costello E, Elena J, Funel N, Gaziano JM, Giese NA, Giovannucci EL, Goggins M, Gorman MJ, Gross M, Haiman CA, Hassan M, Helzlsouer KJ, Henderson BE, Holly EA, Hu N, Hunter DJ, Innocenti F, Jenab M, Kaaks R, Key TJ, Khaw KT, Klein EA, Kogevinas M, Krogh V, Kupcinskas J, Kurtz RC, LaCroix A, Landi MT, Landi S, Le Marchand L, Mambrini A, Mannisto S, Milne RL, Nakamura Y, Oberg AL, Owzar K, Patel AV, Peeters PH, Peters U, Pezzilli R, Piepoli A, Porta M, Real FX, Riboli E, Rothman N, Scarpa A, Shu XO, Silverman DT, Soucek P, Sund M, Talar-Wojnarowska R, Taylor PR, Theodoropoulos GE, Thornquist M, Tjønneland A, Tobias GS, Trichopoulos D, Vodicka P, Wactawski-Wende J, Wentzensen N, Wu C, Yu H, Yu K, Zeleniuch-Jacquotte A, Hoover R, Hartge P, Fuchs C, Chanock SJ, Stolzenberg-Solomon RS, Amundadottir LT. Genome-wide association study

identifies multiple susceptibility loci for pancreatic cancer. Nat Genet. 2014 Sep;46(9):994-1000. PMID: 25086665.

70. Wu C, **Wang Z**, Song X, Feng XS, Abnet CC, He J, Hu N, Zuo XB, Tan W, Zhan Q, Hu Z, He Z, Jia W, Zhou Y, Yu K, Shu XO, Yuan JM, Zheng W, Zhao XK, Gao SG, Yuan ZQ, Zhou FY, Fan ZM, Cui JL, Lin HL, Han XN, Li B, Chen X, Dawsey SM, Liao L, Lee MP, Ding T, Qiao YL, Liu Z, Liu Y, Yu D, Chang J, Wei L, Gao YT, Koh WP, Xiang YB, Tang ZZ, Fan JH, Han JJ, Zhou SL, Zhang P, Zhang DY, Yuan Y, Huang Y, Liu C, Zhai K, Qiao Y, Jin G, Guo C, Fu J, Miao X, Lu C, Yang H, Wang C, Wheeler WA, Gail M, Yeager M, Yuenger J, Guo ET, Li AL, Zhang W, Li XM, Sun LD, Ma BG, Li Y, Tang S, Peng XQ, Liu J, Hutchinson A, Jacobs K, Giffen C, Burdette L, Fraumeni JF Jr, Shen H, Ke Y, Zeng Y, Wu T, Kraft P, Chung CC, Tucker MA, Hou ZC, Liu YL, Hu YL, Liu Y, Wang L, Yuan G, Chen LS, Liu X, Ma T, Meng H, Sun L, Li XM, Li XM, Ku JW, Zhou YF, Yang LQ, Wang Z, Li Y, Qige Q, Yang WJ, Lei GY, Chen LQ, Li EM, Yuan L, Yue WB, Wang R, Wang LW, Fan XP, Zhu FH, Zhao WX, Mao YM, Zhang M, Xing GL, Li JL, Han M, Ren JL, Liu B, Ren SW, Kong QP, Li F, Sheyhidin I, Wei W, Zhang YR, Feng CW, Wang J, Yang YH, Hao HZ, Bao QD, Liu BC, Wu AQ, Xie D, Yang WC, Wang L, Zhao XH, Chen SQ, Hong JY, Zhang XJ, Freedman ND, Goldstein AM, Lin D, Taylor PR, Wang LD, Chanock SJ. Joint analysis of three genome-wide association studies of esophageal squamous cell carcinoma in Chinese populations. Nat Genet. 2014 Sep;46(9):1001-1006. PMID: 25129146. Role: Co-First author

71. Al Olama AA, Kote-Jarai Z, Berndt SI, Conti DV, Schumacher F, Han Y, Benlloch S, Hazelett DJ, **Wang Z**, Saunders E, Leongamornlert D, Lindstrom S, Jugurnauth-Little S, Dadaev T, Tymrakiewicz M, Stram DO, Rand K, Wan P, Stram A, Sheng X, Pooler LC, Park K, Xia L, Tyrer J, Kolonel LN, Le Marchand L, Hoover RN, Machiela MJ, Yeager M, Burdette L, Chung CC, Hutchinson A, Yu K, Goh C, Ahmed M, Govindasami K, Guy M, Tammela TL, Auvinen A, Wahlfors T, Schleutker J, Visakorpi T, Leinonen KA, Xu J, Aly M, Donovan J, Travis RC, Key TJ, Siddiq A, Canzian F, Khaw KT, Takahashi A, Kubo M, Pharoah P, Pashayan N, Weischer M, Nordestgaard BG, Nielsen SF, Klarskov P, Røder MA, Iversen P, Thibodeau SN, McDonnell SK, Schaid DJ, Stanford JL, Kolb S, Holt S, Knudsen B, Coll AH, Gapstur SM, Diver WR, Stevens VL, Maier C, Luedeke M, Herkommer K, Rinckleb AE, Strom SS, Pettaway C, Yeboah ED, Tettey Y, Biritwum RB, Adjei AA, Tay E, Truelove A, Niwa S, Chokkalingam AP, Cannon-Albright L, Cybulski C, Wokołorczyk D, Kluźniak W, Park J, Sellers T, Lin HY, Isaacs WB, Partin AW, Brenner H, Dieffenbach AK, Stegmaier C, Chen C, Giovannucci EL, Ma J, Stampfer M, Penney KL, Mucci L, John EM, Ingles SA, Kittles RA, Murphy AB, Pandha H, Michael A, Kierzek AM, Blot W, Signorello LB, Zheng W, Albanes D, Virtamo J, Weinstein S, Nemesure B, Carpten J, Leske C, Wu SY, Hennis A, Kibel AS, Rybicki BA, Neslund-Dudas C, Hsing AW, Chu L, Goodman PJ, Klein EA, Zheng SL, Batra J, Clements J, Spurdle A, Teixeira MR, Paulo P, Maia S, Slavov C, Kaneva R, Mitev V, Witte JS, Casey G, Gillanders EM, Seminara D, Riboli E, Hamdy FC, Coetzee GA, Li Q, Freedman ML, Hunter DJ, Muir K, Gronberg H, Neal DE, Southey M, Giles GG, Severi G; Breast and Prostate Cancer Cohort Consortium (BPC3); PRACTICAL (Prostate Cancer Association Group to Investigate Cancer-Associated Alterations in the Genome) Consortium; COGS (Collaborative Oncological Gene-environment Study) Consortium; GAME-ON/ELLIPSE Consortium, Cook MB, Nakagawa H, Wiklund F, Kraft P, Chanock SJ, Henderson BE, Easton DF, Eeles RA, Haiman CA. A meta-analysis of 87,040 individuals identifies 23 new susceptibility loci for prostate cancer. Nat Genet. 2014 Sep;46(10):1103-1109. PMID: 25217961.

72. Skibola CF, Berndt SI, Vijai J, Conde L, **Wang Z**, Yeager M, de Bakker PI, Birmann BM, Vajdic CM, Foo JN, Bracci PM, Vermeulen RC, Slager SL, de Sanjose S, Wang SS, Linet MS, Salles G, Lan Q, Severi G, Hjalgrim H, Lightfoot T, Melbye M, Gu J, Ghesquières H, Link BK, Morton LM, Holly EA, Smith A, Tinker LF, Teras LR, Kricker A, Becker N, Purdue MP, Spinelli JJ, Zhang Y, Giles GG, Vineis P, Monnereau A, Bertrand KA, Albanes D, Zeleniuch-Jacquotte A, Gabbas A, Chung CC, Burdett L, Hutchinson A, Lawrence C, Montalvan R, Liang L, Huang J,

Ma B, Liu J, Adami HO, Glimelius B, Ye Y, Nowakowski GS, Dogan A, Thompson CA, Habermann TM, Novak AJ, Liebow M, Witzig TE, Weiner GJ, Schenk M, Hartge P, De Roos AJ, Cozen W, Zhi D, Akers NK, Riby J, Smith MT, Lacher M, Villano DJ, Maria A, Roman E, Kane E, Jackson RD, North KE, Diver WR, Turner J, Armstrong BK, Benavente Y, Boffetta P, Brennan P, Foretova L, Maynadie M, Staines A, McKay J, Brooks-Wilson AR, Zheng T, Holford TR, Chamosa S, Kaaks R, Kelly RS, Ohlsson B, Travis RC, Weiderpass E, Clavel J, Giovannucci E, Kraft P, Virtamo J, Mazza P, Cocco P, Ennas MG, Chiu BC, Fraumeni JF Jr, Nieters A, Offit K, Wu X, Cerhan JR, Smedby KE, Chanock SJ, Rothman N. Genome-wide association study identifies five susceptibility loci for follicular lymphoma outside the HLA region. Am J Hum Genet. 2014 Oct 2;95(4):462-471. PMID: 25279986. Role: Co-First author

73. Fu YP, Kohaar I, Moore LE, Lenz P, Figueroa JD, Tang W, Porter-Gill P, Chatterjee N, Scott-Johnson A, Garcia-Closas M, Muchmore B, Baris D, Paquin A, Ylaya K, Schwenn M, Apolo AB, Karagas MR, Tarway M, Johnson A, Mumy A, Schned A, Guedez L, Jones MA, Kida M, Hosain GM, Malats N, Kogevinas M, Tardon A, Serra C, Carrato A, Garcia-Closas R, Lloreta J, Wu X, Purdue M, Andriole GL Jr, Grubb RL 3rd, Black A, Landi MT, Caporaso NE, Vineis P, Siddiq A, Bueno-de-Mesquita HB, Trichopoulos D, Ljungberg B, Severi G, Weiderpass E, Krogh V, Dorronsoro M, Travis RC, Tjønneland A, Brennan P, Chang-Claude J, Riboli E, Prescott J, Chen C, De Vivo I, Govannucci E, Hunter D, Kraft P, Lindstrom S, Gapstur SM, Jacobs EJ, Diver WR, Albanes D, Weinstein SJ, Virtamo J, Kooperberg C, Hohensee C, Rodabough RJ, Cortessis VK, Conti DV, Gago-Dominguez M, Stern MC, Pike MC, Van den Berg D, Yuan JM, Haiman CA, Cussenot O, Cancel-Tassin G, Roupret M, Comperat E, Porru S, Carta A, Pavanello S, Arici C, Mastrangelo G, Grossman HB, **Wang Z**, Deng X, Chung CC, Hutchinson A, Burdette L, Wheeler W, Fraumeni J Jr, Chanock SJ, Hewitt SM, Silverman DT, Rothman N, Prokunina-Olsson L. The 19q12 bladder cancer GWAS signal: Association with cyclin E function and aggressive disease. Cancer Res. 2014 Oct 15;74(20):5808-5818. PMID: 25320178.

74. Cerhan JR, Berndt SI, Vijai J, Ghesquières H, McKay J, Wang SS, **Wang Z**, Yeager M, Conde L, de Bakker PI, Nieters A, Cox D, Burdett L, Monnereau A, Flowers CR, De Roos AJ, Brooks-Wilson AR, Lan Q, Severi G, Melbye M, Gu J, Jackson RD, Kane E, Teras LR, Purdue MP, Vajdic CM, Spinelli JJ, Giles GG, Albanes D, Kelly RS, Zucca M, Bertrand KA, Zeleniuch-Jacquotte A, Lawrence C, Hutchinson A, Zhi D, Habermann TM, Link BK, Novak AJ, Dogan A, Asmann YW, Liebow M, Thompson CA, Ansell SM, Witzig TE, Weiner GJ, Veron AS, Zelenika D, Tilly H, Haioun C, Molina TJ, Hjalgrim H, Glimelius B, Adami HO, Bracci PM, Riby J, Smith MT, Holly EA, Cozen W, Hartge P, Morton LM, Severson RK, Tinker LF, North KE, Becker N, Benavente Y, Boffetta P, Brennan P, Foretova L, Maynadie M, Staines A, Lightfoot T, Crouch S, Smith A, Roman E, Diver WR, Offit K, Zelenetz A, Klein RJ, Villano DJ, Zheng T, Zhang Y, Holford TR, Kricker A, Turner J, Southey MC, Clavel J, Virtamo J, Weinstein S, Riboli E, Vineis P, Kaaks R, Trichopoulos D, Vermeulen RC, Boeing H, Tjonneland A, Angelucci E, Di Lollo S, Rais M, Birmann BM, Laden F, Giovannucci E, Kraft P, Huang J, Ma B, Ye Y, Chiu BC, Sampson J, Liang L, Park JH, Chung CC, Weisenburger DD, Chatterjee N, Fraumeni JF Jr, Slager SL, Wu X, de Sanjose S, Smedby KE, Salles G, Skibola CF, Rothman N, Chanock SJ. Genome-wide association study identifies multiple susceptibility loci for diffuse large B cell lymphoma. Nat Genet. 2014 Nov;46(11):1233-1238. PMID: 25261932. Role: Co-First author

75. Wood AR, Esko T, Yang J, Vedantam S, Pers TH, Gustafsson S, Chu AY, Estrada K, Luan J, Kutalik Z, Amin N, Buchkovich ML, Croteau-Chonka DC, Day FR, Duan Y, Fall T, Fehrmann R, Ferreira T, Jackson AU, Karjalainen J, Lo KS, Locke AE, Mägi R, Mihailov E, Porcu E, Randall JC, Scherag A, Vinkhuyzen AA, Westra HJ, Winkler TW, Workalemahu T, Zhao JH, Absher D, Albrecht E, Anderson D, Baron J, Beekman M, Demirkan A, Ehret GB, Feenstra B, Feitosa MF, Fischer K, Fraser RM, Goel A, Gong J, Justice AE, Kanoni S, Kleber ME, Kristiansson K, Lim U, Lotay V, Lui JC, Mangino M, Mateo Leach I, Medina-Gomez C, Nalls

MA, Nyholt DR, Palmer CD, Pasko D, Pechlivanis S, Prokopenko I, Ried JS, Ripke S, Shungin D, Stancáková A, Strawbridge RJ, Sung YJ, Tanaka T, Teumer A, Trompet S, van der Laan SW, van Setten J, Van Vliet-Ostaptchouk JV, **Wang Z**, Yengo L, Zhang W, Afzal U, Arnlöv J, Arscott GM, Bandinelli S, Barrett A, Bellis C, Bennett AJ, Berne C, Blüher M, Bolton JL, Böttcher Y, Boyd HA, Bruinenberg M, Buckley BM, Buyske S, Caspersen IH, Chines PS, Clarke R, Claudi-Boehm S, Cooper M, Daw EW, De Jong PA, Deelen J, Delgado G, Denny JC, Dhonukshe-Rutten R, Dimitriou M, Doney AS, Dörr M, Eklund N, Eury E, Folkersen L, Garcia ME, Geller F, Giedraitis V, Go AS, Grallert H, Grammer TB, Gräßler J, Grönberg H, de Groot LC, Groves CJ, Haessler J, Hall P, Haller T, Hallmans G, Hannemann A, Hartman CA, Hassinen M, Hayward C, Heard-Costa NL, Helmer Q, Hemani G, Henders AK, Hillege HL, Hlatky MA, Hoffmann W, Hoffmann P, Holmen O, Houwing-Duistermaat JJ, Illig T, Isaacs A, James AL, Jeff J, Johansen B, Johansson Å, Jolley J, Juliusdottir T, Junttila J, Kho AN, Kinnunen L, Klopp N, Kocher T, Kratzer W, Lichtner P, Lind L, Lindström J, Lobbens S, Lorentzon M, Lu Y, Lyssenko V, Magnusson PK, Mahajan A, Maillard M, McArdle WL, McKenzie CA, McLachlan S, McLaren PJ, Menni C, Merger S, Milani L, Moayyeri A, Monda KL, Morken MA, Müller G, Müller-Nurasyid M, Musk AW, Narisu N, Nauck M, Nolte IM, Nöthen MM, Oozageer L, Pilz S, Rayner NW, Renstrom F, Robertson NR, Rose LM, Roussel R, Sanna S, Scharnagl H, Scholtens S, Schumacher FR, Schunkert H, Scott RA, Sehmi J, Seufferlein T, Shi J, Silventoinen K, Smit JH, Smith AV, Smolonska J, Stanton AV, Stirrups K, Stott DJ, Stringham HM, Sundström J, Swertz MA, Syvänen AC, Tayo BO, Thorleifsson G, Tyrer JP, van Dijk S, van Schoor NM, van der Velde N, van Heemst D, van Oort FV, Vermeulen SH, Verweij N, Vonk JM, Waite LL, Waldenberger M, Wennauer R, Wilkens LR, Willenborg C, Wilsgaard T, Wojczynski MK, Wong A, Wright AF, Zhang Q, Arveiler D, Bakker SJ, Beilby J, Bergman RN, Bergmann S, Biffar R, Blangero J, Boomsma DI, Bornstein SR, Bovet P, Brambilla P, Brown MJ, Campbell H, Caulfield MJ, Chakravarti A, Collins R, Collins FS, Crawford DC, Cupples LA, Danesh J, de Faire U, den Ruijter HM, Erbel R, Erdmann J, Eriksson JG, Farrall M, Ferrannini E, Ferrières J, Ford I, Forouhi NG, Forrester T, Gansevoort RT, Gejman PV, Gieger C, Golay A, Gottesman O, Gudnason V, Gyllensten U, Haas DW, Hall AS, Harris TB, Hattersley AT, Heath AC, Hengstenberg C, Hicks AA, Hindorff LA, Hingorani AD, Hofman A, Hovingh GK, Humphries SE, Hunt SC, Hypponen E, Jacobs KB, Jarvelin MR, Jousilahti P, Jula AM, Kaprio J, Kastelein JJ, Kayser M, Kee F, Keinanen-Kiukaanniemi SM, Kiemeney LA, Kooner JS, Kooperberg C, Koskinen S, Kovacs P, Kraja AT, Kumari M, Kuusisto J, Lakka TA, Langenberg C, Le Marchand L, Lehtimäki T, Lupoli S, Madden PA, Männistö S, Manunta P, Marette A, Matise TC, McKnight B, Meitinger T, Moll FL, Montgomery GW, Morris AD, Morris AP, Murray JC, Nelis M, Ohlsson C, Oldehinkel AJ, Ong KK, Ouwehand WH, Pasterkamp G, Peters A, Pramstaller PP, Price JF, Qi L, Raitakari OT, Rankinen T, Rao DC, Rice TK, Ritchie M, Rudan I, Salomaa V, Samani NJ, Saramies J, Sarzynski MA, Schwarz PE, Sebert S, Sever P, Shuldiner AR, Sinisalo J, Steinthorsdottir V, Stolk RP, Tardif JC, Tönjes A, Tremblay A, Tremoli E, Virtamo J, Vohl MC; Electronic Medical Records and Genomics (eMEMERGEGE) Consortium; MIGen Consortium; PAGEGE Consortium; LifeLines Cohort Study, Amouyel P, Asselbergs FW, Assimes TL, Bochud M, Boehm BO, Boerwinkle E, Bottinger EP, Bouchard C, Cauchi S, Chambers JC, Chanock SJ, Cooper RS, de Bakker PI, Dedoussis G, Ferrucci L, Franks PW, Froguel P, Groop LC, Haiman CA, Hamsten A, Hayes MG, Hui J, Hunter DJ, Hveem K, Jukema JW, Kaplan RC, Kivimaki M, Kuh D, Laakso M, Liu Y, Martin NG, März W, Melbye M, Moebus S, Munroe PB, Njølstad I, Oostra BA, Palmer CN, Pedersen NL, Perola M, Pérusse L, Peters U, Powell JE, Power C, Quertermous T, Rauramaa R, Reinmaa E, Ridker PM, Rivadeneira F, Rotter JI, Saaristo TE, Saleheen D, Schlessinger D, Slagboom PE, Snieder H, Spector TD, Strauch K, Stumvoll M, Tuomilehto J, Uusitupa M, van der Harst P, Völzke H, Walker M, Wareham NJ, Watkins H, Wichmann HE, Wilson JF, Zanen P, Deloukas P, Heid IM, Lindgren CM, Mohlke KL, Speliotes EK, Thorsteinsdottir U, Barroso I, Fox CS, North KE, Strachan DP, Beckmann JS, Berndt SI, Boehnke M, Borecki IB, McCarthy MI, Metspalu A, Stefansson K, Uitterlinden AG, van Duijn CM, Franke L, Willer CJ, Price AL, Lettre G, Loos RJ, Weedon MN, Ingelsson E, O'Connell JR, Abecasis GR, Chasman DI, Goddard ME, Visscher PM, Hirschhorn JN, Frayling TM.

Defining the role of common variation in the genomic and biological architecture of adult human height. Nat Genet. 2014 Nov;46(11):1173-1186. PMID: 25282103.

76. Koster R, Mitra N, D'Andrea K, Vardhanabhuti S, Chung CC, **Wang Z**, Loren Erickson R, Vaughn DJ, Litchfield K, Rahman N, Greene MH, McGlynn KA, Turnbull C, Chanock SJ, Nathanson KL, Kanetsky PA. Pathway-based analysis of GWAs data identifies association of sex determination genes with susceptibility to testicular germ cell tumors. Hum Mol Genet. 2014 Nov 15;23(22):6061-6068. PMID: 24943593.

77. Barry KH, Moore LE, Sampson J, Yan L, Meyer A, Oler AJ, Chung CC, **Wang Z**, Yeager M, Amundadottir L, Berndt SI. DNA methylation levels at chromosome 8q24 in peripheral blood are associated with 8q24 cancer susceptibility loci. Cancer Prev Res (Phila). 2014 Dec;7(12):1282-1292. PMID: 25315430.

78. Li WQ, Pfeiffer RM, Hyland PL, Shi J, Gu F, **Wang Z**, Bhattacharjee S, Luo J, Xiong X, Yeager M, Deng X, Hu N, Taylor PR, Albanes D, Caporaso NE, Gapstur SM, Amundadottir L, Chanock SJ, Chatterjee N, Landi MT, Tucker MA, Goldstein AM, Yang XR. Genetic polymorphisms in the 9p21 region associated with risk of multiple cancers. Carcinogenesis. 2014 Dec;35(12):2698-2705. PMID: 25239644.

79. **Wang Z**, Zhu B, Zhang M, Parikh H, Jia J, Chung CC, Sampson JN, Hoskins JW, Hutchinson A, Burdette L, Ibrahim A, Hautman C, Raj PS, Abnet CC, Adjei AA, Ahlbom A, Albanes D, Allen NE, Ambrosone CB, Aldrich M, Amiano P, Amos C, Andersson U, Andriole G Jr, Andrulis IL, Arici C, Arslan AA, Austin MA, Baris D, Barkauskas DA, Bassig BA, Beane Freeman LE, Berg CD, Berndt SI, Bertazzi PA, Biritwum RB, Black A, Blot W, Boeing H, Boffetta P, Bolton K, Boutron-Ruault MC, Bracci PM, Brennan P, Brinton LA, Brotzman M, Bueno-de-Mesquita HB, Buring JE, Butler MA, Cai Q, Cancel-Tassin G, Canzian F, Cao G, Caporaso NE, Carrato A, Carreon T, Carta A, Chang GC, Chang IS, Chang-Claude J, Che X, Chen CJ, Chen CY, Chen CH, Chen C, Chen KY, Chen YM, Chokkalingam AP, Chu LW, Clavel-Chapelon F, Colditz GA, Colt JS, Conti D, Cook MB, Cortessis VK, Crawford ED, Cussenot O, Davis FG, De Vivo I, Deng X, Ding T, Dinney CP, Di Stefano AL, Diver WR, Duell EJ, Elena JW, Fan JH, Feigelson HS, Feychting M, Figueroa JD, Flanagan AM, Fraumeni JF Jr, Freedman ND, Fridley BL, Fuchs CS, Gago-Dominguez M, Gallinger S, Gao YT, Gapstur SM, Garcia-Closas M, Garcia-Closas R, Gastier-Foster JM, Gaziano JM, Gerhard DS, Giffen CA, Giles GG, Gillanders EM, Giovannucci EL, Goggins M, Gokgoz N, Goldstein AM, Gonzalez C, Gorlick R, Greene MH, Gross M, Grossman HB, Grubb R 3rd, Gu J, Guan P, Haiman CA, Hallmans G, Hankinson SE, Harris CC, Hartge P, Hattinger C, Hayes RB, He Q, Helman L, Henderson BE, Henriksson R, Hoffman-Bolton J, Hohensee C, Holly EA, Hong YC, Hoover RN, Hosgood HD 3rd, Hsiao CF, Hsing AW, Hsiung CA, Hu N, Hu W, Hu Z, Huang MS, Hunter DJ, Inskip PD, Ito H, Jacobs EJ, Jacobs KB, Jenab M, Ji BT, Johansen C, Johansson M, Johnson A, Kaaks R, Kamat AM, Kamineni A, Karagas M, Khanna C, Khaw KT, Kim C, Kim IS, Kim JH, Kim YH, Kim YC, Kim YT, Kang CH, Jung YJ, Kitahara CM, Klein AP, Klein R, Kogevinas M, Koh WP, Kohno T, Kolonel LN, Kooperberg C, Kratz CP, Krogh V, Kunitoh H, Kurtz RC, Kurucu N, Lan Q, Lathrop M, Lau CC, Lecanda F, Lee KM, Lee MP, Le Marchand L, Lerner SP, Li D, Liao LM, Lim WY, Lin D, Lin J, Lindstrom S, Linet MS, Lissowska J, Liu J, Ljungberg B, Lloreta J, Lu D, Ma J, Malats N, Mannisto S, Marina N, Mastrangelo G, Matsuo K, McGlynn KA, McKean-Cowdin R, McNeill LH, McWilliams RR, Melin BS, Meltzer PS, Mensah JE, Miao X, Michaud DS, Mondul AM, Moore LE, Muir K, Niwa S, Olson SH, Orr N, Panico S, Park JY, Patel AV, Patino-Garcia A, Pavanello S, Peeters PH, Peplonska B, Peters U, Petersen GM, Picci P, Pike MC, Porru S, Prescott J, Pu X, Purdue MP, Qiao YL, Rajaraman P, Riboli E, Risch HA, Rodabough RJ, Rothman N, Ruder AM, Ryu JS, Sanson M, Schned A, Schumacher FR, Schwartz AG, Schwartz KL, Schwenn M, Scotlandi K, Seow A, Serra C, Serra M, Sesso HD, Severi G, Shen H, Shen M, Shete S, Shiraishi K, Shu XO, Siddiq A, Sierrasesumaga L, Sierri S, Loon Sihoe AD, Silverman DT, Simon M, Southey MC, Spector

L, Spitz M, Stampfer M, Stattin P, Stern MC, Stevens VL, Stolzenberg-Solomon RZ, Stram DO, Strom SS, Su WC, Sund M, Sung SW, Swerdlow A, Tan W, Tanaka H, Tang W, Tang ZZ, Tardon A, Tay E, Taylor PR, Tettey Y, Thomas DM, Tirabosco R, Tjonneland A, Tobias GS, Toro JR, Travis RC, Trichopoulos D, Troisi R, Truelove A, Tsai YH, Tucker MA, Tumino R, Van den Berg D, Van Den Eeden SK, Vermeulen R, Vineis P, Visvanathan K, Vogel U, Wang C, Wang C, Wang J, Wang SS, Weiderpass E, Weinstein SJ, Wentzensen N, Wheeler W, White E, Wiencke JK, Wolk A, Wolpin BM, Wong MP, Wrensch M, Wu C, Wu T, Wu X, Wu YL, Wunder JS, Xiang YB, Xu J, Yang HP, Yang PC, Yatabe Y, Ye Y, Yeboah ED, Yin Z, Ying C, Yu CJ, Yu K, Yuan JM, Zanetti KA, Zeleniuch-Jacquotte A, Zheng W, Zhou B, Mirabello L, Savage SA, Kraft P, Chanock SJ, Yeager M, Landi MT, Shi J, Chatterjee N, Amundadottir LT. Imputation and subset-based association analysis across different cancer types identifies multiple independent risk loci in the TERT-CLPTM1L region on chromosome 5p15.33. Hum Mol Genet. 2014 Dec 15;23(24):6616-6633. PMID: 25027329. Role: First author

80. Vijai J, **Wang Z**, Berndt SI, Skibola CF, Slager SL, de Sanjose S, Melbye M, Glimelius B, Bracci PM, Conde L, Birmann BM, Wang SS, Brooks-Wilson AR, Lan Q, de Bakker PI, Vermeulen RC, Portlock C, Ansell SM, Link BK, Riby J, North KE, Gu J, Hjalgrim H, Cozen W, Becker N, Teras LR, Spinelli JJ, Turner J, Zhang Y, Purdue MP, Giles GG, Kelly RS, Zeleniuch-Jacquotte A, Ennas MG, Monnereau A, Bertrand KA, Albanes D, Lightfoot T, Yeager M, Chung CC, Burdett L, Hutchinson A, Lawrence C, Montalvan R, Liang L, Huang J, Ma B, Villano DJ, Maria A, Corines M, Thomas T, Novak AJ, Dogan A, Liebow M, Thompson CA, Witzig TE, Habermann TM, Weiner GJ, Smith MT, Holly EA, Jackson RD, Tinker LF, Ye Y, Adami HO, Smedby KE, De Roos AJ, Hartge P, Morton LM, Severson RK, Benavente Y, Boffetta P, Brennan P, Foretova L, Maynadie M, McKay J, Staines A, Diver WR, Vajdic CM, Armstrong BK, Kricker A, Zheng T, Holford TR, Severi G, Vineis P, Ferri GM, Ricco R, Miligi L, Clavel J, Giovannucci E, Kraft P, Virtamo J, Smith A, Kane E, Roman E, Chiu BC, Fraumeni JF, Wu X, Cerhan JR, Offit K, Chanock SJ, Rothman N, Nieters A. A genome-wide association study of marginal zone lymphoma shows association to the HLA region. Nat Commun. 2015 Jan 8;6:5751. PMID: 25569183. Role: Co-First author

81. Pers TH, Karjalainen JM, Chan Y, Westra HJ, Wood AR, Yang J, Lui JC, Vedantam S, Gustafsson S, Esko T, Frayling T, Speliotes EK; **Genetic Investigation of ANthropometric Traits (GIANT) Consortium (Wang Z)**, Boehnke M, Raychaudhuri S, Fehrmann RS, Hirschhorn JN, Franke L. Biological interpretation of genome-wide association studies using predicted gene functions. Nat Commun. 2015 Jan 19;6:5890. PMID: 25597830. Role: Co-First author (GIANT Consortium)

82. Cheng TH, Gorman M, Martin L, Barclay E, Casey G; Colon Cancer Family Registry; **CGEMS**, Saunders B, Thomas H, Clark S, Tomlinson I. Common colorectal cancer risk alleles contribute to the multiple colorectal adenoma phenotype, but do not influence colonic polyposis in FAP. Eur J Hum Genet. 2015 Feb;23(2):260-263. PMID: 24801760. Role: Co-First author of CGEMS

83. Locke AE, Kahali B, Berndt SI, Justice AE, Pers TH, Day FR, Powell C, Vedantam S, Buchkovich ML, Yang J, Croteau-Chonka DC, Esko T, Fall T, Ferreira T, Gustafsson S, Kutalik Z, Luan J, Mägi R, Randall JC, Winkler TW, Wood AR, Workalemahu T, Faul JD, Smith JA, Zhao JH, Zhao W, Chen J, Fehrmann R, Hedman ÅK, Karjalainen J, Schmidt EM, Absher D, Amin N, Anderson D, Beekman M, Bolton JL, Bragg-Gresham JL, Buyske S, Demirkan A, Deng G, Ehret GB, Feenstra B, Feitosa MF, Fischer K, Goel A, Gong J, Jackson AU, Kanoni S, Kleber ME, Kristiansson K, Lim U, Lotay V, Mangino M, Leach IM, Medina-Gomez C, Medland SE, Nalls MA, Palmer CD, Pasko D, Pechlivanis S, Peters MJ, Prokopenko I, Shungin D, Stančáková A, Strawbridge RJ, Sung YJ, Tanaka T, Teumer A, Trompet S, van der Laan SW, van Setten J, Van Vliet-Ostaptchouk JV, **Wang Z**, Yengo L, Zhang W, Isaacs

A, Albrecht E, Ärnlöv J, Arscott GM, Attwood AP, Bandinelli S, Barrett A, Bas IN, Bellis C, Bennett AJ, Berne C, Blagieva R, Blüher M, Böhringer S, Bonnycastle LL, Böttcher Y, Boyd HA, Bruinenberg M, Caspersen IH, Chen YI, Clarke R, Daw EW, de Craen AJM, Delgado G, Dimitriou M, Doney ASF, Eklund N, Estrada K, Eury E, Folkersen L, Fraser RM, Garcia ME, Geller F, Giedraitis V, Gigante B, Go AS, Golay A, Goodall AH, Gordon SD, Gorski M, Grabe HJ, Grallert H, Grammer TB, Gräßler J, Grönberg H, Groves CJ, Gusto G, Haessler J, Hall P, Haller T, Hallmans G, Hartman CA, Hassinen M, Hayward C, Heard-Costa NL, Helmer Q, Hengstenberg C, Holmen O, Hottenga JJ, James AL, Jeff JM, Johansson Å, Jolley J, Juliusdottir T, Kinnunen L, Koenig W, Koskenvuo M, Kratzer W, Laitinen J, Lamina C, Leander K, Lee NR, Lichtner P, Lind L, Lindström J, Lo KS, Lobbens S, Lorbeer R, Lu Y, Mach F, Magnusson PKE, Mahajan A, McArdle WL, McLachlan S, Menni C, Merger S, Mihailov E, Milani L, Moayyeri A, Monda KL, Morken MA, Mulas A, Müller G, Müller-Nurasyid M, Musk AW, Nagaraja R, Nöthen MM, Nolte IM, Pilz S, Rayner NW, Renstrom F, Rettig R, Ried JS, Ripke S, Robertson NR, Rose LM, Sanna S, Scharnagl H, Scholtens S, Schumacher FR, Scott WR, Seufferlein T, Shi J, Smith AV, Smolonska J, Stanton AV, Steinthorsdottir V, Stirrups K, Stringham HM, Sundström J, Swertz MA, Swift AJ, Syvänen AC, Tan ST, Tayo BO, Thorand B, Thorleifsson G, Tyrer JP, Uh HW, Vandenput L, Verhulst FC, Vermeulen SH, Verweij N, Vonk JM, Waite LL, Warren HR, Waterworth D, Weedon MN, Wilkens LR, Willenborg C, Wilsgaard T, Wojczynski MK, Wong A, Wright AF, Zhang Q, Brennan EP, Choi M, Dastani Z, Drong AW, Eriksson P, Franco-Cereceda A, Gådin JR, Gharavi AG, Goddard ME, Handsaker RE, Huang J, Karpe F, Kathiresan S, Keildson S, Kiryluk K, Kubo M, Lee JY, Liang L, Lifton RP, Ma B, McCarroll SA, McKnight AJ, Min JL, Moffatt MF, Montgomery GW, Murabito JM, Nicholson G, Nyholt DR, Okada Y, Perry JRB, Dorajoo R, Reinmaa E, Salem RM, Sandholm N, Scott RA, Stolk L, Takahashi A, Tanaka T, van 't Hooft FM, Vinkhuyzen AAE, Westra HJ, Zheng W, Zondervan KT, Heath AC, Arveiler D, Bakker SJL, Beilby J, Bergman RN, Blangero J, Bovet P, Campbell H, Caulfield MJ, Cesana G, Chakravarti A, Chasman DI, Chines PS, Collins FS, Crawford DC, Cupples LA, Cusi D, Danesh J, de Faire U, den Ruijter HM, Dominiczak AF, Erbel R, Erdmann J, Eriksson JG, Farrall M, Felix SB, Ferrannini E, Ferrières J, Ford I, Forouhi NG, Forrester T, Franco OH, Gansevoort RT, Gejman PV, Gieger C, Gottesman O, Gudnason V, Gyllensten U, Hall AS, Harris TB, Hattersley AT, Hicks AA, Hindorff LA, Hingorani AD, Hofman A, Homuth G, Hovingh GK, Humphries SE, Hunt SC, Hyppönen E, Illig T, Jacobs KB, Jarvelin MR, Jöckel KH, Johansen B, Jousilahti P, Jukema JW, Jula AM, Kaprio J, Kastelein JJP, Keinanen-Kiukaanniemi SM, Kiemeney LA, Knekt P, Kooner JS, Kooperberg C, Kovacs P, Kraja AT, Kumari M, Kuusisto J, Lakka TA, Langenberg C, Marchand LL, Lehtimäki T, Lyssenko V, Männistö S, Marette A, Matise TC, McKenzie CA, McKnight B, Moll FL, Morris AD, Morris AP, Murray JC, Nelis M, Ohlsson C, Oldehinkel AJ, Ong KK, Madden PAF, Pasterkamp G, Peden JF, Peters A, Postma DS, Pramstaller PP, Price JF, Qi L, Raitakari OT, Rankinen T, Rao DC, Rice TK, Ridker PM, Rioux JD, Ritchie MD, Rudan I, Salomaa V, Samani NJ, Saramies J, Sarzynski MA, Schunkert H, Schwarz PEH, Sever P, Shuldiner AR, Sinisalo J, Stolk RP, Strauch K, Tönjes A, Trégouët DA, Tremblay A, Tremoli E, Virtamo J, Vohl MC, Völker U, Waeber G, Willemsen G, Witteman JC, Zillikens MC, Adair LS, Amouyel P, Asselbergs FW, Assimes TL, Bochud M, Boehm BO, Boerwinkle E, Bornstein SR, Bottinger EP, Bouchard C, Cauchi S, Chambers JC, Chanock SJ, Cooper RS, de Bakker PIW, Dedoussis G, Ferrucci L, Franks PW, Froguel P, Groop LC, Haiman CA, Hamsten A, Hui J, Hunter DJ, Hveem K, Kaplan RC, Kivimaki M, Kuh D, Laakso M, Liu Y, Martin NG, März W, Melbye M, Metspalu A, Moebus S, Munroe PB, Njølstad I, Oostra BA, Palmer CNA, Pedersen NL, Perola M, Pérusse L, Peters U, Power C, Quertermous T, Rauramaa R, Rivadeneira F, Saaristo TE, Saleheen D, Sattar N, Schadt EE, Schlessinger D, Slagboom PE, Snieder H, Spector TD, Thorsteinsdottir U, Stumvoll M, Tuomilehto J, Uitterlinden AG, Uusitupa M, van der Harst P, Walker M, Wallaschofski H, Wareham NJ, Watkins H, Weir DR, Wichmann HE, Wilson JF, Zanen P, Borecki IB, Deloukas P, Fox CS, Heid IM, O'Connell JR, Strachan DP, Stefansson K, van Duijn CM, Abecasis GR, Franke L, Frayling TM, McCarthy MI, Visscher PM, Scherag A, Willer CJ, Boehnke M, Mohlke KL, Lindgren CM, Beckmann JS, Barroso I, North KE, Ingelsson E,

Hirschhorn JN, Loos RJF, Speliotes EK. Genetic studies of body mass index yield new insights for obesity biology. Nature. 2015 Feb 12;518(7538):197-206. PMID: 25673413.

84. Shu X, Purdue MP, Ye Y, Wood CG, Chen M, **Wang Z**, Albanes D, Pu X, Huang M, Stevens VL, Diver WR, Gapstur SM, Virtamo J, Chow WH, Tannir NM, Dinney CP, Rothman N, Chanock SJ, Wu X. Multilevel-analysis identify a cis-expression quantitative trait locus associated with risk of renal cell carcinoma. Oncotarget. 2015 Feb 28;6(6):4097-4109. PMID: 25784652.

85. Hosgood HD 3rd, Song M, Hsiung CA, Yin Z, Shu XO, **Wang Z**, Chatterjee N, Zheng W, Caporaso N, Burdette L, Yeager M, Berndt SI, Landi MT, Chen CJ, Chang GC, Hsiao CF, Tsai YH, Chien LH, Chen KY, Huang MS, Su WC, Chen YM, Chen CH, Yang TY, Wang CL, Hung JY, Lin CC, Perng RP, Chen CY, Chen KC, Li YJ, Yu CJ, Chen YS, Chen YH, Tsai FY, Kim C, Seow WJ, Bassig BA, Wu W, Guan P, He Q, Gao YT, Cai Q, Chow WH, Xiang YB, Lin D, Wu C, Wu YL, Shin MH, Hong YC, Matsuo K, Chen K, Wong MP, Lu D, Jin L, Wang JC, Seow A, Wu T, Shen H, Fraumeni JF Jr, Yang PC, Chang IS, Zhou B, Chanock SJ, Rothman N, Lan Q. Interactions between household air pollution and GWAS-identified lung cancer susceptibility markers in the Female Lung Cancer Consortium in Asia (FLCCA). Hum Genet. 2015 Mar;134(3):333-341. PMID: 25566987. Role: Co-First author

86. Machiela MJ, Zhou W, Sampson JN, Dean MC, Jacobs KB, Black A, Brinton LA, Chang IS, Chen C, Chen C, Chen K, Cook LS, Crous Bou M, De Vivo I, Doherty J, Friedenreich CM, Gaudet MM, Haiman CA, Hankinson SE, Hartge P, Henderson BE, Hong YC, Hosgood HD 3rd, Hsiung CA, Hu W, Hunter DJ, Jessop L, Kim HN, Kim YH, Kim YT, Klein R, Kraft P, Lan Q, Lin D, Liu J, Le Marchand L, Liang X, Lissowska J, Lu L, Magliocco AM, Matsuo K, Olson SH, Orlow I, Park JY, Pooler L, Prescott J, Rastogi R, Risch HA, Schumacher F, Seow A, Setiawan VW, Shen H, Sheng X, Shin MH, Shu XO, VanDen Berg D, Wang JC, Wentzensen N, Wong MP, Wu C, Wu T, Wu YL, Xia L, Yang HP, Yang PC, Zheng W, Zhou B, Abnet CC, Albanes D, Aldrich MC, Amos C, Amundadottir LT, Berndt SI, Blot WJ, Bock CH, Bracci PM, Burdett L, Buring JE, Butler MA, Carreón T, Chatterjee N, Chung CC, Cook MB, Cullen M, Davis FG, Ding T, Duell EJ, Epstein CG, Fan JH, Figueroa JD, Fraumeni JF Jr, Freedman ND, Fuchs CS, Gao YT, Gapstur SM, Patiño-Garcia A, Garcia-Closas M, Gaziano JM, Giles GG, Gillanders EM, Giovannucci EL, Goldin L, Goldstein AM, Greene MH, Hallmans G, Harris CC, Henriksson R, Holly EA, Hoover RN, Hu N, Hutchinson A, Jenab M, Johansen C, Khaw KT, Koh WP, Kolonel LN, Kooperberg C, Krogh V, Kurtz RC, LaCroix A, Landgren A, Landi MT, Li D, Liao LM, Malats N, McGlynn KA, McNeill LH, McWilliams RR, Melin BS, Mirabello L, Peplonska B, Peters U, Petersen GM, Prokunina-Olsson L, Purdue M, Qiao YL, Rabe KG, Rajaraman P, Real FX, Riboli E, Rodríguez-Santiago B, Rothman N, Ruder AM, Savage SA, Schwartz AG, Schwartz KL, Sesso HD, Severi G, Silverman DT, Spitz MR, Stevens VL, Stolzenberg-Solomon R, Stram D, Tang ZZ, Taylor PR, Teras LR, Tobias GS, Viswanathan K, Wacholder S, **Wang Z**, Weinstein SJ, Wheeler W, White E, Wiencke JK, Wolpin BM, Wu X, Wunder JS, Yu K, Zanetti KA, Zeleniuch-Jacquotte A, Ziegler RG, de Andrade M, Barnes KC, Beaty TH, Bierut LJ, Desch KC, Doheny KF, Feenstra B, Ginsburg D, Heit JA, Kang JH, Laurie CA, Li JZ, Lowe WL, Marazita ML, Melbye M, Mirel DB, Murray JC, Nelson SC, Pasquale LR, Rice K, Wiggs JL, Wise A, Tucker M, Pérez-Jurado LA, Laurie CC, Caporaso NE, Yeager M, Chanock SJ. Characterization of large structural genetic mosaicism in human autosomes. Am J Hum Genet. 2015 Mar 5;96(3):487-497. PMID: 25748358.

87. Henrion MY, Purdue MP, Scelo G, Broderick P, Frampton M, Ritchie A, Meade A, Li P, McKay J, Johansson M, Lathrop M, Larkin J, Rothman N, **Wang Z**, Chow WH, Stevens VL, Diver WR, Albanes D, Virtamo J, Brennan P, Eisen T, Chanock S, Houlston RS. Common variation at 1q24.1 (ALDH9A1) is a potential risk factor for renal cancer. PLoS One. 2015 Mar 31;10(3):e0122589. PMID: 25826619.

88. Berndt SI, **Wang Z**, Yeager M, Alavanja MC, Albanes D, Amundadottir L, Andriole G, Beane Freeman L, Campa D, Cancel-Tassin G, Canzian F, Cornu JN, Cussenot O, Diver WR, Gapstur SM, Grönberg H, Haiman CA, Henderson B, Hutchinson A, Hunter DJ, Key TJ, Kolb S, Koutros S, Kraft P, Le Marchand L, Lindström S, Machiela MJ, Ostrander EA, Riboli E, Schumacher F, Siddiq A, Stanford JL, Stevens VL, Travis RC, Tsilidis KK, Virtamo J, Weinstein S, Wilkund F, Xu J, Lilly Zheng S, Yu K, Wheeler W, Zhang H; African Ancestry Prostate Cancer GWAS Consortium, Sampson J, Black A, Jacobs K, Hoover RN, Tucker M, Chanock SJ. Two susceptibility loci identified for prostate cancer aggressiveness. Nat Commun. 2015 May 5;6:6889. PMID: 25939597. Role: Co-First author

89. Chen F, He J, Zhang J, Chen GK, Thomas V, Ambrosone CB, Bandera EV, Berndt SI, Bernstein L, Blot WJ, Cai Q, Carpten J, Casey G, Chanock SJ, Cheng I, Chu L, Deming SL, Driver WR, Goodman P, Hayes RB, Hennis AJ, Hsing AW, Hu JJ, Ingles SA, John EM, Kittles RA, Kolb S, Leske MC, Millikan RC, Monroe KR, Murphy A, Nemesure B, Neslund-Dudas C, Nyante S, Ostrander EA, Press MF, Rodriguez-Gil JL, Rybicki BA, Schumacher F, Stanford JL, Signorello LB, Strom SS, Stevens V, Van den Berg D, **Wang Z**, Witte JS, Wu SY, Yamamura Y, Zheng W, Ziegler RG, Stram AH, Kolonel LN, Le Marchand L, Henderson BE, Haiman CA, Stram DO. Methodological considerations in estimation of phenotype heritability using genome-wide SNP Data, illustrated by an analysis of the heritability of height in a large sample of African ancestry adults. PLoS One. 2015 Jun 30;10(6):e0131106. PMID: 26125186.

90. **Wang Z**, Rajaraman P, Melin BS, Chung CC, Zhang W, McKean-Cowdin R, Michaud D, Yeager M, Ahlbom A, Albanes D, Andersson U, Freeman LE, Buring JE, Butler MA, Carreón T, Feychting M, Gapstur SM, Gaziano JM, Giles GG, Hallmans G, Henriksson R, Hoffman-Bolton J, Inskip PD, Kitahara CM, Marchand LL, Linet MS, Li S, Peters U, Purdue MP, Rothman N, Ruder AM, Sesso HD, Severi G, Stampfer M, Stevens VL, Visvanathan K, Wang SS, White E, Zeleniuch-Jacquotte A, Hoover R, Fraumeni JF, Chatterjee N, Hartge P, Chanock SJ. Further confirmation of germline glioma risk variant rs78378222 in TP53 and its implication in tumor tissues via integrative analysis of TCGA data. Hum Mutat. 2015 Jul;36(7):684-688. PMID: 25907361. Role: First & Co-Corresponding author

91. Machiela MJ, Hsiung CA, Shu XO, Seow WJ, **Wang Z**, Matsuo K, Hong YC, Seow A, Wu C, Hosgood HD 3rd, Chen K, Wang JC, Wen W, Cawthon R, Chatterjee N, Hu W, Caporaso NE, Park JY, Chen CJ, Kim YH, Kim YT, Landi MT, Shen H, Lawrence C, Burdett L, Yeager M, Chang IS, Mitsudomi T, Kim HN, Chang GC, Bassig BA, Tucker M, Wei F, Yin Z, An SJ, Qian B, Lee VH, Lu D, Liu J, Jeon HS, Hsiao CF, Sung JS, Kim JH, Gao YT, Tsai YH, Jung YJ, Guo H, Hu Z, Hutchinson A, Wang WC, Klein RJ, Chung CC, Oh IJ, Chen KY, Berndt SI, Wu W, Chang J, Zhang XC, Huang MS, Zheng H, Wang J, Zhao X, Li Y, Choi JE, Su WC, Park KH, Sung SW, Chen YM, Liu L, Kang CH, Hu L, Chen CH, Pao W, Kim YC, Yang TY, Xu J, Guan P, Tan W, Su J, Wang CL, Li H, Sihoe AD, Zhao Z, Chen Y, Choi YY, Hung JY, Kim JS, Yoon HI, Cai Q, Lin CC, Park IK, Xu P, Dong J, Kim C, He Q, Perng RP, Kohno T, Kweon SS, Chen CY, Vermeulen RC, Wu J, Lim WY, Chen KC, Chow WH, Ji BT, Chan JK, Chu M, Li YJ, Yokota J, Li J, Chen H, Xiang YB, Yu CJ, Kunitoh H, Wu G, Jin L, Lo YL, Shiraishi K, Chen YH, Lin HC, Wu T, Wong MP, Wu YL, Yang PC, Zhou B, Shin MH, Fraumeni JF Jr, Zheng W, Lin D, Chanock SJ, Rothman N, Lan Q. Genetic variants associated with longer telomere length are associated with increased lung cancer risk among never-smoking women in Asia: A report from the female lung cancer consortium in Asia. Int J Cancer. 2015 Jul 15;137(2):311-319. PMID: 25516442. Role: Co-First author

92. Joshi PK, Esko T, Mattsson H, Eklund N, Gandin I, Nutile T, Jackson AU, Schurmann C, Smith AV, Zhang W, Okada Y, Stančáková A, Faul JD, Zhao W, Bartz TM, Concas MP, Franceschini N, Enroth S, Vitart V, Trompet S, Guo X, Chasman DI, O'Connel JR, Corre T, Nongmaithem SS, Chen Y, Mangino M, Ruggiero D, Traglia M, Farmaki AE, Kacprowski T, Bjonnes A, van der Spek A, Wu Y, Giri AK, Yanek LR, Wang L, Hofer E, Rietveld CA, McLeod O, Cornelis

MC, Pattaro C, Verweij N, Baumbach C, Abdellaoui A, Warren HR, Vuckovic D, Mei H, Bouchard C, Perry JRB, Cappellani S, Mirza SS, Benton MC, Broeckel U, Medland SE, Lind PA, Malerba G, Drong A, Yengo L, Bielak LF, Zhi D, van der Most PJ, Shriner D, Mägi R, Hemani G, Karaderi T, **Wang Z**, Liu T, Demuth I, Zhao JH, Meng W, Lataniotis L, van der Laan SW, Bradfield JP, Wood AR, Bonnefond A, Ahluwalia TS, Hall LM, Salvi E, Yazar S, Carstensen L, de Haan HG, Abney M, Afzal U, Allison MA, Amin N, Asselbergs FW, Bakker SJL, Barr RG, Baumeister SE, Benjamin DJ, Bergmann S, Boerwinkle E, Bottinger EP, Campbell A, Chakravarti A, Chan Y, Chanock SJ, Chen C, Chen YI, Collins FS, Connell J, Correa A, Cupples LA, Smith GD, Davies G, Dörr M, Ehret G, Ellis SB, Feenstra B, Feitosa MF, Ford I, Fox CS, Frayling TM, Friedrich N, Geller F, Scotland G, Gillham-Nasenya I, Gottesman O, Graff M, Grodstein F, Gu C, Haley C, Hammond CJ, Harris SE, Harris TB, Hastie ND, Heard-Costa NL, Heikkilä K, Hocking LJ, Homuth G, Hottenga JJ, Huang J, Huffman JE, Hysi PG, Ikram MA, Ingelsson E, Joensuu A, Johansson Å, Jousilahti P, Jukema JW, Kähönen M, Kamatani Y, Kanoni S, Kerr SM, Khan NM, Koellinger P, Koistinen HA, Kooner MK, Kubo M, Kuusisto J, Lahti J, Launer LJ, Lea RA, Lehne B, Lehtimäki T, Liewald DCM, Lind L, Loh M, Lokki ML, London SJ, Loomis SJ, Loukola A, Lu Y, Lumley T, Lundqvist A, Männistö S, Marques-Vidal P, Masciullo C, Matchan A, Mathias RA, Matsuda K, Meigs JB, Meisinger C, Meitinger T, Menni C, Mentch FD, Mihailov E, Milani L, Montasser ME, Montgomery GW, Morrison A, Myers RH, Nadukuru R, Navarro P, Nelis M, Nieminen MS, Nolte IM, O'Connor GT, Ogunniyi A, Padmanabhan S, Palmas WR, Pankow JS, Patarcic I, Pavani F, Peyser PA, Pietilainen K, Poulter N, Prokopenko I, Ralhan S, Redmond P, Rich SS, Rissanen H, Robino A, Rose LM, Rose R, Sala C, Salako B, Salomaa V, Sarin AP, Saxena R, Schmidt H, Scott LJ, Scott WR, Sennblad B, Seshadri S, Sever P, Shrestha S, Smith BH, Smith JA, Soranzo N, Sotoodehnia N, Southam L, Stanton AV, Stathopoulou MG, Strauch K, Strawbridge RJ, Suderman MJ, Tandon N, Tang ST, Taylor KD, Tayo BO, Töglhofer AM, Tomaszewski M, Tšernikova N, Tuomilehto J, Uitterlinden AG, Vaidya D, van Hylckama Vlieg A, van Setten J, Vasankari T, Vedantam S, Vlachopoulou E, Vozzi D, Vuoksimaa E, Waldenberger M, Ware EB, Wentworth-Shields W, Whitfield JB, Wild S, Willemsen G, Yajnik CS, Yao J, Zaza G, Zhu X, Project TBJ, Salem RM, Melbye M, Bisgaard H, Samani NJ, Cusi D, Mackey DA, Cooper RS, Froguel P, Pasterkamp G, Grant SFA, Hakonarson H, Ferrucci L, Scott RA, Morris AD, Palmer CNA, Dedoussis G, Deloukas P, Bertram L, Lindenberger U, Berndt SI, Lindgren CM, Timpson NJ, Tönjes A, Munroe PB, Sørensen TIA, Rotimi CN, Arnett DK, Oldehinkel AJ, Kardia SLR, Balkau B, Gambaro G, Morris AP, Eriksson JG, Wright MJ, Martin NG, Hunt SC, Starr JM, Deary IJ, Griffiths LR, Tiemeier H, Pirastu N, Kaprio J, Wareham NJ, Pérusse L, Wilson JG, Girotto G, Caulfield MJ, Raitakari O, Boomsma DI, Gieger C, van der Harst P, Hicks AA, Kraft P, Sinisalo J, Knekt P, Johannesson M, Magnusson PKE, Hamsten A, Schmidt R, Borecki IB, Vartiainen E, Becker DM, Bharadwaj D, Mohlke KL, Boehnke M, van Duijn CM, Sanghera DK, Teumer A, Zeggini E, Metspalu A, Gasparini P, Ulivi S, Ober C, Toniolo D, Rudan I, Porteous DJ, Ciullo M, Spector TD, Hayward C, Dupuis J, Loos RJF, Wright AF, Chandak GR, Vollenweider P, Shuldiner A, Ridker PM, Rotter JI, Sattar N, Gyllensten U, North KE, Pirastu M, Psaty BM, Weir DR, Laakso M, Gudnason V, Takahashi A, Chambers JC, Kooner JS, Strachan DP, Campbell H, Hirschhorn JN, Perola M, Polašek O, Wilson JF. Directional dominance on stature and cognition in diverse human populations. Nature. 2015 Jul 23;523(7561):459-462. PMID: 26131930.

93. Hoffmann TJ, Van Den Eeden SK, Sakoda LC, Jorgenson E, Habel LA, Graff RE, Passarelli MN, Cario CL, Emami NC, Chao CR, Ghai NR, Shan J, Ranatunga DK, Quesenberry CP, Aaronson D, Presti J, **Wang Z**, Berndt SI, Chanock SJ, McDonnell SK, French AJ, Schaid DJ, Thibodeau SN, Li Q, Freedman ML, Penney KL, Mucci LA, Haiman CA, Henderson BE, Seminara D, Kvale MN, Kwok PY, Schaefer C, Risch N, Witte JS. A large multiethnic genome-wide association study of prostate cancer identifies novel risk variants and substantial ethnic differences. Cancer Discov. 2015 Aug;5(8):878-891. PMID: 26034056.

94. Sung H, Yang HH, Zhang H, Yang Q, Hu N, Tang ZZ, Su H, Wang L, Wang C, Ding T, Fan

JH, Qiao YL, Wheeler W, Giffen C, Burdett L, **Wang Z**, Lee MP, Chanock SJ, Dawsey SM, Freedman ND, Abnet CC, Goldstein AM, Yu K, Taylor PR, Hyland PL. Common genetic variants in epigenetic machinery genes and risk of upper gastrointestinal cancers. Int J Epidemiol. 2015 Aug;44(4):1341-1352. PMID: 25921222.

95. Mirabello L, Koster R, Moriarity BS, Spector LG, Meltzer PS, Gary J, Machiela MJ, Pankratz N, Panagiotou OA, Largaespada D, **Wang Z**, Gastier-Foster JM, Gorlick R, Khanna C, de Toledo SR, Petrilli AS, Patiño-Garcia A, Sierrasesúmaga L, Lecanda F, Andrulis IL, Wunder JS, Gokgoz N, Serra M, Hattinger C, Picci P, Scotlandi K, Flanagan AM, Tirabosco R, Amary MF, Halai D, Ballinger ML, Thomas DM, Davis S, Barkauskas DA, Marina N, Helman L, Otto GM, Becklin KL, Wolf NK, Weg MT, Tucker M, Wacholder S, Fraumeni JF Jr, Caporaso NE, Boland JF, Hicks BD, Vogt A, Burdett L, Yeager M, Hoover RN, Chanock SJ, Savage SA. A genome-wide scan identifies variants in NFIB associated with metastasis in patients with osteosarcoma. Cancer Discov. 2015 Sep;5(9):920-931. PMID: 26084801.

96. Winkler Justice AE, Graff M, Barata L, Feitosa MF, Chu S, Czajkowski J, Esko T, Fall T, Kilpeläinen TO, Lu Y, Mägi R, Mihailov E, Pers TH, Rüeger S, Teumer A, Ehret GB, Ferreira T, Heard-Costa NL, Karjalainen J, Lagou V, Mahajan A, Neinast MD, Prokopenko I, Simino J, Teslovich TM, Jansen R, Westra HJ, White CC, Absher D, Ahluwalia TS, Ahmad S, Albrecht E, Alves AC, Bragg-Gresham JL, de Craen AJ, Bis JC, Bonnefond A, Boucher G, Cadby G, Cheng YC, Chiang CW, Delgado G, Demirkan A, Dueker N, Eklund N, Eiriksdottir G, Eriksson J, Feenstra B, Fischer K, Frau F, Galesloot TE, Geller F, Goel A, Gorski M, Grammer TB, Gustafsson S, Haitjema S, Hottenga JJ, Huffman JE, Jackson AU, Jacobs KB, Johansson Å, Kaakinen M, Kleber ME, Lahti J, Mateo Leach I, Lehne B, Liu Y, Lo KS, Lorentzon M, Luan J, Madden PA, Mangino M, McKnight B, Medina-Gomez C, Monda KL, Montasser ME, Müller G, Müller-Nurasyid M, Nolte IM, Panoutsopoulou K, Pascoe L, Paternoster L, Rayner NW, Renström F, Rizzi F, Rose LM, Ryan KA, Salo P, Sanna S, Scharnagl H, Shi J, Smith AV, Southam L, Stančáková A, Steinthorsdottir V, Strawbridge RJ, Sung YJ, Tachmazidou I, Tanaka T, Thorleifsson G, Trompet S, Pervjakova N, Tyrer JP, Vandenput L, van der Laan SW, van der Velde N, van Setten J, van Vliet-Ostaptchouk JV, Verweij N, Vlachopoulou E, Waite LL, Wang SR, **Wang Z**, Wild SH, Willenborg C, Wilson JF, Wong A, Yang J, Yengo L, Yerges-Armstrong LM, Yu L, Zhang W, Zhao JH, Andersson EA, Bakker SJ, Baldassarre D, Banasik K, Barcella M, Barlassina C, Bellis C, Benaglio P, Blangero J, Blüher M, Bonnet F, Bonnycastle LL, Boyd HA, Bruinenberg M, Buchman AS, Campbell H, Chen YD, Chines PS, Claudi-Boehm S, Cole J, Collins FS, de Geus EJ, de Groot LC, Dimitriou M, Duan J, Enroth S, Eury E, Farmaki AE, Forouhi NG, Friedrich N, Gejman PV, Gigante B, Glorioso N, Go AS, Gottesman O, Gräßler J, Grallert H, Grarup N, Gu YM, Broer L, Ham AC, Hansen T, Harris TB, Hartman CA, Hassinen M, Hastie N, Hattersley AT, Heath AC, Henders AK, Hernandez D, Hillege H, Holmen O, Hovingh KG, Hui J, Husemoen LL, Hutri-Kähönen N, Hysi PG, Illig T, De Jager PL, Jalilzadeh S, Jørgensen T, Jukema JW, Juonala M, Kanoni S, Karaleftheri M, Khaw KT, Kinnunen L, Kittner SJ, Koenig W, Kolcic I, Kovacs P, Krarup NT, Kratzer W, Krüger J, Kuh D, Kumari M, Kyriakou T, Langenberg C, Lannfelt L, Lanzani C, Lotay V, Launer LJ, Leander K, Lindström J, Linneberg A, Liu YP, Lobbens S, Luben R, Lyssenko V, Männistö S, Magnusson PK, McArdle WL, Menni C, Merger S, Milani L, Montgomery GW, Morris AP, Narisu N, Nelis M, Ong KK, Palotie A, Pérusse L, Pichler I, Pilia MG, Pouta A, Rheinberger M, Ribel-Madsen R, Richards M, Rice KM, Rice TK, Rivolta C, Salomaa V, Sanders AR, Sarzynski MA, Scholtens S, Scott RA, Scott WR, Sebert S, Sengupta S, Sennblad B, Seufferlein T, Silveira A, Slagboom PE, Smit JH, Sparsø TH, Stirrups K, Stolk RP, Stringham HM, Swertz MA, Swift AJ, Syvänen AC, Tan ST, Thorand B, Tönjes A, Tremblay A, Tsafantakis E, van der Most PJ, Völker U, Vohl MC, Vonk JM, Waldenberger M, Walker RW, Wennauer R, Widén E, Willemsen G, Wilsgaard T, Wright AF, Zillikens MC, van Dijk SC, van Schoor NM, Asselbergs FW, de Bakker PI, Beckmann JS, Beilby J, Bennett DA, Bergman RN, Bergmann S, Böger CA, Boehm BO, Boerwinkle E, Boomsma DI, Bornstein SR, Bottinger EP, Bouchard C, Chambers JC, Chanock SJ, Chasman DI, Cucca F, Cusi D, Dedoussis G,

Erdmann J, Eriksson JG, Evans DA, de Faire U, Farrall M, Ferrucci L, Ford I, Franke L, Franks PW, Froguel P, Gansevoort RT, Gieger C, Grönberg H, Gudnason V, Gyllensten U, Hall P, Hamsten A, van der Harst P, Hayward C, Heliövaara M, Hengstenberg C, Hicks AA, Hingorani A, Hofman A, Hu F, Huikuri HV, Hveem K, James AL, Jordan JM, Jula A, Kähönen M, Kajantie E, Kathiresan S, Kiemeney LA, Kivimaki M, Knekt PB, Koistinen HA, Kooner JS, Koskinen S, Kuusisto J, Maerz W, Martin NG, Laakso M, Lakka TA, Lehtimäki T, Lettre G, Levinson DF, Lind L, Lokki ML, Mäntyselkä P, Melbye M, Metspalu A, Mitchell BD, Moll FL, Murray JC, Musk AW, Nieminen MS, Njølstad I, Ohlsson C, Oldehinkel AJ, Oostra BA, Palmer LJ, Pankow JS, Pasterkamp G, Pedersen NL, Pedersen O, Penninx BW, Perola M, Peters A, Polašek O, Pramstaller PP, Psaty BM, Qi L, Quertermous T, Raitakari OT, Rankinen T, Rauramaa R, Ridker PM, Rioux JD, Rivadeneira F, Rotter JI, Rudan I, den Ruijter HM, Saltevo J, Sattar N, Schunkert H, Schwarz PE, Shuldiner AR, Sinisalo J, Snieder H, Sørensen TI, Spector TD, Staessen JA, Stefania B, Thorsteinsdottir U, Stumvoll M, Tardif JC, Tremoli E, Tuomilehto J, Uitterlinden AG, Uusitupa M, Verbeek AL, Vermeulen SH, Viikari JS, Vitart V, Völzke H, Vollenweider P, Waeber G, Walker M, Wallaschofski H, Wareham NJ, Watkins H, Zeggini E, Chakravarti A, Clegg DJ, Cupples LA, Gordon-Larsen P, Jaquish CE, Rao DC, Abecasis GR, Assimes TL, Barroso I, Berndt SI, Boehnke M, Deloukas P, Fox CS, Groop LC, Hunter DJ, Ingelsson E, Kaplan RC, McCarthy MI, Mohlke KL, O'Connell JR, Schlessinger D, Strachan DP, Stefansson K, van Duijn CM, Hirschhorn JN, Lindgren CM, Heid IM, North KE, Borecki IB, Kutalik Z, Loos RJ. The Influence of age and sex on genetic associations with adult body size and shape: A large-scale genome-wide interaction study. PLoS Genet. 2015 Oct;11(10):e1005378. PMID: 26426971. *Erratum: PLoS Genet. 2016 Jun 29;12(6):e1006166. PMID: 27355579.*

97. Han Y, Hazelett DJ, Wiklund F, Schumacher FR, Stram DO, Berndt SI, **Wang Z**, Rand KA, Hoover RN, Machiela MJ, Yeager M, Burdette L, Chung CC, Hutchinson A, Yu K, Xu J, Travis RC, Key TJ, Siddiq A, Canzian F, Takahashi A, Kubo M, Stanford JL, Kolb S, Gapstur SM, Diver WR, Stevens VL, Strom SS, Pettaway CA, Al Olama AA, Kote-Jarai Z, Eeles RA, Yeboah ED, Tettey Y, Biritwum RB, Adjei AA, Tay E, Truelove A, Niwa S, Chokkalingam AP, Isaacs WB, Chen C, Lindstrom S, Le Marchand L, Giovannucci EL, Pomerantz M, Long H, Li F, Ma J, Stampfer M, John EM, Ingles SA, Kittles RA, Murphy AB, Blot WJ, Signorello LB, Zheng W, Albanes D, Virtamo J, Weinstein S, Nemesure B, Carpten J, Leske MC, Wu SY, Hennis AJ, Rybicki BA, Neslund-Dudas C, Hsing AW, Chu L, Goodman PJ, Klein EA, Zheng SL, Witte JS, Casey G, Riboli E, Li Q, Freedman ML, Hunter DJ, Gronberg H, Cook MB, Nakagawa H, Kraft P, Chanock SJ, Easton DF, Henderson BE, Coetzee GA, Conti DV, Haiman CA. Integration of multiethnic fine-mapping and genomic annotation to prioritize candidate functional SNPs at prostate cancer susceptibility regions. Hum Mol Genet. 2015 Oct 1;24(19):5603-5618. PMID: 26162851.

98. Sampson JN, Wheeler WA, Yeager M, Panagiotou O, **Wang Z**, Berndt SI, Lan Q, Abnet CC, Amundadottir LT, Figueroa JD, Landi MT, Mirabello L, Savage SA, Taylor PR, De Vivo I, McGlynn KA, Purdue MP, Rajaraman P, Adami HO, Ahlbom A, Albanes D, Amary MF, An SJ, Andersson U, Andriole G Jr, Andrulis IL, Angelucci E, Ansell SM, Arici C, Armstrong BK, Arslan AA, Austin MA, Baris D, Barkauskas DA, Bassig BA, Becker N, Benavente Y, Benhamou S, Berg C, Van den Berg D, Bernstein L, Bertrand KA, Birmann BM, Black A, Boeing H, Boffetta P, Boutron-Ruault MC, Bracci PM, Brinton L, Brooks-Wilson AR, Bueno-de-Mesquita HB, Burdett L, Buring J, Butler MA, Cai Q, Cancel-Tassin G, Canzian F, Carrato A, Carreon T, Carta A, Chan JK, Chang ET, Chang GC, Chang IS, Chang J, Chang-Claude J, Chen CJ, Chen CY, Chen C, Chen CH, Chen C, Chen H, Chen K, Chen KY, Chen KC, Chen Y, Chen YH, Chen YS, Chen YM, Chien LH, Chirlaque MD, Choi JE, Choi YY, Chow WH, Chung CC, Clavel J, Clavel-Chapelon F, Cocco P, Colt JS, Comperat E, Conde L, Connors JM, Conti D, Cortessis VK, Cotterchio M, Cozen W, Crouch S, Crous-Bou M, Cussenot O, Davis FG, Ding T, Diver WR, Dorronsoro M, Dossus L, Duell EJ, Ennas MG, Erickson RL, Feychting M, Flanagan AM, Foretova L, Fraumeni JF Jr, Freedman ND, Beane

Freeman LE, Fuchs C, Gago-Dominguez M, Gallinger S, Gao YT, Gapstur SM, Garcia-Closas M, García-Closas R, Gascoyne RD, Gastier-Foster J, Gaudet MM, Gaziano JM, Giffen C, Giles GG, Giovannucci E, Glimelius B, Goggins M, Gokgoz N, Goldstein AM, Gorlick R, Gross M, Grubb R 3rd, Gu J, Guan P, Gunter M, Guo H, Habermann TM, Haiman CA, Halai D, Hallmans G, Hassan M, Hattinger C, He Q, He X, Helzlsouer K, Henderson B, Henriksson R, Hjalgrim H, Hoffman-Bolton J, Hohensee C, Holford TR, Holly EA, Hong YC, Hoover RN, Horn-Ross PL, Hosain GM, Hosgood HD 3rd, Hsiao CF, Hu N, Hu W, Hu Z, Huang MS, Huerta JM, Hung JY, Hutchinson A, Inskip PD, Jackson RD, Jacobs EJ, Jenab M, Jeon HS, Ji BT, Jin G, Jin L, Johansen C, Johnson A, Jung YJ, Kaaks R, Kamineni A, Kane E, Kang CH, Karagas MR, Kelly RS, Khaw KT, Kim C, Kim HN, Kim JH, Kim JS, Kim YH, Kim YT, Kim YC, Kitahara CM, Klein AP, Klein RJ, Kogevinas M, Kohno T, Kolonel LN, Kooperberg C, Kricker A, Krogh V, Kunitoh H, Kurtz RC, Kweon SS, LaCroix A, Lawrence C, Lecanda F, Lee VH, Li D, Li H, Li J, Li YJ, Li Y, Liao LM, Liebow M, Lightfoot T, Lim WY, Lin CC, Lin D, Lindstrom S, Linet MS, Link BK, Liu C, Liu J, Liu L, Ljungberg B, Lloreta J, Di Lollo S, Lu D, Lund E, Malats N, Mannisto S, Le Marchand L, Marina N, Masala G, Mastrangelo G, Matsuo K, Maynadie M, McKay J, McKean-Cowdin R, Melbye M, Melin BS, Michaud DS, Mitsudomi T, Monnereau A, Montalvan R, Moore LE, Mortensen LM, Nieters A, North KE, Novak AJ, Oberg AL, Offit K, Oh IJ, Olson SH, Palli D, Pao W, Park IK, Park JY, Park KH, Patiño-Garcia A, Pavanello S, Peeters PH, Perng RP, Peters U, Petersen GM, Picci P, Pike MC, Porru S, Prescott J, Prokunina-Olsson L, Qian B, Qiao YL, Rais M, Riboli E, Riby J, Risch HA, Rizzato C, Rodabough R, Roman E, Roupret M, Ruder AM, Sanjose Sd, Scelo G, Schned A, Schumacher F, Schwartz K, Schwenn M, Scotlandi K, Seow A, Serra C, Serra M, Sesso HD, Setiawan VW, Severi G, Severson RK, Shanafelt TD, Shen H, Shen W, Shin MH, Shiraishi K, Shu XO, Siddiq A, Sierrasesúmaga L, Sihoe AD, Skibola CF, Smith A, Smith MT, Southey MC, Spinelli JJ, Staines A, Stampfer M, Stern MC, Stevens VL, Stolzenberg-Solomon RS, Su J, Su WC, Sund M, Sung JS, Sung SW, Tan W, Tang W, Tardón A, Thomas D, Thompson CA, Tinker LF, Tirabosco R, Tjønneland A, Travis RC, Trichopoulos D, Tsai FY, Tsai YH, Tucker M, Turner J, Vajdic CM, Vermeulen RC, Villano DJ, Vineis P, Virtamo J, Visvanathan K, Wactawski-Wende J, Wang C, Wang CL, Wang JC, Wang J, Wei F, Weiderpass E, Weiner GJ, Weinstein S, Wentzensen N, White E, Witzig TE, Wolpin BM, Wong MP, Wu C, Wu G, Wu J, Wu T, Wu W, Wu X, Wu YL, Wunder JS, Xiang YB, Xu J, Xu P, Yang PC, Yang TY, Ye Y, Yin Z, Yokota J, Yoon HI, Yu CJ, Yu H, Yu K, Yuan JM, Zelenetz A, Zeleniuch-Jacquotte A, Zhang XC, Zhang Y, Zhao X, Zhao Z, Zheng H, Zheng T, Zheng W, Zhou B, Zhu M, Zucca M, Boca SM, Cerhan JR, Ferri GM, Hartge P, Hsiung CA, Magnani C, Miligi L, Morton LM, Smedby KE, Teras LR, Vijai J, Wang SS, Brennan P, Caporaso NE, Hunter DJ, Kraft P, Rothman N, Silverman DT, Slager SL, Chanock SJ, Chatterjee N. Analysis of heritability and shared heritability based on genome-wide association studies for 13 cancer types. J Natl Cancer Inst. 2015 Oct 12;107(12):djv279. PMID: 26464424. *Erratum: J Natl Cancer Inst. 2016 Mar 31;108(4). PMID: 27032727.*

99. Campa D, Rizzato C, Stolzenberg-Solomon R, Pacetti P, Vodicka P, Cleary SP, Capurso G, Bueno-de-Mesquita HB, Werner J, Gazouli M, Butterbach K, Ivanauskas A, Giese N, Petersen GM, Fogar P, **Wang Z**, Bassi C, Ryska M, Theodoropoulos GE, Kooperberg C, Li D, Greenhalf W, Pasquali C, Hackert T, Fuchs CS, Mohelnikova-Duchonova B, Sperti C, Funel N, Dieffenbach AK, Wareham NJ, Buring J, Holcátová I, Costello E, Zambon CF, Kupcinskas J, Risch HA, Kraft P, Bracci PM, Pezzilli R, Olson SH, Sesso HD, Hartge P, Strobel O, Małecka-Panas E, Visvanathan K, Arslan AA, Pedrazzoli S, Souček P, Gioffreda D, Key TJ, Talar-Wojnarowska R, Scarpa A, Mambrini A, Jacobs EJ, Jamroziak K, Klein A, Tavano F, Bambi F, Landi S, Austin MA, Vodickova L, Brenner H, Chanock SJ, Delle Fave G, Piepoli A, Cantore M, Zheng W, Wolpin BM, Amundadottir LT, Canzian F. TERT gene harbors multiple variants associated with pancreatic cancer susceptibility. Int J Cancer. 2015 Nov 1;137(9):2175-2183. PMID: 25940397.

100. Han Y, Rand KA, Hazelett DJ, Ingles SA, Kittles RA, Strom SS, Rybicki BA, Nemesure B,

Isaacs WB, Stanford JL, Zheng W, Schumacher FR, Berndt SI, **Wang Z**, Xu J, Rohland N, Reich D, Tandon A, Pasaniuc B, Allen A, Quinque D, Mallick S, Notani D, Rosenfeld MG, Jayani RS, Kolb S, Gapstur SM, Stevens VL, Pettaway CA, Yeboah ED, Tettey Y, Biritwum RB, Adjei AA, Tay E, Truelove A, Niwa S, Chokkalingam AP, John EM, Murphy AB, Signorello LB, Carpten J, Leske MC, Wu SY, Hennis AJM, Neslund-Dudas C, Hsing AW, Chu L, Goodman PJ, Klein EA, Zheng SL, Witte JS, Casey G, Lubwama A, Pooler LC, Sheng X, Coetzee GA, Cook MB, Chanock SJ, Stram DO, Watya S, Blot WJ, Conti DV, Henderson BE, Haiman CA. Prostate cancer susceptibility in men of African Ancestry at 8q24. J Natl Cancer Inst. 2016 Jan 27;108(7). PMID: 26823525.

101. Hyland PL, Zhang H, Yang Q, Yang HH, Hu N, Lin SW, Su H, Wang L, Wang C, Ding T, Fan JH, Qiao YL, Sung H, Wheeler W, Giffen C, Burdett L, **Wang Z**, Lee MP, Chanock SJ, Dawsey SM, Freedman ND, Abnet CC, Goldstein AM, Yu K, Taylor PR. Pathway, in silico and tissue-specific expression quantitative analyses of oesophageal squamous cell carcinoma genome-wide association studies data. Int J Epidemiol. 2016 Feb;45(1):206-220. PMID: 26635288.

102. Diamond EL, Durham BH, Haroche J, Yao Z, Ma J, Parikh SA, **Wang Z**, Choi J, Kim E, Cohen-Aubart F, Lee SC, Gao Y, Micol JB, Campbell P, Walsh MP, Sylvester B, Dolgalev I, Aminova O, Heguy A, Zappile P, Nakitandwe J, Ganzel C, Dalton JD, Ellison DW, Estrada-Veras J, Lacouture M, Gahl WA, Stephens PJ, Miller VA, Ross JS, Ali SM, Briggs SR, Fasan O, Block J, Héritier S, Donadieu J, Solit DB, Hyman DM, Baselga J, Janku F, Taylor BS, Park CY, Amoura Z, Dogan A, Emile JF, Rosen N, Gruber TA, Abdel-Wahab O. Diverse and targetable kinase alterations drive histiocytic neoplasms. Cancer Discov. 2016 Feb;6(2):154-165. PMID: 26566875.

103. **Wang Z**, Seow WJ, Shiraishi K, Hsiung CA, Matsuo K, Liu J, Chen K, Yamji T, Yang Y, Chang IS, Wu C, Hong YC, Burdett L, Wyatt K, Chung CC, Li SA, Yeager M, Hutchinson A, Hu W, Caporaso N, Landi MT, Chatterjee N, Song M, Fraumeni JF Jr, Kohno T, Yokota J, Kunitoh H, Ashikawa K, Momozawa Y, Daigo Y, Mitsudomi T, Yatabe Y, Hida T, Hu Z, Dai J, Ma H, Jin G, Song B, Wang Z, Cheng S, Yin Z, Li X, Ren Y, Guan P, Chang J, Tan W, Chen CJ, Chang GC, Tsai YH, Su WC, Chen KY, Huang MS, Chen YM, Zheng H, Li H, Cui P, Guo H, Xu P, Liu L, Iwasaki M, Shimazu T, Tsugane S, Zhu J, Jiang G, Fei K, Park JY, Kim YH, Sung JS, Park KH, Kim YT, Jung YJ, Kang CH, Park IK, Kim HN, Jeon HS, Choi JE, Choi YY, Kim JH, Oh IJ, Kim YC, Sung SW, Kim JS, Yoon HI, Kweon SS, Shin MH, Seow A, Chen Y, Lim WY, Liu J, Wong MP, Lee VH, Bassig BA, Tucker M, Berndt SI, Chow WH, Ji BT, Wang J, Xu J, Sihoe AD, Ho JC, Chan JK, Wang JC, Lu D, Zhao X, Zhao Z, Wu J, Chen H, Jin L, Wei F, Wu G, An SJ, Zhang XC, Su J, Wu YL, Gao YT, Xiang YB, He X, Li J, Zheng W, Shu XO, Cai Q, Klein R, Pao W, Lawrence C, Hosgood HD 3rd, Hsiao CF, Chien LH, Chen YH, Chen CH, Wang WC, Chen CY, Wang CL, Yu CJ, Chen HL, Su YC, Tsai FY, Chen YS, Li YJ, Yang TY, Lin CC, Yang PC, Wu T, Lin D, Zhou B, Yu J, Shen H, Kubo M, Chanock SJ, Rothman N, Lan Q. Meta-analysis of genome-wide association studies identifies multiple lung cancer susceptibility loci in never-smoking Asian women. Hum Mol Genet. 2016 Feb 1;25(3):620-629. PMID: 26732429. Role: First & corresponding author

104. Berndt SI, Camp NJ, Skibola CF, Vijai J, **Wang Z**, Gu J, Nieters A, Kelly RS, Smedby KE, Monnereau A, Cozen W, Cox A, Wang SS, Lan Q, Teras LR, Machado M, Yeager M, Brooks-Wilson AR, Hartge P, Purdue MP, Birmann BM, Vajdic CM, Cocco P, Zhang Y, Giles GG, Zeleniuch-Jacquotte A, Lawrence C, Montalvan R, Burdett L, Hutchinson A, Ye Y, Call TG, Shanafelt TD, Novak AJ, Kay NE, Liebow M, Cunningham JM, Allmer C, Hjalgrim H, Adami HO, Melbye M, Glimelius B, Chang ET, Glenn M, Curtin K, Cannon-Albright LA, Diver WR, Link BK, Weiner GJ, Conde L, Bracci PM, Riby J, Arnett DK, Zhi D, Leach JM, Holly EA, Jackson RD, Tinker LF, Benavente Y, Sala N, Casabonne D, Becker N, Boffetta P, Brennan P, Foretova L, Maynadie M, McKay J, Staines A, Chaffee KG, Achenbach SJ, Vachon CM, Goldin LR, Strom SS, Leis JF, Weinberg JB, Caporaso NE, Norman AD, De Roos AJ, Morton

LM, Severson RK, Riboli E, Vineis P, Kaaks R, Masala G, Weiderpass E, Chirlaque MD, Vermeulen RC, Travis RC, Southey MC, Milne RL, Albanes D, Virtamo J, Weinstein S, Clavel J, Zheng T, Holford TR, Villano DJ, Maria A, Spinelli JJ, Gascoyne RD, Connors JM, Bertrand KA, Giovannucci E, Kraft P, Kricker A, Turner J, Ennas MG, Ferri GM, Miligi L, Liang L, Ma B, Huang J, Crouch S, Park JH, Chatterjee N, North KE, Snowden JA, Wright J, Fraumeni JF, Offit K, Wu X, de Sanjose S, Cerhan JR, Chanock SJ, Rothman N, Slager SL. Meta-analysis of genome-wide association studies discovers multiple loci for chronic lymphocytic leukemia. Nat Commun. 2016 Mar 9;7:10933. PMID: 26956414. Role: Co-First author

105. Figueroa JD, Middlebrooks CD, Banday AR, Ye Y, Garcia-Closas M, Chatterjee N, Koutros S, Kiemeney LA, Rafnar T, Bishop T, Furberg H, Matullo G, Golka K, Gago-Dominguez M, Taylor JA, Fletcher T, Siddiq A, Cortessis VK, Kooperberg C, Cussenot O, Benhamou S, Prescott J, Porru S, Dinney CP, Malats N, Baris D, Purdue MP, Jacobs EJ, Albanes D, **Wang Z**, Chung CC, Vermeulen SH, Aben KK, Galesloot TE, Thorleifsson G, Sulem P, Stefansson K, Kiltie AE, Harland M, Teo M, Offit K, Vijai J, Bajorin D, Kopp R, Fiorito G, Guarrera S, Sacerdote C, Selinski S, Hengstler JG, Gerullis H, Ovsiannikov D, Blaszkewicz M, Castelao JE, Calaza M, Martinez ME, Cordeiro P, Xu Z, Panduri V, Kumar R, Gurzau E, Koppova K, Bueno-De-Mesquita HB, Ljungberg B, Clavel-Chapelon F, Weiderpass E, Krogh V, Dorronsoro M, Travis RC, Tjønneland A, Brennan P, Chang-Claude J, Riboli E, Conti D, Stern MC, Pike MC, Van den Berg D, Yuan JM, Hohensee C, Jeppson RP, Cancel-Tassin G, Roupret M, Comperat E, Turman C, De Vivo I, Giovannucci E, Hunter DJ, Kraft P, Lindstrom S, Carta A, Pavanello S, Arici C, Mastrangelo G, Kamat AM, Zhang L, Gong Y, Pu X, Hutchinson A, Burdett L, Wheeler WA, Karagas MR, Johnson A, Schned A, Monawar Hosain GM, Schwenn M, Kogevinas M, Tardón A, Serra C, Carrato A, García-Closas R, Lloreta J, Andriole G Jr, Grubb R 3rd, Black A, Diver WR, Gapstur SM, Weinstein S, Virtamo J, Haiman CA, Landi MT, Caporaso NE, Fraumeni JF Jr, Vineis P, Wu X, Chanock SJ, Silverman DT, Prokunina-Olsson L, Rothman N. Identification of a novel susceptibility locus at 13q34 and refinement of the 20p12.2 region as a multi-signal locus associated with bladder cancer risk in individuals of European ancestry. Hum Mol Genet. 2016 Mar 15;25(6):1203-1214. PMID: 26732427.

106. Machiela MJ, Lan Q, Slager SL, Vermeulen RC, Teras LR, Camp NJ, Cerhan JR, Spinelli JJ, Wang SS, Nieters A, Vijai J, Yeager M, **Wang Z**, Ghesquières H, McKay J, Conde L, de Bakker PI, Cox DG, Burdett L, Monnereau A, Flowers CR, De Roos AJ, Brooks-Wilson AR, Giles GG, Melbye M, Gu J, Jackson RD, Kane E, Purdue MP, Vajdic CM, Albanes D, Kelly RS, Zucca M, Bertrand KA, Zeleniuch-Jacquotte A, Lawrence C, Hutchinson A, Zhi D, Habermann TM, Link BK, Novak AJ, Dogan A, Asmann YW, Liebow M, Thompson CA, Ansell SM, Witzig TE, Tilly H, Haioun C, Molina TJ, Hjalgrim H, Glimelius B, Adami HO, Roos G, Bracci PM, Riby J, Smith MT, Holly EA, Cozen W, Hartge P, Morton LM, Severson RK, Tinker LF, North KE, Becker N, Benavente Y, Boffetta P, Brennan P, Foretova L, Maynadie M, Staines A, Lightfoot T, Crouch S, Smith A, Roman E, Diver WR, Offit K, Zelenetz A, Klein RJ, Villano DJ, Zheng T, Zhang Y, Holford TR, Turner J, Southey MC, Clavel J, Virtamo J, Weinstein S, Riboli E, Vineis P, Kaaks R, Boeing H, Tjønneland A, Angelucci E, Di Lollo S, Rais M, De Vivo I, Giovannucci E, Kraft P, Huang J, Ma B, Ye Y, Chiu BC, Liang L, Park JH, Chung CC, Weisenburger DD, Fraumeni JF Jr, Salles G, Glenn M, Cannon-Albright L, Curtin K, Wu X, Smedby KE, de Sanjose S, Skibola CF, Berndt SI, Birmann BM, Chanock SJ, Rothman N. Genetically predicted longer telomere length is associated with increased risk of B-cell lymphoma subtypes. Hum Mol Genet. 2016 Apr 15;25(8):1663-1676. PMID: 27008888.

107. Couch FJ, Kuchenbaecker KB, Michailidou K, Mendoza-Fandino GA, Nord S, Lilyquist J, Olswold C, Hallberg E, Agata S, Ahsan H, Aittomäki K, Ambrosone C, Andrulis IL, Anton-Culver H, Arndt V, Arun BK, Arver B, Barile M, Barkardottir RB, Barrowdale D, Beckmann L, Beckmann MW, Benitez J, Blank SV, Blomqvist C, Bogdanova NV, Bojesen SE, Bolla MK, Bonanni B, Brauch H, Brenner H, Burwinkel B, Buys SS, Caldes T, Caligo MA, Canzian F,

Carpenter J, Chang-Claude J, Chanock SJ, Chung WK, Claes KB, Cox A, Cross SS, Cunningham JM, Czene K, Daly MB, Damiola F, Darabi H, de la Hoya M, Devilee P, Diez O, Ding YC, Dolcetti R, Domchek SM, Dorfling CM, Dos-Santos-Silva I, Dumont M, Dunning AM, Eccles DM, Ehrencrona H, Ekici AB, Eliassen H, Ellis S, Fasching PA, Figueroa J, Flesch-Janys D, Försti A, Fostira F, Foulkes WD, Friebel T, Friedman E, Frost D, Gabrielson M, Gammon MD, Ganz PA, Gapstur SM, Garber J, Gaudet MM, Gayther SA, Gerdes AM, Ghoussaini M, Giles GG, Glendon G, Godwin AK, Goldberg MS, Goldgar DE, González-Neira A, Greene MH, Gronwald J, Guénel P, Gunter M, Haeberle L, Haiman CA, Hamann U, Hansen TV, Hart S, Healey S, Heikkinen T, Henderson BE, Herzog J, Hogervorst FB, Hollestelle A, Hooning MJ, Hoover RN, Hopper JL, Humphreys K, Hunter DJ, Huzarski T, Imyanitov EN, Isaacs C, Jakubowska A, James P, Janavicius R, Jensen UB, John EM, Jones M, Kabisch M, Kar S, Karlan BY, Khan S, Khaw KT, Kibriya MG, Knight JA, Ko YD, Konstantopoulou I, Kosma VM, Kristensen V, Kwong A, Laitman Y, Lambrechts D, Lazaro C, Lee E, Le Marchand L, Lester J, Lindblom A, Lindor N, Lindstrom S, Liu J, Long J, Lubinski J, Mai PL, Makalic E, Malone KE, Mannermaa A, Manoukian S, Margolin S, Marme F, Martens JW, McGuffog L, Meindl A, Miller A, Milne RL, Miron P, Montagna M, Mazoyer S, Mulligan AM, Muranen TA, Nathanson KL, Neuhausen SL, Nevanlinna H, Nordestgaard BG, Nussbaum RL, Offit K, Olah E, Olopade OI, Olson JE, Osorio A, Park SK, Peeters PH, Peissel B, Peterlongo P, Peto J, Phelan CM, Pilarski R, Poppe B, Pylkäs K, Radice P, Rahman N, Rantala J, Rappaport C, Rennert G, Richardson A, Robson M, Romieu I, Rudolph A, Rutgers EJ, Sanchez MJ, Santella RM, Sawyer EJ, Schmidt DF, Schmidt MK, Schmutzler RK, Schumacher F, Scott R, Senter L, Sharma P, Simard J, Singer CF, Sinilnikova OM, Soucy P, Southey M, Steinemann D, Stenmark-Askmalm M, Stoppa-Lyonnet D, Swerdlow A, Szabo CI, Tamimi R, Tapper W, Teixeira MR, Teo SH, Terry MB, Thomassen M, Thompson D, Tihomirova L, Toland AE, Tollenaar RA, Tomlinson I, Truong T, Tsimiklis H, Teulé A, Tumino R, Tung N, Turnbull C, Ursin G, van Deurzen CH, van Rensburg EJ, Varon-Mateeva R, **Wang Z**, Wang-Gohrke S, Weiderpass E, Weitzel JN, Whittemore A, Wildiers H, Winqvist R, Yang XR, Yannoukakos D, Yao S, Zamora MP, Zheng W, Hall P, Kraft P, Vachon C, Slager S, Chenevix-Trench G, Pharoah PD, Monteiro AA, García-Closas M, Easton DF, Antoniou AC. Identification of four novel susceptibility loci for oestrogen receptor negative breast cancer. Nat Commun. 2016 Apr 27;7:11375. PMID: 27117709.

108. Machiela MJ, Zhou W, Karlins E, Sampson JN, Freedman ND, Yang Q, Hicks B, Dagnall C, Hautman C, Jacobs KB, Abnet CC, Aldrich MC, Amos C, Amundadottir LT, Arslan AA, Beane-Freeman LE, Berndt SI, Black A, Blot WJ, Bock CH, Bracci PM, Brinton LA, Bueno-de-Mesquita HB, Burdett L, Buring JE, Butler MA, Canzian F, Carreón T, Chaffee KG, Chang IS, Chatterjee N, Chen C, Chen C, Chen K, Chung CC, Cook LS, Crous Bou M, Cullen M, Davis FG, De Vivo I, Ding T, Doherty J, Duell EJ, Epstein CG, Fan JH, Figueroa JD, Fraumeni JF, Friedenreich CM, Fuchs CS, Gallinger S, Gao YT, Gapstur SM, Garcia-Closas M, Gaudet MM, Gaziano JM, Giles GG, Gillanders EM, Giovannucci EL, Goldin L, Goldstein AM, Haiman CA, Hallmans G, Hankinson SE, Harris CC, Henriksson R, Holly EA, Hong YC, Hoover RN, Hsiung CA, Hu N, Hu W, Hunter DJ, Hutchinson A, Jenab M, Johansen C, Khaw KT, Kim HN, Kim YH, Kim YT, Klein AP, Klein R, Koh WP, Kolonel LN, Kooperberg C, Kraft P, Krogh V, Kurtz RC, LaCroix A, Lan Q, Landi MT, Marchand LL, Li D, Liang X, Liao LM, Lin D, Liu J, Lissowska J, Lu L, Magliocco AM, Malats N, Matsuo K, McNeill LH, McWilliams RR, Melin BS, Mirabello L, Moore L, Olson SH, Orlow I, Park JY, Patiño-Garcia A, Peplonska B, Peters U, Petersen GM, Pooler L, Prescott J, Prokunina-Olsson L, Purdue MP, Qiao YL, Rajaraman P, Real FX, Riboli E, Risch HA, Rodriguez-Santiago B, Ruder AM, Savage SA, Schumacher F, Schwartz AG, Schwartz KL, Seow A, Wendy Setiawan V, Severi G, Shen H, Sheng X, Shin MH, Shu XO, Silverman DT, Spitz MR, Stevens VL, Stolzenberg-Solomon R, Stram D, Tang ZZ, Taylor PR, Teras LR, Tobias GS, Van den Berg D, Visvanathan K, Wacholder S, Wang JC, **Wang Z**, Wentzensen N, Wheeler W, White E, Wiencke JK, Wolpin BM, Wong MP, Wu C, Wu T, Wu X, Wu YL, Wunder JS, Xia L, Yang HP, Yang PC, Yu K, Zanetti KA, Zeleniuch-Jacquotte A, Zheng W, Zhou B, Ziegler RG, Perez-Jurado LA, Caporaso NE, Rothman N,

Tucker M, Dean MC, Yeager M, Chanock SJ. Female chromosome X mosaicism is age-related and preferentially affects the inactivated X chromosome. Nat Commun. 2016 Jun 13;7:11843. PMID: 27291797.

109. Chen MM, O'Mara TA, Thompson DJ, Painter JN; Australian National Endometrial Cancer Study Group (ANECS), Attia J, Black A, Brinton L, Chanock S, Chen C, Cheng TH, Cook LS, Crous-Bou M, Doherty J, Friedenreich CM, Garcia-Closas M, Gaudet MM, Gorman M, Haiman C, Hankinson SE, Hartge P, Henderson BE, Hodgson S, Holliday EG, Horn-Ross PL, Hunter DJ, Le Marchand L, Liang X, Lissowska J, Long J, Lu L, Magliocco AM, Martin L, McEvoy M; National Study Of Endometrial Cancer Genetics Group (NSECG), Olson SH, Orlow I, Pooler L, Prescott J, Rastogi R, Rebbeck TR, Risch H, Sacerdote C, Schumacher F, Wendy Setiawan V, Scott RJ, Sheng X, Shu XO, Turman C, Van den Berg D, **Wang Z**, Weiss NS, Wentzensen N, Xia L, Xiang YB, Yang HP, Yu H, Zheng W, Pharoah PD, Dunning AM, Tomlinson I, Easton DF, Kraft P, Spurdle AB, De Vivo I. GWAS meta-analysis of 16 852 women identifies new susceptibility locus for endometrial cancer. Hum Mol Genet. 2016 Jun 15;25(12):2612-2620. PMID: 27008869.

110. Zanetti KA, **Wang Z**, Aldrich M, Amos CI, Blot WJ, Bowman ED, Burdette L, Cai Q, Caporaso N, Chung CC, Gillanders EM, Haiman CA, Hansen HM, Henderson BE, Kolonel LN, Marchand LL, Li S, McNeill LH, Ryan BM, Schwartz AG, Sison JD, Spitz MR, Tucker M, Wenzlaff AS, Wiencke JK, Wilkens L, Wrensch MR, Wu X, Zheng W, Zhou W, Christiani D, Palmer JR, Penning TM, Rieber AG, Rosenberg L, Ruiz-Narvaez EA, Su L, Vachani A, Wei Y, Whitehead AS, Chanock SJ, Harris CC. Genome-wide association study confirms lung cancer susceptibility loci on chromosomes 5p15 and 15q25 in an African-American population. Lung Cancer. 2016 Aug;98:33-42. PMID: 27393504. Role: Co-First author

111. Fehringer G, Kraft P, Pharoah PD, Eeles RA, Chatterjee N, Schumacher FR, Schildkraut JM, Lindström S, Brennan P, Bickeböller H, Houlston RS, Landi MT, Caporaso N, Risch A, Amin Al Olama A, Berndt SI, Giovannucci EL, Grönberg H, Kote-Jarai Z, Ma J, Muir K, Stampfer MJ, Stevens VL, Wiklund F, Willett WC, Goode EL, Permuth JB, Risch HA, Reid BM, Bezieau S, Brenner H, Chan AT, Chang-Claude J, Hudson TJ, Kocarnik JK, Newcomb PA, Schoen RE, Slattery ML, White E, Adank MA, Ahsan H, Aittomäki K, Baglietto L, Blomquist C, Canzian F, Czene K, Dos-Santos-Silva I, Eliassen AH, Figueroa JD, Flesch-Janys D, Fletcher O, Garcia-Closas M, Gaudet MM, Johnson N, Hall P, Hazra A, Hein R, Hofman A, Hopper JL, Irwanto A, Johansson M, Kaaks R, Kibriya MG, Lichtner P, Liu J, Lund E, Makalic E, Meindl A, Müller-Myhsok B, Muranen TA, Nevanlinna H, Peeters PH, Peto J, Prentice RL, Rahman N, Sanchez MJ, Schmidt DF, Schmutzler RK, Southey MC, Tamimi R, Travis RC, Turnbull C, Uitterlinden AG, **Wang Z**, Whittemore AS, Yang XR, Zheng W, Buchanan DD, Casey G, Conti DV, Edlund CK, Gallinger S, Haile RW, Jenkins M, Le Marchand L, Li L, Lindor NM, Schmit SL, Thibodeau SN, Woods MO, Rafnar T, Gudmundsson J, Stacey SN, Stefansson K, Sulem P, Chen YA, Tyrer JP, Christiani DC, Wei Y, Shen H, Hu Z, Shu XO, Shiraishi K, Takahashi A, Bossé Y, Obeidat M, Nickle D, Timens W, Freedman ML, Li Q, Seminara D, Chanock SJ, Gong J, Peters U, Gruber SB, Amos CI, Sellers TA, Easton DF, Hunter DJ, Haiman CA, Henderson BE, Hung RJ; Ovarian Cancer Association Consortium (OCAC); PRACTICAL Consortium; Hereditary Breast and Ovarian Cancer Research Group Netherlands (HEBON); Colorectal Transdisciplinary (CORECT) Study; African American Breast Cancer Consortium (AABC) and African Ancestry Prostate Cancer Consortium (AAPC). Cross-cancer genome-wide analysis of lung, ovary, breast, prostate, and colorectal cancer reveals novel pleiotropic associations. Cancer Res. 2016 Sep 1;76(17):5103-5114. PMID: 27197191.

112. Hu N, **Wang Z**, Song X, Wei L, Kim BS, Freedman ND, Baek J, Burdette L, Chang J, Chung C, Dawsey SM, Ding T, Gao YT, Giffen C, Han Y, Hong M, Huang J, Kim HS, Koh WP, Liao LM, Mao YM, Qiao YL, Shu XO, Tan W, Wang C, Wu C, Wu MJ, Xiang YB, Yeager M, Yook JH, Yuan JM, Zhang P, Zhao XK, Zheng W, Song K, Wang LD, Lin D, Chanock SJ, Goldstein

AM, Taylor PR, Abnet CC. Genome-wide association study of gastric adenocarcinoma in Asia: A comparison of associations between cardia and non-cardia tumours. Gut. 2016 Oct;65(10):1611-1618. PMID: 26129866. Role: Co-First author

113. Zhang M, **Wang Z**, Obazee O, Jia J, Childs EJ, Hoskins J, Figlioli G, Mocci E, Collins I, Chung CC, Hautman C, Arslan AA, Beane-Freeman L, Bracci PM, Buring J, Duell EJ, Gallinger S, Giles GG, Goodman GE, Goodman PJ, Kamineni A, Kolonel LN, Kulke MH, Malats N, Olson SH, Sesso HD, Visvanathan K, White E, Zheng W, Abnet CC, Albanes D, Andreotti G, Brais L, Bueno-de-Mesquita HB, Basso D, Berndt SI, Boutron-Ruault MC, Bijlsma MF, Brenner H, Burdette L, Campa D, Caporaso NE, Capurso G, Cavestro GM, Cotterchio M, Costello E, Elena J, Boggi U, Gaziano JM, Gazouli M, Giovannucci EL, Goggins M, Gross M, Haiman CA, Hassan M, Helzlsouer KJ, Hu N, Hunter DJ, Iskierka-Jazdzewska E, Jenab M, Kaaks R, Key TJ, Khaw KT, Klein EA, Kogevinas M, Krogh V, Kupcinskas J, Kurtz RC, Landi MT, Landi S, Le Marchand L, Mambrini A, Mannisto S, Milne RL, Neale RE, Oberg AL, Panico S, Patel AV, Peeters PH, Peters U, Pezzilli R, Porta M, Purdue M, Quiros JR, Riboli E, Rothman N, Scarpa A, Scelo G, Shu XO, Silverman DT, Soucek P, Strobel O, Sund M, Małecka-Panas E, Taylor PR, Tavano F, Travis RC, Thornquist M, Tjønneland A, Tobias GS, Trichopoulos D, Vashist Y, Vodicka P, Wactawski-Wende J, Wentzensen N, Yu H, Yu K, Zeleniuch-Jacquotte A, Kooperberg C, Risch HA, Jacobs EJ, Li D, Fuchs C, Hoover R, Hartge P, Chanock SJ, Petersen GM, Stolzenberg-Solomon RS, Wolpin BM, Kraft P, Klein AP, Canzian F, Amundadottir LT. Three new pancreatic cancer susceptibility signals identified on chromosomes 1q32.1, 5p15.33 and 8q24.21. Oncotarget. 2016 Oct 11;7(41):66328-66343. PMID: 27579533.

114. Hoskins JW, Ibrahim A, Emmanuel MA, Manmiller SM, Wu Y, O'Neill M, Jia J, Collins I, Zhang M, Thomas JV, Rost LM, Das S, Parikh H, Haake JM, Matters GL, Kurtz RC, Bamlet WR, Klein A, Stolzenberg-Solomon R, Wolpin BM, Yarden R, **Wang Z**, Smith J, Olson SH, Andresson T, Petersen GM, Amundadottir LT. Functional characterization of a chr13q22.1 pancreatic cancer risk locus reveals long-range interaction and allele-specific effects on DIS3 expression. Hum Mol Genet. 2016 Nov 1;25(21):4726-4738. PMID: 28172817.

115. Seow WJ, Matsuo K, Hsiung CA, Shiraishi K, Song M, Kim HN, Wong MP, Hong YC, Hosgood HD 3rd, **Wang Z**, Chang IS, Wang JC, Chatterjee N, Tucker M, Wei H, Mitsudomi T, Zheng W, Kim JH, Zhou B, Caporaso NE, Albanes D, Shin MH, Chung LP, An SJ, Wang P, Zheng H, Yatabe Y, Zhang XC, Kim YT, Shu XO, Kim YC, Bassig BA, Chang J, Ho JC, Ji BT, Kubo M, Daigo Y, Ito H, Momozawa Y, Ashikawa K, Kamatani Y, Honda T, Sakamoto H, Kunitoh H, Tsuta K, Watanabe SI, Nokihara H, Miyagi Y, Nakayama H, Matsumoto S, Tsuboi M, Goto K, Yin Z, Shi J, Takahashi A, Goto A, Minamiya Y, Shimizu K, Tanaka K, Wu T, Wei F, Wong JY, Matsuda F, Su J, Kim YH, Oh IJ, Song F, Lee VH, Su WC, Chen YM, Chang GC, Chen KY, Huang MS, Yang PC, Lin HC, Xiang YB, Seow A, Park JY, Kweon SS, Chen CJ, Li H, Gao YT, Wu C, Qian B, Lu D, Liu J, Jeon HS, Hsiao CF, Sung JS, Tsai YH, Jung YJ, Guo H, Hu Z, Wang WC, Chung CC, Lawrence C, Burdett L, Yeager M, Jacobs KB, Hutchinson A, Berndt SI, He X, Wu W, Wang J, Li Y, Choi JE, Park KH, Sung SW, Liu L, Kang CH, Hu L, Chen CH, Yang TY, Xu J, Guan P, Tan W, Wang CL, Sihoe AD, Chen Y, Choi YY, Hung JY, Kim JS, Yoon HI, Cai Q, Lin CC, Park IK, Xu P, Dong J, Kim C, He Q, Perng RP, Chen CY, Vermeulen R, Wu J, Lim WY, Chen KC, Chan JK, Chu M, Li YJ, Li J, Chen H, Yu CJ, Jin L, Lo YL, Chen YH, Fraumeni JF Jr, Liu J, Yamaji T, Yang Y, Hicks B, Wyatt K, Li SA, Dai J, Ma H, Jin G, Song B, Wang Z, Cheng S, Li X, Ren Y, Cui P, Iwasaki M, Shimazu T, Tsugane S, Zhu J, Jiang G, Fei K, Wu G, Chien LH, Chen HL, Su YC, Tsai FY, Chen YS, Yu J, Stevens VL, Laird-Offringa IA, Marconett CN, Lin D, Chen K, Wu YL, Landi MT, Shen H, Rothman N, Kohno T, Chanock SJ, Lan Q. Association between GWAS-identified lung adenocarcinoma susceptibility loci and EGFR mutations in never-smoking Asian women, and comparison with findings from Western populations. Hum Mol Genet. 2017 Jan 15;26(2):454-465. PMID: 28025329. Role: Co-First author

116. Hoffmann TJ, Passarelli MN, Graff RE, Emami NC, Sakoda LC, Jorgenson E, Habel LA, Shan J, Ranatunga DK, Quesenberry CP, Chao CR, Ghai NR, Aaronson D, Presti J, Nordström T, **Wang Z**, Berndt SI, Chanock SJ, Mosley JD, Klein RJ, Middha M, Lilja H, Melander O, Kvale MN, Kwok PY, Schaefer C, Risch N, Van Den Eeden SK, Witte JS. Genome-wide association study of prostate-specific antigen levels identifies novel loci independent of prostate cancer. Nat Commun. 2017 Jan 31;8:14248. PMID: 28139693.

117. Law PJ, Berndt SI, Speedy HE, Camp NJ, Sava GP, Skibola CF, Holroyd A, Joseph V, Sunter NJ, Nieters A, Bea S, Monnereau A, Martin-Garcia D, Goldin LR, Clot G, Teras LR, Quintela I, Birmann BM, Jayne S, Cozen W, Majid A, Smedby KE, Lan Q, Dearden C, Brooks-Wilson AR, Hall AG, Purdue MP, Mainou-Fowler T, Vajdic CM, Jackson GH, Cocco P, Marr H, Zhang Y, Zheng T, Giles GG, Lawrence C, Call TG, Liebow M, Melbye M, Glimelius B, Mansouri L, Glenn M, Curtin K, Diver WR, Link BK, Conde L, Bracci PM, Holly EA, Jackson RD, Tinker LF, Benavente Y, Boffetta P, Brennan P, Maynadie M, McKay J, Albanes D, Weinstein S, **Wang Z**, Caporaso NE, Morton LM, Severson RK, Riboli E, Vineis P, Vermeulen RC, Southey MC, Milne RL, Clavel J, Topka S, Spinelli JJ, Kraft P, Ennas MG, Summerfield G, Ferri GM, Harris RJ, Miligi L, Pettitt AR, North KE, Allsup DJ, Fraumeni JF, Bailey JR, Offit K, Pratt G, Hjalgrim H, Pepper C, Chanock SJ, Fegan C, Rosenquist R, de Sanjose S, Carracedo A, Dyer MJ, Catovsky D, Campo E, Cerhan JR, Allan JM, Rothman N, Houlston R, Slager S. Genome-wide association analysis implicates dysregulation of immunity genes in chronic lymphocytic leukaemia. Nat Commun. 2017 Feb 6;8:14175. PMID: 28165464.

118. Liu W, Tian T, Liu L, Du J, Gu Y, Qin N, Yan C, **Wang Z**, Dai J, Fan Z. A functional SNP rs1892901 in FOSL1 is associated with gastric cancer in Chinese population. Sci Rep. 2017 Feb 7;7:41737. PMID: 28169308.

119. Chang IS, Jiang SS, Yang JC, Su WC, Chien LH, Hsiao CF, Lee JH, Chen CY, Chen CH, Chang GC, **Wang Z**, Lo FY, Chen KY, Wang WC, Chen YM, Huang MS, Tsai YH, Su YC, Hsieh WS, Shih WC, Shieh SH, Yang TY, Lan Q, Rothman N, Chen CJ, Chanock SJ, Yang PC, Hsiung CA. Genetic modifiers of progression-free survival in never-smoking lung adenocarcinoma patients treated with first-line tyrosine kinase inhibitors. Am J Respir Crit Care Med. 2017 Mar 1;195(5):663-673. PMID: 27669169.

120. **Wang Z**, Dai J, Hu N, Miao X, Abnet CC, Yang M, Freedman ND, Chen J, Burdette L, Zhu X, Chung CC, Ren C, Dawsey SM, Wang M, Ding T, Du J, Gao YT, Zhong R, Giffen C, Pan W, Koh WP, Dai N, Liao LM, Yan C, Qiao YL, Jiang Y, Shu XO, Chen J, Wang C, Ma H, Su H, Zhang Z, Wang L, Wu C, Xiang YB, Hu Z, Yuan JM, Xie L, Zheng W, Lin D, Chanock SJ, Shi Y, Goldstein AM, Jin G, Taylor PR, Shen H. Identification of new susceptibility loci for gastric non-cardia adenocarcinoma: Pooled results from two Chinese genome-wide association studies. Gut. 2017 Apr;66(4):581-587. PMID: 26701879. Role: First author

121. Mhatre S, **Wang Z**, Nagrani R, Badwe R, Chiplunkar S, Mittal B, Yadav S, Zhang H, Chung CC, Patil P, Chanock S, Dikshit R, Chatterjee N, Rajaraman P. Common genetic variation and risk of gallbladder cancer in India: A case-control genome-wide association study. Lancet Oncol. 2017 Apr;18(4):535-544. PMID: 28274756. Role: Co-First author

122. Melin BS, Barnholtz-Sloan JS, Wrensch MR, Johansen C, Il'yasova D, Kinnersley B, Ostrom QT, Labreche K, Chen Y, Armstrong G, Liu Y, Eckel-Passow JE, Decker PA, Labussière M, Idbaih A, Hoang-Xuan K, Di Stefano AL, Mokhtari K, Delattre JY, Broderick P, Galan P, Gousias K, Schramm J, Schoemaker MJ, Fleming SJ, Herms S, Heilmann S, Nöthen MM, Wichmann HE, Schreiber S, Swerdlow A, Lathrop M, Simon M, Sanson M, Andersson U, Rajaraman P, Chanock S, Linet M, **Wang Z**, Yeager M; GliomaScan Consortium, Wiencke JK, Hansen H, McCoy L, Rice T, Kosel ML, Sicotte H, Amos CI, Bernstein JL, Davis F,

Lachance D, Lau C, Merrell RT, Shildkraut J, Ali-Osman F, Sadetzki S, Scheurer M, Shete S, Lai RK, Claus EB, Olson SH, Jenkins RB, Houlston RS, Bondy ML. Genome-wide association study of glioma subtypes identifies specific differences in genetic susceptibility to glioblastoma and non-glioblastoma tumors. Nat Genet. 2017 May;49(5):789-794. PMID: 28346443.

123. Fang J, Jia J, Makowski M, Xu M, **Wang Z**, Zhang T, Hoskins JW, Choi J, Han Y, Zhang M, Thomas J, Kovacs M, Collins I, Dzyadyk M, Thompson A, O'Neill M, Das S, Lan Q, Koster R; PanScan Consortium; TRICL Consortium; GenoMEL Consortium, Stolzenberg-Solomon RS, Kraft P, Wolpin BM, Jansen PWTC, Olson S, McGlynn KA, Kanetsky PA, Chatterjee N, Barrett JH, Dunning AM, Taylor JC, Newton-Bishop JA, Bishop DT, Andresson T, Petersen GM, Amos CI, Iles MM, Nathanson KL, Landi MT, Vermeulen M, Brown KM, Amundadottir LT. Functional characterization of a multi-cancer risk locus on chr5p15.33 reveals regulation of TERT by ZNF148. Nat Commun. 2017 May 2;8:15034. PMID: 28447668. *Publisher correction: Nat Commun. 2018 Mar 5;9:16159. PMID: 29596408.*

124. Scelo G, Purdue MP, Brown KM, Johansson M, **Wang Z**, Eckel-Passow JE, Ye Y, Hofmann JN, Choi J, Foll M, Gaborieau V, Machiela MJ, Colli LM, Li P, Sampson JN, Abedi-Ardekani B, Besse C, Blanche H, Boland A, Burdette L, Chabrier A, Durand G, Le Calvez-Kelm F, Prokhortchouk E, Robinot N, Skryabin KG, Wozniak MB, Yeager M, Basta-Jovanovic G, Dzamic Z, Foretova L, Holcatova I, Janout V, Mates D, Mukeriya A, Rascu S, Zaridze D, Bencko V, Cybulski C, Fabianova E, Jinga V, Lissowska J, Lubinski J, Navratilova M, Rudnai P, Szeszenia-Dabrowska N, Benhamou S, Cancel-Tassin G, Cussenot O, Baglietto L, Boeing H, Khaw KT, Weiderpass E, Ljungberg B, Sitaram RT, Bruinsma F, Jordan SJ, Severi G, Winship I, Hveem K, Vatten LJ, Fletcher T, Koppova K, Larsson SC, Wolk A, Banks RE, Selby PJ, Easton DF, Pharoah P, Andreotti G, Freeman LEB, Koutros S, Albanes D, Männistö S, Weinstein S, Clark PE, Edwards TL, Lipworth L, Gapstur SM, Stevens VL, Carol H, Freedman ML, Pomerantz MM, Cho E, Kraft P, Preston MA, Wilson KM, Michael Gaziano J, Sesso HD, Black A, Freedman ND, Huang WY, Anema JG, Kahnoski RJ, Lane BR, Noyes SL, Petillo D, Teh BT, Peters U, White E, Anderson GL, Johnson L, Luo J, Buring J, Lee IM, Chow WH, Moore LE, Wood C, Eisen T, Henrion M, Larkin J, Barman P, Leibovich BC, Choueiri TK, Mark Lathrop G, Rothman N, Deleuze JF, McKay JD, Parker AS, Wu X, Houlston RS, Brennan P, Chanock SJ. Genome-wide association study identifies multiple risk loci for renal cell carcinoma. Nat Commun. 2017 Jun 9;8:15724. PMID: 28598434. Role: Co-First author

125. **Wang Z**, McGlynn KA, Rajpert-De Meyts E, Bishop DT, Chung CC, Dalgaard MD, Greene MH, Gupta R, Grotmol T, Haugen TB, Karlsson R, Litchfield K, Mitra N, Nielsen K, Pyle LC, Schwartz SM, Thorsson V, Vardhanabhuti S, Wiklund F, Turnbull C, Chanock SJ, Kanetsky PA, Nathanson KL; Testicular Cancer Consortium. Meta-analysis of five genome-wide association studies identifies multiple new loci associated with testicular germ cell tumor. Nat Genet. 2017 Jul;49(7):1141-1147. PMID: 28604732. Role: First author

126. Song X, Li WQ, Hu N, Zhao XK, **Wang Z**, Hyland PL, Jiang T, Kong GQ, Su H, Wang C, Wang L, Sun L, Fan ZM, Meng H, Zhang TJ, Ji LF, Hu SJ, Han WL, Wu MJ, Zheng PY, Lv S, Li XM, Zhou FY, Burdett L, Ding T, Qiao YL, Fan JH, Han XY, Giffen C, Tucker MA, Dawsey SM, Freedman ND, Chanock SJ, Abnet CC, Taylor PR, Wang LD, Goldstein AM. GWAS follow-up study of esophageal squamous cell carcinoma identifies potential genetic loci associated with family history of upper gastrointestinal cancer. Sci Rep. 2017 Jul 5;7(1):4642. PMID: 28680059.

127. Liu Y, Easton J, Shao Y, Maciaszek J, **Wang Z**, Wilkinson MR, McCastlain K, Edmonson M, Pounds SB, Shi L, Zhou X, Ma X, Sioson E, Li Y, Rusch M, Gupta P, Pei D, Cheng C, Smith MA, Auvil JG, Gerhard DS, Relling MV, Winick NJ, Carroll AJ, Heerema NA, Raetz E, Devidas M, Willman CL, Harvey RC, Carroll WL, Dunsmore KP, Winter SS, Wood BL, Sorrentino BP, Downing JR, Loh ML, Hunger SP, Zhang J, Mullighan CG. The genomic landscape of pediatric

and young adult T-lineage Acute Lymphoblastic leukemia. Nat Genet. 2017 Aug;49(8):1211-1218. PMID: 28671688.

128. Conti DV, Wang K, Sheng X, Bensen JT, Hazelett DJ, Cook MB, Ingles SA, Kittles RA, Strom SS, Rybicki BA, Nemesure B, Isaacs WB, Stanford JL, Zheng W, Sanderson M, John EM, Park JY, Xu J, Stevens VL, Berndt SI, Huff CD, **Wang Z**, Yeboah ED, Tettey Y, Biritwum RB, Adjei AA, Tay E, Truelove A, Niwa S, Sellers TA, Yamoah K, Murphy AB, Crawford DC, Gapstur SM, Bush WS, Aldrich MC, Cussenot O, Petrovics G, Cullen J, Neslund-Dudas C, Stern MC, Jarai ZK, Govindasami K, Chokkalingam AP, Hsing AW, Goodman PJ, Hoffmann T, Drake BF, Hu JJ, Clark PE, Van Den Eeden SK, Blanchet P, Fowke JH, Casey G, Hennis AJM, Han Y, Lubwama A, Thompson IM Jr, Leach R, Easton DF, Schumacher F, Van den Berg DJ, Gundell SM, Stram A, Wan P, Xia L, Pooler LC, Mohler JL, Fontham ETH, Smith GJ, Taylor JA, Srivastava S, Eeles RA, Carpten J, Kibel AS, Multigner L, Parent ME, Menegaux F, Cancel-Tassin G, Klein EA, Brureau L, Stram DO, Watya S, Chanock SJ, Witte JS, Blot WJ, Henderson BE, Haiman CA; PRACTICAL/ELLIPSE Consortium. Two novel susceptibility loci for prostate cancer in men of African ancestry. J Natl Cancer Inst. 2017 Aug 1;109(8). PMID: 29117387.

129. Shu X, Purdue MP, Ye Y, Tu H, Wood CG, Tannir NM, **Wang Z**, Albanes D, Gapstur SM, Stevens VL, Rothman N, Chanock SJ, Wu X. Potential susceptibility loci identified for renal cell carcinoma by targeting obesity-related genes. Cancer Epidemiol Biomarkers Prev. 2017 Sep;26(9):1436-1442. PMID: 28626070.

130. Machiela MJ, Hofmann JN, Carreras-Torres R, Brown KM, Johansson M, **Wang Z**, Foll M, Li P, Rothman N, Savage SA, Gaborieau V, McKay JD, Ye Y, Henrion M, Bruinsma F, Jordan S, Severi G, Hveem K, Vatten LJ, Fletcher T, Koppova K, Larsson SC, Wolk A, Banks RE, Selby PJ, Easton DF, Pharoah P, Andreotti G, Freeman LEB, Koutros S, Albanes D, Mannisto S, Weinstein S, Clark PE, Edwards TE, Lipworth L, Gapstur SM, Stevens VL, Carol H, Freedman ML, Pomerantz MM, Cho E, Kraft P, Preston MA, Wilson KM, Gaziano JM, Sesso HS, Black A, Freedman ND, Huang WY, Anema JG, Kahnoski RJ, Lane BR, Noyes SL, Petillo D, Colli LM, Sampson JN, Besse C, Blanche H, Boland A, Burdette L, Prokhortchouk E, Skryabin KG, Yeager M, Mijuskovic M, Ognjanovic M, Foretova L, Holcatova I, Janout V, Mates D, Mukeriya A, Rascu S, Zaridze D, Bencko V, Cybulski C, Fabianova E, Jinga V, Lissowska J, Lubinski J, Navratilova M, Rudnai P, Szeszenia-Dabrowska N, Benhamou S, Cancel-Tassin G, Cussenot O, Bueno-de-Mesquita HB, Canzian F, Duell EJ, Ljungberg B, Sitaram RT, Peters U, White E, Anderson GL, Johnson L, Luo J, Buring J, Lee IM, Chow WH, Moore LE, Wood C, Eisen T, Larkin J, Choueiri TK, Lathrop GM, Teh BT, Deleuze JF, Wu X, Houlston RS, Brennan P, Chanock SJ, Scelo G, Purdue MP. Genetic variants related to longer telomere length are associated with increased risk of renal cell carcinoma. Eur Urol. 2017 Nov;72(5):747-754. PMID: 28797570. *Corrigendum in Eur Urol. 2018 Sep;74(3):e85-e86. PMID: 29853305.*

131. Morton LM, Sampson JN, Armstrong GT, Chen TH, Hudson MM, Karlins E, Dagnall CL, Li SA, Wilson CL, Srivastava DK, Liu W, Kang G, Oeffinger KC, Henderson TO, Moskowitz CS, Gibson TM, Merino DM, Wong JR, Hammond S, Neglia JP, Turcotte LM, Miller J, Bowen L, Wheeler WA, Leisenring WM, Whitton JA, Burdette L, Chung C, Hicks BD, Jones K, Machiela MJ, Vogt A, **Wang Z**, Yeager M, Neale G, Lear M, Strong LC, Yasui Y, Stovall M, Weathers RE, Smith SA, Howell R, Davies SM, Radloff GA, Onel K, Berrington de González A, Inskip PD, Rajaraman P, Fraumeni JF Jr, Bhatia S, Chanock SJ, Tucker MA, Robison LL. Genome-wide association study to identify susceptibility loci that modify radiation-related risk for breast cancer after childhood cancer. J Natl Cancer Inst. 2017 Nov 1;109(11). PMID: 29059430.

132. Michailidou K, Lindström S, Dennis J, Beesley J, Hui S, Kar S, Lemaçon A, Soucy P, Glubb D, Rostamianfar A, Bolla MK, Wang Q, Tyrer J, Dicks E, Lee A, **Wang Z**, Allen J, Keeman R,

Eilber U, French JD, Qing Chen X, Fachal L, McCue K, McCart Reed AE, Ghoussaini M, Carroll JS, Jiang X, Finucane H, Adams M, Adank MA, Ahsan H, Aittomäki K, Anton-Culver H, Antonenkova NN, Arndt V, Aronson KJ, Arun B, Auer PL, Bacot F, Barrdahl M, Baynes C, Beckmann MW, Behrens S, Benitez J, Bermisheva M, Bernstein L, Blomqvist C, Bogdanova NV, Bojesen SE, Bonanni B, Børresen-Dale AL, Brand JS, Brauch H, Brennan P, Brenner H, Brinton L, Broberg P, Brock IW, Broeks A, Brooks-Wilson A, Brucker SY, Brüning T, Burwinkel B, Butterbach K, Cai Q, Cai H, Caldés T, Canzian F, Carracedo A, Carter BD, Castelao JE, Chan TL, David Cheng TY, Seng Chia K, Choi JY, Christiansen H, Clarke CL, Collée M, Conroy DM, Cordina-Duverger E, Cornelissen S, Cox DG, Cox A, Cross SS, Cunningham JM, Czene K, Daly MB, Devilee P, Doheny KF, Dörk T, Dos-Santos-Silva I, Dumont M, Durcan L, Dwek M, Eccles DM, Ekici AB, Eliassen AH, Ellberg C, Elvira M, Engel C, Eriksson M, Fasching PA, Figueroa J, Flesch-Janys D, Fletcher O, Flyger H, Fritschi L, Gaborieau V, Gabrielson M, Gago-Dominguez M, Gao YT, Gapstur SM, García-Sáenz JA, Gaudet MM, Georgoulias V, Giles GG, Glendon G, Goldberg MS, Goldgar DE, González-Neira A, Grenaker Alnæs GI, Grip M, Gronwald J, Grundy A, Guénel P, Haeberle L, Hahnen E, Haiman CA, Håkansson N, Hamann U, Hamel N, Hankinson S, Harrington P, Hart SN, Hartikainen JM, Hartman M, Hein A, Heyworth J, Hicks B, Hillemanns P, Ho DN, Hollestelle A, Hooning MJ, Hoover RN, Hopper JL, Hou MF, Hsiung CN, Huang G, Humphreys K, Ishiguro J, Ito H, Iwasaki M, Iwata H, Jakubowska A, Janni W, John EM, Johnson N, Jones K, Jones M, Jukkola-Vuorinen A, Kaaks R, Kabisch M, Kaczmarek K, Kang D, Kasuga Y, Kerin MJ, Khan S, Khusnutdinova E, Kiiski JI, Kim SW, Knight JA, Kosma VM, Kristensen VN, Krüger U, Kwong A, Lambrechts D, Le Marchand L, Lee E, Lee MH, Lee JW, Neng Lee C, Lejbkowicz F, Li J, Lilyquist J, Lindblom A, Lissowska J, Lo WY, Loibl S, Long J, Lophatananon A, Lubinski J, Luccarini C, Lux MP, Ma ESK, MacInnis RJ, Maishman T, Makalic E, Malone KE, Kostovska IM, Mannermaa A, Manoukian S, Manson JE, Margolin S, Mariapun S, Martinez ME, Matsuo K, Mavroudis D, McKay J, McLean C, Meijers-Heijboer H, Meindl A, Menéndez P, Menon U, Meyer J, Miao H, Miller N, Taib NAM, Muir K, Mulligan AM, Mulot C, Neuhausen SL, Nevanlinna H, Neven P, Nielsen SF, Noh DY, Nordestgaard BG, Norman A, Olopade OI, Olson JE, Olsson H, Olswold C, Orr N, Pankratz VS, Park SK, Park-Simon TW, Lloyd R, Perez JIA, Peterlongo P, Peto J, Phillips KA, Pinchev M, Plaseska-Karanfilska D, Prentice R, Presneau N, Prokofyeva D, Pugh E, Pylkäs K, Rack B, Radice P, Rahman N, Rennert G, Rennert HS, Rhenius V, Romero A, Romm J, Ruddy KJ, Rüdiger T, Rudolph A, Ruebner M, Rutgers EJT, Saloustros E, Sandler DP, Sangrajrang S, Sawyer EJ, Schmidt DF, Schmutzler RK, Schneeweiss A, Schoemaker MJ, Schumacher F, Schürmann P, Scott RJ, Scott C, Seal S, Seynaeve C, Shah M, Sharma P, Shen CY, Sheng G, Sherman ME, Shrubsole MJ, Shu XO, Smeets A, Sohn C, Southey MC, Spinelli JJ, Stegmaier C, Stewart-Brown S, Stone J, Stram DO, Surowy H, Swerdlow A, Tamimi R, Taylor JA, Tengström M, Teo SH, Beth Terry M, Tessier DC, Thanasitthichai S, Thöne K, Tollenaar RAEM, Tomlinson I, Tong L, Torres D, Truong T, Tseng CC, Tsugane S, Ulmer HU, Ursin G, Untch M, Vachon C, van Asperen CJ, Van Den Berg D, van den Ouweland AMW, van der Kolk L, van der Luijt RB, Vincent D, Vollenweider J, Waisfisz Q, Wang-Gohrke S, Weinberg CR, Wendt C, Whittemore AS, Wildiers H, Willett W, Winqvist R, Wolk A, Wu AH, Xia L, Yamaji T, Yang XR, Har Yip C, Yoo KY, Yu JC, Zheng W, Zheng Y, Zhu B, Ziogas A, Ziv E, Lakhani SR, Antoniou AC, Droit A, Andrulis IL, Amos CI, Couch FJ, Pharoah PDP, Chang-Claude J, Hall P, Hunter DJ, Milne RL, García-Closas M, Schmidt MK, Chanock SJ, Dunning AM, Edwards SL, Bader GD, Chenevix-Trench G, Simard J, Kraft P, Easton DF. Association analysis identifies 65 new breast cancer risk loci. Nature. 2017 Nov 2;551(7678):92-94. PMID: 29059683.

133. Bernatsky S, Velásquez García HA, Spinelli JJ, Gaffney P, Smedby KE, Ramsey-Goldman R, Wang SS, Adami HO, Albanes D, Angelucci E, Ansell SM, Asmann YW, Becker N, Benavente Y, Berndt SI, Bertrand KA, Birmann BM, Boeing H, Boffetta P, Bracci PM, Brennan P, Brooks-Wilson AR, Cerhan JR, Chanock SJ, Clavel J, Conde L, Cotenbader KH, Cox DG, Cozen W, Crouch S, De Roos AJ, de Sanjose S, Di Lollo S, Diver WR, Dogan A, Foretova L, Ghesquières H, Giles GG, Glimelius B, Habermann TM, Haioun C, Hartge P, Hjalgrim H,

Holford TR, Holly EA, Jackson RD, Kaaks R, Kane E, Kelly RS, Klein RJ, Kraft P, Kricker A, Lan Q, Lawrence C, Liebow M, Lightfoot T, Link BK, Maynadie M, McKay J, Melbye M, Molina TJ, Monnereau A, Morton LM, Nieters A, North KE, Novak AJ, Offit K, Purdue MP, Rais M, Riby J, Roman E, Rothman N, Salles G, Severi G, Severson RK, Skibola CF, Slager SL, Smith A, Smith MT, Southey MC, Staines A, Teras LR, Thompson CA, Tilly H, Tinker LF, Tjonneland A, Turner J, Vajdic CM, Vermeulen RCH, Vijai J, Vineis P, Virtamo J, **Wang Z**, Weinstein S, Witzig TE, Zelenetz A, Zeleniuch-Jacquotte A, Zhang Y, Zheng T, Zucca M, Clarke AE. Lupus-related single nucleotide polymorphisms and risk of diffuse large B-cell lymphoma. Lupus Sci Med. 2017 Nov 12;4(1):e000187. PMID: 29214033.

134. Milne RL, Kuchenbaecker KB, Michailidou K, Beesley J, Kar S, Lindström S, Hui S, Lemaçon A, Soucy P, Dennis J, Jiang X, Rostamianfar A, Finucane H, Bolla MK, McGuffog L, Wang Q, Aalfs CM, Adams M, Adlard J, Agata S, Ahmed S, Ahsan H, Aittomäki K, Al-Ejeh F, Allen J, Ambrosone CB, Amos CI, Andrulis IL, Anton-Culver H, Antonenkova NN, Arndt V, Arnold N, Aronson KJ, Auber B, Auer PL, Ausems MGEM, Azzollini J, Bacot F, Balmaña J, Barile M, Barjhoux L, Barkardottir RB, Barrdahl M, Barnes D, Barrowdale D, Baynes C, Beckmann MW, Benitez J, Bermisheva M, Bernstein L, Bignon YJ, Blazer KR, Blok MJ, Blomqvist C, Blot W, Bobolis K, Boeckx B, Bogdanova NV, Bojesen A, Bojesen SE, Bonanni B, Børresen-Dale AL, Bozsik A, Bradbury AR, Brand JS, Brauch H, Brenner H, Bressac-de Paillerets B, Brewer C, Brinton L, Broberg P, Brooks-Wilson A, Brunet J, Brüning T, Burwinkel B, Buys SS, Byun J, Cai Q, Caldés T, Caligo MA, Campbell I, Canzian F, Caron O, Carracedo A, Carter BD, Castelao JE, Castera L, Caux-Moncoutier V, Chan SB, Chang-Claude J, Chanock SJ, Chen X, Cheng TD, Chiquette J, Christiansen H, Claes KBM, Clarke CL, Conner T, Conroy DM, Cook J, Cordina-Duverger E, Cornelissen S, Coupier I, Cox A, Cox DG, Cross SS, Cuk K, Cunningham JM, Czene K, Daly MB, Damiola F, Darabi H, Davidson R, De Leeneer K, Devilee P, Dicks E, Diez O, Ding YC, Ditsch N, Doheny KF, Domchek SM, Dorfling CM, Dörk T, Dos-Santos-Silva I, Dubois S, Dugué PA, Dumont M, Dunning AM, Durcan L, Dwek M, Dworniczak B, Eccles D, Eeles R, Ehrencrona H, Eilber U, Ejlertsen B, Ekici AB, Eliassen AH, Engel C, Eriksson M, Fachal L, Faivre L, Fasching PA, Faust U, Figueroa J, Flesch-Janys D, Fletcher O, Flyger H, Foulkes WD, Friedman E, Fritschi L, Frost D, Gabrielson M, Gaddam P, Gammon MD, Ganz PA, Gapstur SM, Garber J, Garcia-Barberan V, García-Sáenz JA, Gaudet MM, Gauthier-Villars M, Gehrig A, Georgoulias V, Gerdes AM, Giles GG, Glendon G, Godwin AK, Goldberg MS, Goldgar DE, González-Neira A, Goodfellow P, Greene MH, Alnæs GIG, Grip M, Gronwald J, Grundy A, Gschwantler-Kaulich D, Guénel P, Guo Q, Haeberle L, Hahnen E, Haiman CA, Håkansson N, Hallberg E, Hamann U, Hamel N, Hankinson S, Hansen TVO, Harrington P, Hart SN, Hartikainen JM, Healey CS, Hein A, Helbig S, Henderson A, Heyworth J, Hicks B, Hillemanns P, Hodgson S, Hogervorst FB, Hollestelle A, Hooning MJ, Hoover B, Hopper JL, Hu C, Huang G, Hulick PJ, Humphreys K, Hunter DJ, Imyanitov EN, Isaacs C, Iwasaki M, Izatt L, Jakubowska A, James P, Janavicius R, Janni W, Jensen UB, John EM, Johnson N, Jones K, Jones M, Jukkola-Vuorinen A, Kaaks R, Kabisch M, Kaczmarek K, Kang D, Kast K, Keeman R, Kerin MJ, Kets CM, Keupers M, Khan S, Khusnutdinova E, Kiiski JI, Kim SW, Knight JA, Konstantopoulou I, Kosma VM, Kristensen VN, Kruse TA, Kwong A, Lænkholm AV, Laitman Y, Lalloo F, Lambrechts D, Landsman K, Lasset C, Lazaro C, Le Marchand L, Lecarpentier J, Lee A, Lee E, Lee JW, Lee MH, Lejbkowicz F, Lesueur F, Li J, Lilyquist J, Lincoln A, Lindblom A, Lissowska J, Lo WY, Loibl S, Long J, Loud JT, Lubinski J, Luccarini C, Lush M, MacInnis RJ, Maishman T, Makalic E, Kostovska IM, Malone KE, Manoukian S, Manson JE, Margolin S, Martens JWM, Martinez ME, Matsuo K, Mavroudis D, Mazoyer S, McLean C, Meijers-Heijboer H, Menéndez P, Meyer J, Miao H, Miller A, Miller N, Mitchell G, Montagna M, Muir K, Mulligan AM, Mulot C, Nadesan S, Nathanson KL, Neuhausen SL, Nevanlinna H, Nevelsteen I, Niederacher D, Nielsen SF, Nordestgaard BG, Norman A, Nussbaum RL, Olah E, Olopade OI, Olson JE, Olswold C, Ong KR, Oosterwijk JC, Orr N, Osorio A, Pankratz VS, Papi L, Park-Simon TW, Paulsson-Karlsson Y, Lloyd R, Pedersen IS, Peissel B, Peixoto A, Perez JIA, Peterlongo P, Peto J, Pfeiler G, Phelan CM, Pinchev M, Plaseska-Karanfilska D, Poppe B, Porteous ME, Prentice R, Presneau N,

Prokofieva D, Pugh E, Pujana MA, Pylkäs K, Rack B, Radice P, Rahman N, Rantala J, Rappaport-Fuerhauser C, Rennert G, Rennert HS, Rhenius V, Rhiem K, Richardson A, Rodriguez GC, Romero A, Romm J, Rookus MA, Rudolph A, Ruediger T, Saloustros E, Sanders J, Sandler DP, Sangrajrang S, Sawyer EJ, Schmidt DF, Schoemaker MJ, Schumacher F, Schürmann P, Schwentner L, Scott C, Scott RJ, Seal S, Senter L, Seynaeve C, Shah M, Sharma P, Shen CY, Sheng X, Shimelis H, Shrubsole MJ, Shu XO, Side LE, Singer CF, Sohn C, Southey MC, Spinelli JJ, Spurdle AB, Stegmaier C, Stoppa-Lyonnet D, Sukiennicki G, Surowy H, Sutter C, Swerdlow A, Szabo CI, Tamimi RM, Tan YY, Taylor JA, Tejada MI, Tengström M, Teo SH, Terry MB, Tessier DC, Teulé A, Thöne K, Thull DL, Tibiletti MG, Tihomirova L, Tischkowitz M, Toland AE, Tollenaar RAEM, Tomlinson I, Tong L, Torres D, Tranchant M, Truong T, Tucker K, Tung N, Tyrer J, Ulmer HU, Vachon C, van Asperen CJ, Van Den Berg D, van den Ouweland AMW, van Rensburg EJ, Varesco L, Varon-Mateeva R, Vega A, Viel A, Vijai J, Vincent D, Vollenweider J, Walker L, **Wang Z**, Wang-Gohrke S, Wappenschmidt B, Weinberg CR, Weitzel JN, Wendt C, Wesseling J, Whittemore AS, Wijnen JT, Willett W, Winqvist R, Wolk A, Wu AH, Xia L, Yang XR, Yannoukakos D, Zaffaroni D, Zheng W, Zhu B, Ziogas A, Ziv E, Zorn KK, Gago-Dominguez M, Mannermaa A, Olsson H, Teixeira MR, Stone J, Offit K, Ottini L, Park SK, Thomassen M, Hall P, Meindl A, Schmutzler RK, Droit A, Bader GD, Pharoah PDP, Couch FJ, Easton DF, Kraft P, Chenevix-Trench G, García-Closas M, Schmidt MK, Antoniou AC, Simard J. Identification of ten variants associated with risk of estrogen-receptor-negative breast cancer. Nat Genet. 2017 Dec;49(12):1767-1778. PMID: 29058716.

135. Klein AP, Wolpin BM, Risch HA, Stolzenberg-Solomon RZ, Mocci E, Zhang M, Canzian F, Childs EJ, Hoskins JW, Jermusyk A, Zhong J, Chen F, Albanes D, Andreotti G, Arslan AA, Babic A, Bamlet WR, Beane-Freeman L, Berndt SI, Blackford A, Borges M, Borgida A, Bracci PM, Brais L, Brennan P, Brenner H, Bueno-de-Mesquita B, Buring J, Campa D, Capurso G, Cavestro GM, Chaffee KG, Chung CC, Cleary S, Cotterchio M, Dijk F, Duell EJ, Foretova L, Fuchs C, Funel N, Gallinger S, M Gaziano JM, Gazouli M, Giles GG, Giovannucci E, Goggins M, Goodman GE, Goodman PJ, Hackert T, Haiman C, Hartge P, Hasan M, Hegyi P, Helzlsouer KJ, Herman J, Holcatova I, Holly EA, Hoover R, Hung RJ, Jacobs EJ, Jamroziak K, Janout V, Kaaks R, Khaw KT, Klein EA, Kogevinas M, Kooperberg C, Kulke MH, Kupcinskas J, Kurtz RJ, Laheru D, Landi S, Lawlor RT, Lee IM, LeMarchand L, Lu L, Malats N, Mambrini A, Mannisto S, Milne RL, Mohelníková-Duchoňová B, Neale RE, Neoptolemos JP, Oberg AL, Olson SH, Orlow I, Pasquali C, Patel AV, Peters U, Pezzilli R, Porta M, Real FX, Rothman N, Scelo G, Sesso HD, Severi G, Shu XO, Silverman D, Smith JP, Soucek P, Sund M, Talar-Wojnarowska R, Tavano F, Thornquist MD, Tobias GS, Van Den Eeden SK, Vashist Y, Visvanathan K, Vodicka P, Wactawski-Wende J, **Wang Z**, Wentzensen N, White E, Yu H, Yu K, Zeleniuch-Jacquotte A, Zheng W, Kraft P, Li D, Chanock S, Obazee O, Petersen GM, Amundadottir LT. Genome-wide meta-analysis identifies five new susceptibility loci for pancreatic cancer. Nat Commun. 2018 Feb 8;9(1):556. PMID: 29422604.

136. Ma X, Liu Y, Liu Y, Alexandrov LB, Edmonson MN, Gawad C, Zhou X, Li Y, Rusch MC, Easton J, Huether R, Gonzalez-Pena V, Wilkinson MR, Hermida LC, Davis S, Sioson E, Pounds S, Cao X, Ries RE, **Wang Z**, Chen X, Dong L, Diskin SJ, Smith MA, Guidry Auvil JM, Meltzer PS, Lau CC, Perlman EJ, Maris JM, Meshinchi S, Hunger SP, Gerhard DS, Zhang J. Pan-cancer genome and transcriptome analyses of 1,699 paediatric leukaemias and solid tumours. Nature. 2018 Mar 15;555(7696):371-376. PMID: 29489755.

137. Wang Y, Gray DR, Robbins AK, Crowgey EL, Chanock SJ, Greene MH, McGlynn KA, Nathanson K, Turnbull C, **Wang Z**, Devoto M, Barthold JS; Testicular Cancer Consortium. Subphenotype meta-analysis of testicular cancer genome-wide association study data suggests a role for RBFOX family genes in cryptorchidism susceptibility. Hum Reprod. 2018 May 1;967-977. PMID: 29618007.

138. Ostrom QT, Kinnersley B, Wrensch MR, Eckel-Passow JE, Armstrong G, Rice T, Chen Y, Wiencke JK, McCoy LS, Hansen HM, Amos CI, Bernstein JL, Claus EB, Il'yasova D, Johansen C, Lachance DH, Lai RK, Merrell RT, Olson SH, Sadetzki S, Schildkraut JM, Shete S, Rubin JB, Lathia JD, Berens ME, Andersson U, Rajaraman P, Chanock SJ, Linet MS, **Wang Z**, Yeager M; GliomaScan Consortium, Houlston RS, Jenkins RB, Melin B, Bondy ML, Barnholtz-Sloan JS. Sex-specific glioma genome-wide association study identifies new risk locus at 3p21.31 in females, and finds sex-differences in risk at 8q24.21. Sci Rep. 2018 May 9;8(1):7352. PMID: 29743610.

139. **Wang Z**, Wilson CL, John Easton, Thrasher A, Mulder H, Qi Liu, Hedges DJ, Wang S, Rusch M, Edmonson M, Levy S, Lanctot JQ, Caron E, Shelton K, Currie K, Lear M, Patel A, Rosencrance C, Shao Y, Vadodaria B, Yergeau D, Sapkota Y, Brooke RJ, Moon W, Rampersaud E, Ma X, Chang TC, Rice SV, Pepper C, Zhou X, Chen X, Chen W, Jones A, Boone B, Ehrhardt MJ, Krasin MJ, Howell RM, Phillips NS, Lewis C, Srivastava D, Pui CH, Kesserwan CA, Wu G, Nichols KE, Downing JR, Hudson MM, Yasui Y, Robison LL, Zhang J. Genetic risk for subsequent neoplasms among long-term survivors of childhood cancer. J Clin Oncol. 2018 Jul 10;36(20):2078-2087. PMID: 29847298. Role: First author

140. O'Mara TA, Glubb DM, Amant F, Annibali D, Ashton K, Attia J, Auer PL, Beckmann MW, Black A, Bolla MK, Brauch H, Brenner H, Brinton L, Buchanan DD, Burwinkel B, Chang-Claude J, Chanock SJ, Chen C, Chen MM, Cheng THT, Clarke CL, Clendenning M, Cook LS, Couch FJ, Cox A, Crous-Bous M, Czene K, Day F, Dennis J, Depreeuw J, Doherty JA, Dörk T, Dowdy SC, Dürst M, Ekici AB, Fasching PA, Fridley BL, Friedenreich CM, Fritschi L, Fung J, García-Closas M, Gaudet MM, Giles GG, Goode EL, Gorman M, Haiman CA, Hall P, Hankison SE, Healey CS, Hein A, Hillemanns P, Hodgson S, Hoivik EA, Holliday EG, Hopper JL, Hunter DJ, Jones A, Krakstad C, Kristensen VN, Lambrechts D, Marchand LL, Liang X, Lindblom A, Lissowska J, Long J, Lu L, Magliocco AM, Martin L, McEvoy M, Meindl A, Michailidou K, Milne RL, Mints M, Montgomery GW, Nassir R, Olsson H, Orlow I, Otton G, Palles C, Perry JRB, Peto J, Pooler L, Prescott J, Proietto T, Rebbeck TR, Risch HA, Rogers PAW, Rübner M, Runnebaum I, Sacerdote C, Sarto GE, Schumacher F, Scott RJ, Setiawan VW, Shah M, Sheng X, Shu XO, Southey MC, Swerdlow AJ, Tham E, Trovik J, Turman C, Tyrer JP, Vachon C, VanDen Berg D, Vanderstichele A, **Wang Z**, Webb PM, Wentzensen N, Werner HMJ, Winham SJ, Wolk A, Xia L, Xiang YB, Yang HP, Yu H, Zheng W, Pharoah PDP, Dunning AM, Kraft P, De Vivo I, Tomlinson I, Easton DF, Spurdle AB, Thompson DJ. Identification of nine new susceptibility loci for endometrial cancer. Nat Commun. 2018 Aug 9;9(1):3166. PMID: 30093612.

141. Brooke RJ, Im C, Wilson CL, Krasin MJ, Liu Q, Li Z, Sapkota Y, Moon W, Morton LM, Wu G, **Wang Z**, Chen W, Howell RM, Armstrong GT, Bhatia S, Mostoufi-Moab S, Seidel K, Chanock SJ, Zhang J, Green DM, Sklar CA, Hudson MM, Robison LL, Chemaitilly W, Yasui Y. A high-risk haplotype for premature menopause in childhood cancer survivors exposed to gonadotoxic therapy. J Natl Cancer Inst. 2018 Aug 1;110(8):895-904. PMID: 29432556.

142. McMaster ML, Berndt SI, Zhang J, Slager SL, Li SA, Vajdic CM, Smedby KE, Yan H, Birmann BM, Brown EE, Smith A, Kleinstern G, Fansler MM, Mayr C, Zhu B, Chung CC, Park JH, Burdette L, Hicks BD, Hutchinson A, Teras LR, Adami HO, Bracci PM, McKay J, Monnereau A, Link BK, Vermeulen RCH, Ansell SM, Maria A, Diver WR, Melbye M, Ojesina AI, Kraft P, Boffetta P, Clavel J, Giovannucci E, Besson CM, Canzian F, Travis RC, Vineis P, Weiderpass E, Montalvan R, **Wang Z**, Yeager M, Becker N, Benavente Y, Brennan P, Foretova L, Maynadie M, Nieters A, de Sanjose S, Staines A, Conde L, Riby J, Glimelius B, Hjalgrim H, Pradhan N, Feldman AL, Novak AJ, Lawrence C, Bassig BA, Lan Q, Zheng T, North KE, Tinker LF, Cozen W, Severson RK, Hofmann JN, Zhang Y, Jackson RD, Morton LM, Purdue MP, Chatterjee N, Offit K, Cerhan JR, Chanock SJ, Rothman N, Vijai J, Goldin LR, Skibola

CF, Caporaso NE. Two high-risk susceptibility loci at 6p25.3 and 14q32.13 for Waldenström macroglobulinemia. Nat Commun. 2018 Oct 10;9(1):4182. PMID: 30305637.

143. Ostrom QT, Kinnersley B, Armstrong B, Armstrong G, Rice T, Chen Y, Wiencke JK, McCoy LS, Hansen HM, Amos CI, Berstein JL, Claus EB, Eckel-Passow JE, Il'yasova D, Johansen C, Lachance DH, Lai RK, Merrell RT, Olson SH, Sadetzki S, Schildkraut JM, Shete S, Rubin JB, Andersson U, Rajaraman P, Chanock SJ, Linet MS, **Wang Z**, Yeager M, GliomaScan Consortium, Houlston RS, Jenkins RB, Wrensch MR, Melin B, Bondy ML, Barnholtz-Sloan JS. Age-specific genome-wide association study in glioblastoma identifies increased proportion of 'lower grade glioma'-like features associated with younger age. Int J Cancer. 2018 Nov 15;143(10):2359-2366 PMID: 30152087.

144. **Wang Z**, Liu Q, Wilson CL, Easton J, Mulder H, Chang TC, Rusch MC, Edmonson MN, Rice SV, Ehrhardt MJ, Howell RM, Kesserwan CA, Wu G, Nichols KE, Downing JR, Hudson MM, Zhang J, Yasui Y, Robison LL. Polygenic determinants for subsequent breast cancer risk in survivors of childhood cancer: The St. Jude Lifetime Cohort Study (SJLIFE). Clin Cancer Res. 2018 Dec 15;24(24):6230-6235. PMID: 30366939. Role: First & corresponding author

145. Johansson M, Carreras-Torres R, Scelo G, Purdue MP, Mariosa D, Muller DC, Timpson NJ, Haycock PC, Brown KM, **Wang Z**, Ye Y, Hofmann JN, Foll M, Gaborieau V, Machiela MJ, Colli LM, Li P, Garnier JG, Blanche H, Boland A, Burdette L, Prokhortchouk E, Skryabin KG, Yeager M, Radojevic-Skodric S, Ognjanovic S, Foretova L, Holcatova I, Janout V, Mates D, Mukeriya A, Rascu S, Zaridze D, Bencko V, Cybulski C, Fabianova E, Jinga V, Lissowska J, Lubinski J, Navratilova M, Rudnai P, Benhamou S, Cancel-Tassin G, Cussenot O, Weiderpass E, Ljungberg B, Tumkur Sitaram R, Häggström C, Bruinsma F, Jordan SJ, Severi G, Winship I, Hveem K, Vatten LJ, Fletcher T, Larsson SC, Wolk A, Banks RE, Selby PJ, Easton DF, Andreotti G, Beane Freeman LE, Koutros S, Männistö S, Weinstein S, Clark PE, Edwards TL, Lipworth L, Gapstur SM, Stevens VL, Carol H, Freedman ML, Pomerantz MM, Cho E, Wilson KM, Gaziano JM, Sesso HD, Freedman ND, Parker AS, Eckel-Passow JE, Huang WY, Kahnoski RJ, Lane BR, Noyes SL, Petillo D, Teh BT, Peters U, White E, Anderson GL, Johnson L, Luo J, Buring J, Lee IM, Chow WH, Moore LE, Eisen T, Henrion M, Larkin J, Barman P, Leibovich BC, Choueiri TK, Lathrop GM, Deleuze JF, Gunter M, McKay JD, Wu X, Houlston RS, Chanock SJ, Relton C, Richards JB, Martin RM, Davey Smith G, Brennan P. The influence of obesity-related factors in the etiology of renal cell carcinoma-A mendelian randomization study. PLoS Med. 2019 Jan;16(1):e1002724. PMID: 30605491.

146. Ma X, Shao Y, Tian L, Flasch DA, Mulder HL, Edmonson MN, Liu Y, Chen X, Newman S, Nikatandwe J, Li Y, Li B, Shen S, **Wang Z**, Shurtleff S, Robison LL, Levy S, Easton J, Zhang J. Analysis of error profiles in deep next-generation sequencing data. Genome Biol. 2019 Mar 14;20(1):50. PMID: 30867008.

147. Walsh N, Zhang H, Hyland PL, Yang Q, Mocci E, Zhang M, Childs EJ, Collins I, **Wang Z**, Arslan AA, Beane-Freeman L, Bracci PM, Brennan P, Canzian F, Duell EJ, Gallinger S, Giles GG, Goggins M, Goodman GE, Goodman PJ, Hung RJ, Kooperberg C, Kurtz RC, Malats N, LeMarchand L, Neale RE, Olson SH, Scelo G, Shu XO, Van Den Eeden SK, Visvanathan K, White E, Zheng W, Albanes D, Andreotti G, Babic A, Bamlet WR, Berndt SI, Borgida A, Boutron-Ruault MC, Brais L, Brennan P, Bueno-de-Mesquita B, Buring J, Chaffee KG, Chanock S, Cleary S, Cotterchio M, Foretova L, Fuchs C, M Gaziano JM, Giovannucci E, Goggins M, Hackert T, Haiman C, Hartge P, Hasan M, Helzlsouer KJ, Herman J, Holcatova I, Holly EA, Hoover R, Hung RJ, Janout V, Klein EA, Kurtz RC, Laheru D, Lee IM, Lu L, Malats N, Mannisto S, Milne RL, Oberg AL, Orlow I, Patel AV, Peters U, Porta M, Real FX, Rothman N, Sesso HD, Severi G, Silverman D, Strobel O, Sund M, Thornquist MD, Tobias GS, Wactawski-Wende J, Wareham N, Weiderpass E, Wentzensen N, Wheeler W, Yu H, Zeleniuch-Jacquotte A, Kraft P, Li D, Jacobs EJ, Petersen GM, Wolpin BM, Risch HA,

Amundadottir LT, Yu K, Klein AP, Stolzenberg-Solomon RZ. Agnostic pathway/gene set analysis of genome-wide association data identifies associations for pancreatic cancer. J Natl Cancer Inst. 2019 Jun 1;111(6):557-567. PMID: 30541042.

148. Ehrhardt MJ, Howell CR, Hale K, Baassiri MJ, Rodriguez C, Wilson CL, Joshi SS, Lemond TC, Shope S, Howell RM, **Wang Z**, Srivastava DK, Mulrooney DA, Zhang J, Robison LL, Ness KK, Hudson MM. Subsequent breast cancer female childhood cancer survivors in the St. Jude Lifetime Cohort Study (SJLIFE). J Clin Oncol. 2019 Jul 1;37(19):1647-1656. PMID: 31075046.

149. **Wang Z**, Wilson CL, Armstrong GT, Hudson MM, Zhang J, Nichols KE, Robison LL. Association of germline BRCA2 mutations with the risk of pediatric or adolescent non-Hodgkin Lymphoma. JAMA Oncol. 2019 Jul 25;5(9):1362-1364. PMID: 31343663. Role: First & corresponding author

150. Sapkota Y, Turcotte LM, Ehrhardt MJ, Howell RM, Arnold MA, Wilson CL, Leisenring W, **Wang Z**, Sampson J, Dagnall CL, Karlins E, Li SA, Hicks BD, Weathers R, Smith SA, Shelton K, Liu Q, Tucker MA, Chanock SJ, Zhang J, Hudson MM, Neglia JP, Armstrong GT, Robison LL, Morton LM, Bhatia S, Yasui Y. Genome-wide association study in irradiated childhood cancer survivors identifies HTR2A for subsequent basal cell carcinoma. J Invest Dermatol. 2019 Sep;139(9):2042-2045.e8. PMID: 30910758.

151. Edmonson MN, Patel AN, Hedges DJ, **Wang Z**, Rampersaud E, Kesserwan CA, Zhou X, Liu Y, Newman S, Rusch MC, McLeod CL, Wilkinson MR, Rice SV, Soussi T, Taylor JP, Benatar M, Becksfort JB, Nichols KE, Robison LL, Downing JR, Zhang J. Pediatric Cancer Variant Pathogenicity Information Exchange (PeCanPIE): A cloud-based platform for curating and classifying germline variants. Genome Res. 2019 Sep;29(9):1555-1565. PMID: 31439692.

152. Laskar RS, Muller DC, Li P, Machiela MJ, Ye Y, Gaborieau V, Foll M, Hofmann JN, Colli L, Sampson JN, **Wang Z**, Bacq-Daian D, Boland A, Abedi-Ardekani B, Durand G, Le Calvez-Kelm F, Robinot N, Blanche H, Prokhortchouk E, Skryabin KG, Burdett L, Yeager M, Radojevic-Skodric S, Savic S, Foretova L, Holcatova I, Janout V, Mates D, Rascu S, Mukeria A, Zaridze D, Bencko V, Cybulski C, Fabianova E, Jinga V, Lissowska J, Lubinski J, Navratilova M, Rudnai P, Świątkowska B, Benhamou S, Cancel-Tassin G, Cussenot O, Trichopoulou A, Riboli E, Overvad K, Panico S, Ljungberg B, Sitaram RT, Giles GG, Milne RL, Severi G, Bruinsma F, Fletcher T, Koppova K, Larsson SC, Wolk A, Banks RE, Selby PJ, Easton DF, Pharoah P, Andreotti G, Beane Freeman LE, Koutros S, Albanes D, Männistö S, Weinstein S, Clark PE, Edwards TL, Lipworth L, Carol H, Freedman ML, Pomerantz MM, Cho E, Kraft P, Preston MA, Wilson KM, Michael Gaziano J, Sesso HD, Black A, Freedman ND, Huang WY, Anema JG, Kahnoski RJ, Lane BR, Noyes SL, Petillo D, Teh BT, Peters U, White E, Anderson GL, Johnson L, Luo J, Chow WH, Moore LE, Choueiri TK, Wood C, Johansson M, McKay JD, Brown KM, Rothman N, Lathrop MG, Deleuze JF, Wu X, Brennan P, Chanock SJ, Purdue MP, Scelo G. Sex specific associations in genome wide association analysis of renal cell carcinoma. Eur J Hum Genet. 2019 Oct;27(10):1589-1598. PMID: 31231134.

153. Maciaszek JL, Oak N, Chen W, Hamilton KV, McGee RB, Nuccio R, Mostafavi R, Hines-Dowell S, Harrison L, Taylor L, Gerhardt EL, Ouma A, Edmonson MN, Patel A, Nakitandwe J, Pappo AS, Azzato EM, Shurtleff SA, Ellison DW, Downing JR, Hudson MM, Robison LL, Santana V, Newman S, Zhang J, **Wang Z**, Wu G, Nichols KE, Kesserwan CA. Enrichment of heterozygous germline RECQL4 loss-of-function variants in pediatric osteosarcoma. Cold Spring Harb Mol Case Stud. 2019 Oct;5(5). PMID: 31604778.

154. 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 therapy identifies 5p15.33 locus for

stroke: A report from the St. Jude Lifetime Cohort Study. Clin Cancer Res. 2019 Nov 15;25(22):6700-6708. PMID: 31462438.

155. Wilson CL, **Wang Z**, Liu Q, Ehrhardt MJ, Mostafavi R, Easton J, Mulder H, Hedges DJ, Wang S, Rusch M, Edmonson M, Levy S, Lanctot JQ, Currie K, Lear M, Patel A, Sapkota Y, Brooke RJ, Moon W, Chang TC, Chen W, Kesserwan CA, Wu G, Nichols KE, Hudson MM, Zhang J, Robison LL, Yasui Y. Estimated number of adult survivors of childhood cancer in United States with cancer-predisposing germline variants. Pediatr Blood Cancer. 2020 Feb;67(2):e28047. PMID: 31736278.

156. Wong JYY, Zhang H, Hsiung CA, Shiraishi K, Yu K, Matsuo K, Wong MP, Hong YC, Wang J, Seow WJ, **Wang Z**, Song M, Kim HN, Chang IS, Chatterjee N, Hu W, Wu C, Mitsudomi T, Zheng W, Kim JH, Seow A, Caporaso NE, Shin MH, Chung LP, An SJ, Wang P, Yang Y, Zheng H, Yatabe Y, Zhang XC, Kim YT, Cai Q, Yin Z, Kim YC, Bassig BA, Chang J, Ho JCM, Ji BT, Daigo Y, Ito H, Momozawa Y, Ashikawa K, Kamatani Y, Honda T, Hosgood HD, Sakamoto H, Kunitoh H, Tsuta K, Watanabe SI, Kubo M, Miyagi Y, Nakayama H, Matsumoto S, Tsuboi M, Goto K, Shi J, Song L, Hua X, Takahashi A, Goto A, Minamiya Y, Shimizu K, Tanaka K, Wei F, Matsuda F, Su J, Kim YH, Oh IJ, Song F, Su WC, Chen YM, Chang GC, Chen KY, Huang MS, Chien LH, Xiang YB, Park JY, Kweon SS, Chen CJ, Lee KM, Blechter B, Li H, Gao YT, Qian B, Lu D, Liu J, Jeon HS, Hsiao CF, Sung JS, Tsai YH, Jung YJ, Guo H, Hu Z, Wang WC, Chung CC, Burdett L, Yeager M, Hutchinson A, Berndt SI, Wu W, Pang H, Li Y, Choi JE, Park KH, Sung SW, Liu L, Kang CH, Zhu M, Chen CH, Yang TY, Xu J, Guan P, Tan W, Wang CL, Hsin M, Sit KY, Ho J, Chen Y, Choi YY, Hung JY, Kim JS, Yoon HI, Lin CC, Park IK, Xu P, Wang Y, He Q, Perng RP, Chen CY, Vermeulen R, Wu J, Lim WY, Chen KC, Li YJ, Li J, Chen H, Yu CJ, Jin L, Chen TY, Jiang SS, Liu J, Yamaji T, Hicks B, Wyatt K, Li SA, Dai J, Ma H, Jin G, Song B, **Wang Z**, Cheng S, Li X, Ren Y, Cui P, Iwasaki M, Shimazu T, Tsugane S, Zhu J, Chen Y, Yang K, Jiang G, Fei K, Wu G, Lin HC, Chen HL, Fang YH, Tsai FY, Hsieh WS, Yu J, Stevens VL, Laird-Offringa IA, Marconett CN, Rieswijk L, Chao A, Yang PC, Shu XO, Wu T, Wu YL, Lin D, Chen K, Zhou B, Huang YC, Kohno T, Shen H, Chanock SJ, Rothman N, Lan Q. Tuberculosis infection and lung adenocarcinoma: Mendelian randomization and pathway analysis of genome-wide association study data from never-smoking Asian women. Genomics. 2020 Mar;112(2):1223-1232. PMID: 31306748.

157. Song N, Li Z, Qin N, Howell CR, Wilson CL, Easton J, Mulder HL, Edmonson MN, Rusch M, Zhang J, Hudson MM, Yasui Y, Robison LL, Ness KK, **Wang Z**. Shortened leukocyte telomere length associates with an increased prevalence of chronic health conditions among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. Clin Cancer Res. 2020 May 15;26(10):2362-2371. PMID: 31969337. Role: Senior & corresponding author

158. **Wang Z**, Rice SV, Chang TC, Liu Y, Liu Q, Qin N, Putnam DK, Shelton K, Lanctot JQ, Wilson CL, Ness KK, Rusch MC, Edmonson MN, Wu G, Easton J, Kesserwan CA, Downing JR, Chen X, Nichols KE, Yasui Y, Robison LL, Zhang J. Molecular mechanism of telomere length dynamics and its prognostic value in pediatric cancers. J Natl Cancer Inst. 2020 Jul 1;112(7):756-764. PMID: 31647544. Role: First & corresponding author

159. Ostrom QT, Coleman W, Huang W, Rubin JB, Lathia JD, Berens ME, Speyer G, Liao P, Wrensch MR, Eckel-Passow JE, Armstrong G, Rice T, Wiencke JK, McCoy LS, Hansen HM, Amos CI, Bernstein JL, Claus EB, Houlston RS, Il'yasova D, Jenkins RB, Johansen C, Lachance DH, Lai RK, Merrell RT, Olson SH, Sadetzki S, Schildkraut JM, Shete S, Andersson U, Rajaraman P, Chanock SJ, Linet MS, **Wang Z**, Yeager M, Melin B, Bondy ML, Barnholtz-Sloan JS. Sex-specific gene and pathway modeling of inherited glioma risk. Neuro Oncol. 2019 Jan 1;21(1):71-82. PMID: 30124908.

160. Moore A, Kane E, **Wang Z**, Panagiotou OA, Teras LR, Monnereau A, Wong Doo N, Machiela MJ, Skibola CF, Slager SL, Salles G, Camp NJ, Bracci PM, Nieters A, Vermeulen RCH, Vijai J, Smedby KE, Zhang Y, Vajdic CM, Cozen W, Spinelli JJ, Hjalgrim H, Giles GG, Link BK, Clavel J, Arslan AA, Purdue MP, Tinker LF, Albanes D, Ferri GM, Habermann TM, Adami HO, Becker N, Benavente Y, Bisanzi S, Boffetta P, Brennan P, Brooks-Wilson AR, Canzian F, Conde L, Cox DG, Curtin K, Foretova L, Gapstur SM, Ghesquières H, Glenn M, Glimelius B, Jackson RD, Lan Q, Liebow M, Maynadie M, McKay J, Melbye M, Miligi L, Milne RL, Molina TJ, Morton LM, North KE, Offit K, Padoan M, Patel AV, Piro S, Ravichandran V, Riboli E, de Sanjose S, Severson RK, Southey MC, Staines A, Stewart C, Travis RC, Weiderpass E, Weinstein S, Zheng T, Chanock SJ, Chatterjee N, Rothman N, Birmann BM, Cerhan JR, Berndt SI. Genetically determined height and risk of non-Hodgkin Lymphoma. Front Oncol. 2019;9:1539. PMID: 32064237.

161. Yan C, Zhu M, Ding Y, Yang M, Wang M, Li G, Ren C, Huang T, Yang W, He B, Wang M, Yu F, Wang J, Zhang R, Wang T, Ni J, Chen J, Jiang Y, Dai J, Zhang E, Ma H, Wang Y, Xu D, Wang S, Chen Y, Xu Z, Zhou J, Ji G, **Wang Z**, Zhang Z, Hu Z, Wei Q, Shen H, Jin G. Meta-analysis of genome-wide association studies and functional assays decipher susceptibility genes for gastric cancer in Chinese populations. Gut. 2020 Apr;69(4):641-651. PMID: 31383772.

162. Qin N, **Wang Z**, Liu Q, Song N, Wilson CL, Ehrhardt MJ, Shelton K, Easton J, Mulder H, Kennetz D, Edmonson MN, Rusch MC, Downing JR, Hudson MM, Nichols KE, Zhang J, Robison LL, Yasui Y. Pathogenic germline mutations in DNA repair genes in combination with cancer treatment exposures and risk of subsequent neoplasms among long-term survivors of childhood cancer. J Clin Oncol. 2020 Aug 20;38(24):2728-2740. PMID: 32496904. Role: Corresponding author

163. Sapkota Y, Wilson CL, Zaidi AK, Moon W, Fon Tacer K, Lu L, Liu Q, Baedke J, Dhaduk R, **Wang Z**, Chemaitilly W, Krasin MJ, Berry FB, Zhang J, Hudson MM, Robison LL, Green DM, Yasui Y. A novel locus predicts spermatogenic recovery among childhood cancer survivors exposed to alkylating agents. Cancer Res. 2020 Sep 1;80(17):3755-3764. PMID: 32554749.

164. Qin N, Li Z, Song N, Wilson CL, Easton J, Mulder H, Plyler E, Neale G, Walker E, Zhou X, Pan H, 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. J Natl Cancer Inst. 2021 May 4;113(5):597-605. PMID: 32970815. Role: Senior and corresponding author

165. Im C, Qin N, **Wang Z**, Qiu W, Howell CR, Sapkota Y, Moon W, Chemaitilly W, Gibson TM, Mulrooney DA, Ness KK, Wilson CL, Morton LM, Armstrong GT, Bhatia S, Zhang J, Hudson MM, Robison LL, Yasui Y. Generalizability of "GWAS Hits" in clinical populations: Lessons from childhood cancer survivors. Am J Hum Genet. 2020 Oct 1;107(4):636-653. PMID: 32946765.

166. Glubb DM, Thompson DJ, Aben KKH, Alsulimani A, Amant F, Annibali D, Attia J, Barricarte A, Beckmann MW, Berchuck A, Bermisheva M, Bernardini MQ, Bischof K, Bjorge L, Bodelon C, Brand AH, Brenton JD, Brinton LA, Bruinsma F, Buchanan DD, Burghaus S, Butzow R, Cai H, Carney ME, Chanock SJ, Chen C, Chen XQ, Chen Z, Cook LS, Cunningham JM, De Vivo I, deFazio A, Doherty JA, Dörk T, du Bois A, Dunning AM, Dürst M, Edwards T, Edwards RP, Ekici AB, Ewing A, Fasching PA, Ferguson S, Flanagan JM, Fostira F, Fountzilas G, Friedenreich CM, Gao B, Gaudet MM, Gawełko J, Gentry-Maharaj A, Giles GG, Glasspool R, Goodman MT, Gronwald J, Harris HR, Harter P, Hein A, Heitz F, Hildebrandt MAT, Hillemanns P, Høgdall E, Høgdall CK, Holliday EG, Huntsman DG, Huzarski T, Jakubowska A, Jensen A, Jones ME, Karlan BY, Karnezis A, Kelley JL, Khusnutdinova E, Killeen JL, Kjaer SK,

Klapdor R, Köbel M, Konopka B, Konstantopoulou I, Kopperud RK, Koti M, Kraft P, Kupryjanczyk J, Lambrechts D, Larson MC, Le Marchand L, Lele S, Lester J, Li AJ, Liang D, Liebrich C, Lipworth L, Lissowska J, Lu L, Lu KH, Macciotta A, Mattiello A, May T, McAlpine JN, McGuire V, McNeish IA, Menon U, Modugno F, Moysich KB, Nevanlinna H, Odunsi K, Olsson H, Orsulic S, Osorio A, Palli D, Park-Simon TW, Pearce CL, Pejovic T, Permuth JB, Podgorska A, Ramus SJ, Rebbeck TR, Riggan MJ, Risch HA, Rothstein JH, Runnebaum IB, Scott RJ, Sellers TA, Senz J, Setiawan VW, Siddiqui N, Sieh W, Spiewankiewicz B, Sutphen R, Swerdlow AJ, Szafron LM, Teo SH, Thompson PJ, Thomsen LCV, Titus L, Tone A, Tumino R, Turman C, Vanderstichele A, Edwards DV, Vergote I, Vierkant RA, **Wang Z**, Wang-Gohrke S, Webb PM, White E, Whittemore AS, Winham SJ, Wu X, Wu AH, Yannoukakos D, Spurdle AB, O'Mara TA. Cross-cancer genome-wide association study of endometrial cancer and epithelial ovarian cancer identifies genetic risk regions associated with risk of both cancers. Cancer Epidemiol Biomarkers Prev. 2021 Jan;30(1):217-228. PMID: 33144283.

167. Koa P-F, Amant F, Annibali D, Ashton K, Attia J, Auer PL, Beckmann MW, Black A, Brinton L, Buchanan DD, Chanock SJ, Chen C, Chen MM, Cheng THT, Cook LS, Crous-Bous M, Czene K, De Vito I, Dennis J, Dork T, Dowdy SC, Dunning AM, Durst M, Easton DF, Eicki AB, Fasching PA, Fridley BL, Friedenreich CM, Garcia-Closas M, Gaudet MM, Giles GG, Goode EL, Gorman M, Haiman CA, Hall P, Hankinson SE, Hein A, Hillemanns P, Hodgson S, Hoivik EA, Holliday EG, Hunter DJ, Jones A, Kraft P, Krakstad C, Lambrechts D, Le Marchand L, Liang X, Lindbolm A, Lissowsak J, Long J, Lu L, Magliocco AM, Martin L, McEvoy M, Milne RL, Mints M, Nassir R, Otton G, Palles C, Pooler L, Proietto T, Rebbeck TR, Renner SP, Risch HA, Rubner M, Runnebaum I, Sacerdote C, Sarto GE, Schumacher F, Scott RJ, Setiawan VW, Shah M, Sheng X, Shu X-O, Southey MC, Tham E, Tomlinson I, Trovik J, Turman C, Tyrer JP, van den Berg D, **Wang Z**, Wentzensen N, Xia L, Xiang Y-B, Yang HP, Yu H, Zheng W, Webb PM, Thompson DJ, Spurdle AB, Glubb DM, O'Mara TA. Mendelian randomization analyses suggest a role for cholesterol in the development of endometrial cancer. Int J Cancer. 2021 Jan 15;148(2):307-319. PMID: 32851660.

168. Davis EM, Sun Y, Liu Y, Kolekar P, Shao Y, Szlachta K, Mulder HL, Ren D, Rice SV, **Wang Z**, Nakitandwe J, Gout AM, Shaner B, Hall S, Robison LL, Pounds S, Klco JM, Easton J, Ma X. SequencErr: Measuring and suppressing sequencer errors in next-generation sequencing data. Genome Biol. 2021 Jan 25;22(1):37. PMID: 33487172.

169. Mhatre S, Richmond RC, Chatterjee N, Rajaraman P, **Wang Z**, Zhang H, Badwe R, Goel M, Patkar S, Shrikhande SV, Patil PS, Davey Smith G, Relton CL, Dikshit RP. The role of gallstones in gallbladder cancer in india: A Mendelian randomization study. Cancer Epidemiol Biomarkers Prev. 2021 Feb;30(2):396-403. PMID: 33187967.

170. Bletcher B, Wong JYY, Agnes Hsiung C, Hosgood HD, Yin Z, Shu XO, Zhang H, Shi J, Song L, Song M, Zheng W, **Wang Z**, Caporaso N, Burdette L, Yeager M, Berndt SI, Teresa Landi M, Chen CJ, Chang GC, Hsiao CF, Tsai YH, Chen KY, Huang MS, Su WC, Chen YM, Chien LH, Chen CH, Yang TY, Wang CL, Hung JY, Lin CC, Perng RP, Chen CY, Chen KC, Li YJ, Yu CJ, Chen YS, Chen YH, Tsai FY, Jie Seow W, Bassig BA, Hu W, Ji BT, Wu W, Guan P, He Q, Gao YT, Cai Q, Chow WH, Xiang YB, Lin D, Wu C, Wu YL, Shin MH, Hong YC, Matsuo K, Chen K, Pik Wong M, Lu D, Jin L, Wang JC, Seow A, Wu T, Shen H, Fraumeni JF, Yang PC, Chang IS, Zhou B, Chanock SJ, Rothman N, Chatterjee N, Lan Q. Sub-multiplicative interaction between polygenic risk score and household coal use in relation to lung adenocarcinoma among never-smoking women in Asia. Environ Int. 2021 Feb;147:105975. PMID: 33385923.

171. Howell CR, Bjornard KL, Ness KK, Alberts N, Armstrong GT, Bhakta N, Brinkman T, Caron E, Chemaitilly W, Green DM, Folse T, Huang IC, Jefferies JL, Kaste S, Krull KR, Lanctot JQ, Mulrooney DA, Neale G, Nichols KE, Sabin ND, Shelton K, Srivastava DK, **Wang Z**, Wilson

C, Yasui Y, Zaidi A, Zhang J, Robison LL, Hudson MM, Ehrhardt MJ. Cohort profile: The St. Jude Lifetime Cohort Study (SJLIFE) for paediatric cancer survivors. Int J Epidemiol. 2021 Mar 3;50(1):39-49. PMID: 33374007.

172. Im C, Li N, Moon W, Liu Q, Morton LM, Leisenring WM, Howell RM, Chow EJ, Sklar CA, Wilson CL, **Wang Z**, Sapkota Y, Chemaitilly W, Ness KK, Hudson MM, Robison LL, Bhatia S, Armstrong GT, Yasui Y. Genome-wide association studies reveal novel locus with sex-/therapy-specific fracture risk effects in childhood cancer survivors. J Bone Miner Res. 2021 Apr;36(4):685-695. PMID: 33338273.

173. Graff M, Justice AE, Young KL, Marouli E, Zhang X, Fine RS, Lim E, Buchanan V, Rand K, Feitosa MF, Wojczynski MK, Yanek LR, Shao Y, Rohde R, Adeyemo AA, Aldrich MC, Allison MA, Ambrosone CB, Ambs S, Amos C, Arnett DK, Atwood L, Bandera EV, Bartz T, Becker DM, Berndt SI, Bernstein L, Bielak LF, Blot WJ, Bottinger EP, Bowden DW, Bradfield JP, Brody JA, Broeckel U, Burke G, Cade BE, Cai Q, Caporaso N, Carlson C, Carpten J, Casey G, Chanock SJ, Chen G, Chen M, Chen YI, Chen WM, Chesi A, Chiang CWK, Chu L, Coetzee GA, Conti DV, Cooper RS, Cushman M, Demerath E, Deming SL, Dimitrov L, Ding J, Diver WR, Duan Q, Evans MK, Falusi AG, Faul JD, Fornage M, Fox C, Freedman BI, Garcia M, Gillanders EM, Goodman P, Gottesman O, Grant SFA, Guo X, Hakonarson H, Haritunians T, Harris TB, Harris CC, Henderson BE, Hennis A, Hernandez DG, Hirschhorn JN, McNeill LH, Howard TD, Howard B, Hsing AW, Hsu YH, Hu JJ, Huff CD, Huo D, Ingles SA, Irvin MR, John EM, Johnson KC, Jordan JM, Kabagambe EK, Kang SJ, Kardia SL, Keating BJ, Kittles RA, Klein EA, Kolb S, Kolonel LN, Kooperberg C, Kuller L, Kutlar A, Lange L, Langefeld CD, Le Marchand L, Leonard H, Lettre G, Levin AM, Li Y, Li J, Liu Y, Liu Y, Liu S, Lohman K, Lotay V, Lu Y, Maixner W, Manson JE, McKnight B, Meng Y, Monda KL, Monroe K, Moore JH, Mosley TH, Mudgal P, Murphy AB, Nadukuru R, Nalls MA, Nathanson KL, Nayak U, N'Diaye A, Nemesure B, Neslund-Dudas C, Neuhouser ML, Nyante S, Ochs-Balcom H, Ogundiran TO, Ogunniyi A, Ojengbede O, Okut H, Olopade OI, Olshan A, Padhukasahasram B, Palmer J, Palmer CD, Palmer ND, Papanicolaou G, Patel SR, Pettaway CA, Peyser PA, Press MF, Rao DC, Rasmussen-Torvik LJ, Redline S, Reiner AP, Rhie SK, Rodriguez-Gil JL, Rotimi CN, Rotter JI, Ruiz-Narvaez EA, Rybicki BA, Salako B, Sale MM, Sanderson M, Schadt E, Schreiner PJ, Schurmann C, Schwartz AG, Shriner DA, Signorello LB, Singleton AB, Siscovick DS, Smith JA, Smith S, Speliotes E, Spitz M, Stanford JL, Stevens VL, Stram A, Strom SS, Sucheston L, Sun YV, Tajuddin SM, Taylor H, Taylor K, Tayo BO, Thun MJ, Tucker MA, Vaidya D, Van Den Berg DJ, Vedantam S, Vitolins M, **Wang Z**, Ware EB, Wassertheil-Smoller S, Weir DR, Wiencke JK, Williams SM, Williams LK, Wilson JG, Witte JS, Wrensch M, Wu X, Yao J, Zakai N, Zanetti K, Zemel BS, Zhao W, Zhao JH, Zheng W, Zhi D, Zhou J, Zhu X, Ziegler RG, Zmuda J, Zonderman AB, Psaty BM, Borecki IB, Cupples LA, Liu CT, Haiman CA, Loos R, Ng MCY, North KE. Discovery and fine-mapping of height loci via high-density imputation of GWASs in individuals of African ancestry. Am J Hum Genet. 2021 Apr 1;108(4):564-582. PMID: 33713608.

174. Song N, Hsu CW, Pan H, Zheng Y, Hou L, Sim JA, Li Z, 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**. Persistent variations of blood DNA methylation associated with treatment exposures and risk for cardiometabolic outcomes in long-term survivors of childhood cancer in the St. Jude Lifetime Cohort. Genome Med. 2021 Apr 6;13(1):53. PMID: 33823916. Role: Senior & corresponding author

175. McLeod C, Gout AM, Zhou X, Thrasher A, Rahbarinia D, Brady SW, Macias M, Birch K, Finkelstein D, Sunny J, Mudunuri R, Orr BA, Treadway M, Davidson B, Ard TK, Chiao A, Swistak A, Wiggins S, Foy S, Wang J, Sioson E, Wang S, Michael JR, Liu Y, Ma X, Patel A, Edmonson MN, Wilkinson MR, Frantz AM, Chang TC, Tian L, Lei S, Islam SMA, Meyer C, Thangaraj N, Tater P, Kandali V, Ma S, Nguyen T, Serang OA, McGuire I, Robison N, Gentry

D, Tang X, Palmer LE, Wu G, Suh E, Tanner L, McMurry J, Lear M, Pappo AS, **Wang Z**, Wilson CL, Cheng Y, Meshinchi S, Alexandrov LB, Weiss MJ, Armstrong GT, Robison LL, Yasui Y, Nichols KE, Ellison DW, Bangur C, Mullighan CG, Baker SJ, Dyer MA, Miller G, Newman S, Rusch M, Daly R, Perry K, Downing JR, Zhang J. St. Jude Cloud-a Pediatric cancer genomic data sharing ecosystem. Cancer Discov. 2021 May;11(5):1082-1099. PMID: 33408242.

176. Sapkota Y, Qin N, Ehrhardt MJ, **Wang Z**, Chen Y, Wilson CL, Estepp J, Rai P, Hankins JS, Burridge PW, Jefferies JL, Zhang J, Hudson MM, Robison LL, Armstrong GT, Mulrooney DA, Yasui Y. Genetic variants associated with therapy-related cardiomyopathy among childhood cancer survivors of African ancestry. Cancer Res. 2021 May 1;81(9):2556-2565. PMID: 33288658.

177. Lubas MM, Mandrell BN, Ness KK, Srivastava DK, Ehrhardt MJ, **Wang Z**, Hudson MM, Robison LL, Krull KR, Brinkman TM. Short sleep duration and physical and psychological health outcomes among adult survivors of childhood cancer. Pediatr Blood Cancer. 2021 Jul;68(7):e28988. PMID: 33822460.

178. Kho PF, Mortlock S, Endometrial Cancer Association Consortium; **International Endometriosis Genetics Consortium (Wang Z)**; Rogers PAW, Nyholt DR, Montgomery GW, Spurdle AB, Glubb DM, O'Mara TA. Genetic analyses of gynecological disease identify genetic relationships between uterine fibroids and endometrial cancer, and a novel endometrial cancer genetic risk region at the WNT4 1p36.12 locus. Hum Genet. 2021 Sep;140(9):1353-1365. PMID: 34268601.

179. Poudel PG, Bauer HE, Srivastava DK, Krull KR, Hudson MM, Robison LL, **Wang Z**, Huang IC. Online platform to assess complex social relationships and patient-reported outcomes among adolescent and young adult cancer survivors. JCO Clin Cancer Inform. 2021 Aug;5:859-871. PMID: 34415790.

180. Delaney A, Howell CR, Krull KR, Brinkman TM, Armstrong GT, Chemaitilly W, Wilson CL, Mulrooney DA, **Wang Z**, Lanctot JQ, Johnson RE, Krull MR, Partin RE, Shelton KC, Srivastava DK, Robison LL, Hudson MM, Ness KK. Progression of frailty in survivors of childhood cancer: A St. Jude Lifetime Cohort Report. J Natl Cancer Inst. 2021 Oct 1;113(10):1415-1421. PMID: 33720359.

181. Reeves TJ, Mathis TJ, Bauer HE, Hudson MM, Robison LL, **Wang Z**, Baker JN, Huang IC. Racial and ethnic disparities in health outcomes among long-term survivors of childhood cancer: A scoping review. Front Public Health. 2021 Oct 29;9:741334. PMID: 34778176.

182. Song N, Liu Q, Wilson CL, Sapkota Y, Ehrhardt MJ, Gibson TM, Morton LM, Chanock SJ, Neglia JP, Arnold MA, Michael JR, Gout AM, Mulder HL, 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 Biomarkers Prev. 2021 Nov;30(11):2096-2104. PMID: 34465587. Role: Senior & corresponding author

183. McCastlain K, Howell CR, Welsh CE, **Wang Z**, Wilson CL, Mulder HL, Easton J, Mertens AC, Zhang J, Yasui Y, Hudson MM, Robison LL, Kundu M, Ness KK. The association of mitochondrial copy number with sarcopenia in adult survivors of childhood cancer. J Natl Cancer Inst. 2021 Nov 2;113(11):1570-1580. PMID: 33871611.

184. Dong Q, Song N, Qin N, Chen C, Li Z, Sun X, Easton J, Mulder H, Plyler E, Neale G, Walker

E, Li Q, Ma X, Chen X, Huang IC, Yaui Y, Ness KK, Zhang J, Hudson MM, Robison LL, **Wang Z**. Genome-wide association studies identify novel genetic loci for epigenetic age acceleration among survivors of childhood cancer. Genome Med. 2022 Mar 22;14(1):32. PMID: 35313970. Role: Senior & corresponding author.

185. Goodenough CG, Diouf B, Yang W, Sapkota Y, Finch ER, Lu L, Partin RE, Wogksch MD, Hudson MM, Robison LL, **Wang Z**, Jeha S, Evans WE, Ness KK. Association between CEP72 genotype and persistent neuropathy in survivors of childhood Acute Lymphoblastic leukemia. Leukemia. 2022 Apr;36(4):1160-1163. PMID: 34980876.

186. Sapkota Y, Liu Q, Li N, Bhatt NS, Ehrhardt MJ, Wilson CL, **Wang Z**, Jefferies JL, Zhang J, Armstrong GT, Hudson MM, Robison LL, Mulrooney DA, Yasui Y. Contribution of genome-wide polygenic score to risk of coronary artery disease in childhood cancer survivors. JACC CardioOncol. J Cancer Surviv. 2022 Jun 21;4(2):258-267. PMID: 35818558.

187. Sapkota Y, Qiu W, Dixon SB, Wilson CL, **Wang Z**, Zhang J, Leisenring W, Chow EJ, Bhatia S, Armstrong GT, Robison LL, Hudson MM, Delaney A, Yasui Y. Genetic risk score enhances the risk prediction of severe obesity in adult survivors of childhood cancer. Nat Med. 2022 Aug;28(8):1590-1598. PMID: 35879615.

188. Chen C, Song N, Dong Q, Sun X, Li Z, Mulder HL, Easton J, Zhang J, Yasui Y, Bhatia S, Armstrong GT, Wang H, Ness KK, Hudson MM, Robison LL, **Wang Z**. Association of single-nucleotide variants in the human leukocyte antigen and other loci with childhood Hodgkin Lymphoma. JAMA Open Network. 2022 Aug 1;5(8):e2225647. PMID: 35939300. Role: Senior & corresponding author

189. Sapkota Y, Ehrhardt MJ, Qin N, **Wang Z**, Liu Q, Qiu W, Shelton K, Shao Y, Plyler E, Mulder HL, Easton J, Michael JR, Burridge PW, Wang X, Wilson CL, Jefferies JL, Chow EJ, Oeffinger KC, Morton LM, Li C, Yang JJ, Zhang J, Bhatia S, Mulrooney DA, Hudson MM, Robison LL, Armstrong GT, Yasui Y. A novel locus on 6p21.2 for cancer treatment-induced cardiac dysfunction among childhood cancer survivors. J Natl Cancer Inst. 2022 Aug 8;114(8):1109-1116. PMID: 35698272.

190. Im C, Yuan Y, Austin ED, Stokes DC, Krasin MJ, Davidoff AM, Sapkota Y, **Wang Z**, Ness KK, Wilson CL, Armstrong GT, Hudson MM, Robison LL, Mulrooney DA, Yasui Y. Leveraging therapy-specific polygenic risk scores to predict restrictive lung defects in childhood cancer survivors. Cancer Res. 2022 Aug 16;82(16):2940-2950. PMID: 35713625.

191. 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**. Blood DNA methylation signatures are associated with social determinants of health among survivors of childhood cancer. Epigenetics. 2022 Nov;17(11):1389-1403. PMID: 35109748. Role: Senior & corresponding author

192. Goodenough CG, Wogksch MD, Kundu M, Lear M, Thomas PG, Srivastava DK, **Wang Z**, Armstrong GT, Hudson MM, Robison LL, Ness KK. Associations between exercise capacity, p16INK4a expression and inflammation among adult survivors of childhood cancer. Front Oncol. 2022 Nov 8;12:1014661. PMID: 36425549.

193. Berndt SI, Vijai J, Benavente Y, Camp NJ, Nieters A, **Wang Z**, Smedby KE, Kleinstern G, Hjalgrim H, Besson C, Skibola CF, Morton LM, Brooks-Wilson AR, Teras LR, Breeze C, Arias J, Adami HO, Albanes D, Anderson KC, Ansell SM, Bassig B, Becker N, Bhatti P, Birmann BM, Boffetta P, Bracci PM, Brennan P, Brown EE, Burdett L, Cannon-Albright LA, Chang ET, Chiu BCH, Chung CC, Clavel J, Cocco P, Colditz G, Conde L, Conti DV, Cox DG, Curtin K,

Casabonne D, De Vivo I, Diver WR, Dogan A, Edlund CK, Foretova L, Fraumeni JF Jr, Gabbas A, Ghesquières H, Giles GG, Glaser S, Glenn M, Glimelius B, Gu J, Habermann TM, Haiman CA, Haioun C, Hofmann JN, Holford TR, Holly EA, Hutchinson A, Izhar A, Jackson RD, Jarrett RF, Kaaks R, Kane E, Kolonel LN, Kong Y, Kraft P, Kricker A, Lake A, Lan Q, Lawrence C, Li D, Liebow M, Link BK, Magnani C, Maynadie M, McKay J, Melbye M, Miligi L, Milne RL, Molina TJ, Monnereau A, Montalvan R, North KE, Novak AJ, Onel K, Purdue MP, Rand KA, Riboli E, Riby J, Roman E, Salles G, Sborov DW, Severson RK, Shanafelt TD, Smith MT, Smith A, Song KW, Song L, Southey MC, Spinelli JJ, Staines A, Stephens D, Sutherland HJ, Tkachuk K, Thompson CA, Tilly H, Tinker LF, Travis RC, Turner J, Vachon CM, Vajdic CM, Van Den Berg A, Van Den Berg DJ, Vermeulen RCH, Vineis P, Wang SS, Weiderpass E, Weiner GJ, Weinstein S, Doo NW, Ye Y, Yeager M, Yu K, Zeleniuch-Jacquotte A, Zhang Y, Zheng T, Ziv E, Sampson J, Chatterjee N, Offit K, Cozen W, Wu X, Cerhan JR, Chanock SJ, Slager SL, Rothman N. Distinct germline genetic susceptibility profiles identified for common non-Hodgkin lymphoma subtypes. Leukemia. 2022 Dec;36(12):2835-2844. PMID: 36273105. Role: Co-First author. *Correction: Leukemia. 2023 Oct;37(10):2142. PMID: 37666943.*

194. Wang F, Moon W, Letsou W, Sapkota Y, **Wang Z**, Im C, Baedke JL, Robison LL, Yasui Y. Genome-wide analysis of rare haplotypes associated with breast cancer risk. Cancer Res. 2023 Jan 18;83(2):332-345. PMID: 36354368.

195. Yasui Y, Letsou W, Wang F, Im C, Sapkota Y, **Wang Z**, Mirzaei Salehabadi S, Baedke JL, Moon WJ, Liu Q, Robison LL, Martinez JM. Inference on the genetic architecture of breast cancer risk. Cancer Epidemiol Biomarkers Prev. 2023 Jan 18;EPI-22-1073. PMID: 36652676.

196. Shin H, Dudley WN, Bhakta N, Horan MR, **Wang Z**, Bartlett TR, Srivastava D, Yasui Y, Baker JN, Robison LL, Ness KK, Krull KR, Hudson MM, Huang IC. Associations of symptom clusters and health outcomes in adult survivors of childhood cancer: A report from the St. Jude Lifetime Cohort Study. J Clin Oncol. 2023 Jan 20;41(3):497-507. PMID: 36166720.

197. Song N, Dong Q, Chen C, Li Q, Mulder H, Plyler E, Easton J, Walker E, Olson S, Neale G, Krull KR, Srivastava DK, Ness KK, Zhang J, Hudson MM, Robison LL, Huang IC, **Wang Z**. Social-epigenetic mediators for racial disparities in pulmonary impairment among childhood cancer survivors. Letter to the Editor. Cancer Commun (Lond). 2023 Feb;43(2):290-293. PMID: 36256508. Role: Senior & corresponding author

198. Williams AM, Mandelblatt J, Wang M, Armstrong GT, Bhakta N, Brinkman TM, Chemaitilly W, Ehrhardt MJ, Mulrooney DA, Small BJ, **Wang Z**, Srivastava D, Robison LL, Hudson MM, Ness KK, Krull KR. Premature aging as an accumulation of deficits in young adult survivors of pediatric cancer. J Natl Cancer Inst. 2023 Feb 8;115(2):200-207. PMID: 36370084.

199. Dong Q, Chen C, Song N, Qin N, Plonski NM, Finch E, Shelton K, Easton J, Mulder H, Plyer E, Neale G, Walker E, Li Q, Huang IC, Zhang J, Wang H, Hudson MM, Robison LL, Ness KK, **Wang Z**. Distinct DNA methylation signatures associated with blood lipids as exposures or outcomes among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. Clin Epigenetics. 2023 Feb 28;15(1):32. PMID: 36855205. Role: Senior & corresponding author

200. Murphy AJ, Cheng C, Williams J, Shaw TI, Pinto EM, Dieseldorff-Jones K, Brzezinski J, Renfro LA, Tomwall B, Huff V, Long AL, Mullen EA, Crompton B, Dome JS, Fernandez CV, Geller JI, Ehrlich PF, Mulder H, Oak N, Maciezsek J, Jablonowski C, Fleming AM, Pichavaram P, Morton CL, Easton J, Nichols KE, Clay MR, Santiago T, Zhang J, Yang J, Zambetti GP, **Wang Z**, Davidoff AM, Chen X. The genetic and epigenetic features of bilateral Wilms tumor predisposition: A report from the Children's Oncology Group AREN18B5-Q study. Preprint: Res Sq. 2023 Mar 16;rs.3.rs-2675436. PMID: 36993649.

201. Hagiwara K, Natarajan S, **Wang Z**, Zubair H, Mulder HL, Dong L, Plyler EM, Thimmaiah P, Ma X, Ness KK, Li Z, Mulrooney DA, Wilson CL, Yasui Y, Hudson MM, Easton J, Robison LL, Zhang J. Dynamics of age- versus therapy-related clonal hematopoiesis in long term survivors of pediatric cancer. Cancer Discov. 2023 Apr 3;13(4):844-857. PMID: 36751942.

202. Plonski NM, Chen C, Dong Q, Song N, Shelton K, Finch E, Easton J, Mulder H, Zhang J, Neale G, Walker E, Wang H, Krull KR, Ness KK, Hudson MM, Robison LL, Li Q, Williams AM, **Wang Z**. Epigenetic age in peripheral blood among children, adolescent, and adult survivors of childhood cancer. JAMA Netw Open. 2023 Apr 3;6(4):e2310325. PMID: 37115548. Role: Senior & corresponding author

203. Ware M, Delaney A, Krull KR, Brinkman TM, Armstrong GT, Wilson CL, Mulrooney DA, **Wang Z**, Lanctot JQ, Krull MR, Partin RE, Shelton KC, Srivastava DK, Hudson MM, Robison LL, Ness KK. Cancer-related worry as a predictor of 5-yr physical activity level in childhood cancer survivors. Med Sci Sports Exerc. 2023 Sep 1;55(9):1584-1591. PMID: 37093894

204. Shiraishi K, Choi J, Matsuo K, Chen TY, Dai J, Hung RJ, Chen K, Shu XO, Kim YT, Landi MT, Lin D, Zheng W, Yin Z, Zhou B, Song B, Wang J, Seow WJ, Song L, Chang IS, Hu W, Chien LH, Cai Q, Hong YC, Kim HN, Wu YL, Wong MP, Richardson BD, Funderburk KM, Li S, Zhang T, Breeze C, **Wang Z**, Blechter B, Bassig BA, Kim JH, Albanes D, Wong JYY, Shin MH, Chung LP, Yang Y, An SJ, Zheng H, Yatabe Y, Zhang XC, Kim YC, Caporaso NE, Chang J, Ho JCM, Kubo M, Daigo Y, Song M, Momozawa Y, Kamatani Y, Kobayashi M, Okubo K, Honda T, Hosgood DH, Kunitoh H, Patel H, Watanabe SI, Miyagi Y, Nakayama H, Matsumoto S, Horinouchi H, Tsuboi M, Hamamoto R, Goto K, Ohe Y, Takahashi A, Goto A, Minamiya Y, Hara M, Nishida Y, Takeuchi K, Wakai K, Matsuda K, Murakami Y, Shimizu K, Suzuki H, Saito M, Ohtaki Y, Tanaka K, Wu T, Wei F, Dai H, Machiela MJ, Su J, Kim YH, Oh IJ, Lee VHF, Chang GC, Tsai YH, Chen KY, Huang MS, Su WC, Chen YM, Seow A, Park JY, Kweon SS, Chen KC, Gao YT, Qian B, Wu C, Lu D, Liu J, Schwartz AG, Houlston R, Spitz MR, Gorlov IP, Wu X, Yang P, Lam S, Tardon A, Chen C, Bojesen SE, Johansson M, Risch A, Bickeböller H, Ji BT, Wichmann HE, Christiani DC, Rennert G, Arnold S, Brennan P, McKay J, Field JK, Shete SS, Le Marchand L, Liu G, Andrew A, Kiemeney LA, Zienolddiny-Narui S, Grankvist K, Johansson M, Cox A, Taylor F, Yuan JM, Lazarus P, Schabath MB, Aldrich MC, Jeon HS, Jiang SS, Sung JS, Chen CH, Hsiao CF, Jung YJ, Guo H, Hu Z, Burdett L, Yeager M, Hutchinson A, Hicks B, Liu J, Zhu B, Berndt SI, Wu W, Wang J, Li Y, Choi JE, Park KH, Sung SW, Liu L, Kang CH, Wang WC, Xu J, Guan P, Tan W, Yu CJ, Yang G, Sihoe ADL, Chen Y, Choi YY, Kim JS, Yoon HI, Park IK, Xu P, He Q, Wang CL, Hung HH, Vermeulen RCH, Cheng I, Wu J, Lim WY, Tsai FY, Chan JKC, Li J, Chen H, Lin HC, Jin L, Liu J, Sawada N, Yamaji T, Wyatt K, Li SA, Ma H, Zhu M, **Wang Z**, Cheng S, Li X, Ren Y, Chao A, Iwasaki M, Zhu J, Jiang G, Fei K, Wu G, Chen CY, Chen CJ, Yang PC, Yu J, Stevens VL, Fraumeni JF Jr, Chatterjee N, Gorlova OY, Hsiung CA, Amos CI, Shen H, Chanock SJ, Rothman N, Kohno T, Lan Q. Genome-wide association study of lung adenocarcinoma in East Asia and comparison with a European population. Nat Commun. 2023 May 26;14(1):3043. PMID: 37236969

205. Maharaj A, Jefferies JL, Mulrooney DA, Armstrong GT, Brinkman TM, O'Neil ST, Terrell S, Partin RE, Srivastava DK, Hudson MM, **Wang Z**, Ness KK. Design and methods of a randomized telehealth-based intervention to improve fitness in survivors of childhood cancer with exercise intolerance. Contemp Clin Trials. 2023 Sep 18;133:107339. PMID: 37730199

206. Im C, Sharafeldin N, Yuan Y, **Wang Z**, Sapkota Y, Lu Z, Spector LG, Howell RM, Arnold MA, Hudson MM, Ness KK, Robison LL, Bhatia S, Armstrong GT, Neglia JP, Yasui Y, Turcotte LM. Polygenic risk and chemotherapy-related subsequent malignancies in childhood cancer survivors: A Childhood Cancer Survivor Study and St. Jude Lifetime Cohort Study Report. J Clin Oncol. 2023 Sep 20;41(27):4381-4393. PMID: 37459583

207. Chen C, Qin N, Wang M, Dong Q, Tithi SS, Hui Y, Chen W, Wu G, Kennetz D, Edmonson MN, Rusch MC, Thrasher A, Easton J, Mulder HL, Song N, Plonski NM, Shelton K, Im C, Ehrhardt MJ, Nichols KE, Leisenring WM, Stratton KL, Howell R, Yasui Y, Bhatia S, Armstrong GT, Ness KK, Hudson MM, Zhang J, Wang H, Srivastava DK, Robison LL, **Wang Z**. Cancer germline predisposing variants and late mortality from subsequent malignant neoplasms among long-term childhood cancer survivors: A report from the St. Jude Lifetime Cohort and the Childhood Cancer Survivor Study. Lancet Oncol. 2023 Oct;24(10):1147-1156. PMID: 37797633. Role: Senior & corresponding author

208. LaFlamme CW, Rastin C, Sengupta S, Pennington HE, Russ-Hall SJ, Schneider AL, Bonkowski ES, Almanza Fuerte EP, Galey M, Goffena J, Gibson SB, Allan TJ, Nyaga DM, Lieffering N, Hebbar M, Walker EV, Darnell D, Olsen SR, Kolekar P, Djekidel N, Rosikiewicz W, McConkey H, Kerkhof J, Levy MA, Relator R, Lev D, Lerman-Sagie T, Park KL, Alders M, Cappuccio G, Chatron N, Demain L, Genevieve D, Lesca G, Roscioli T, Sanlaville D, Tedder ML, Hubshman MW, Ketkar S, Dai H, Worley KC, Rosenfeld JA, Chao HT; Undiagnosed Diseases Network; Neale G, Carvill GL; University of Washington Center for Rare Disease Research; **Wang Z**, Berkovic SF, Sadleir LG, Miller DE, Scheffer IE, Sadikovic B, Mefford HC. Diagnostic utility of genome-wide DNA methylation analysis in genetically unsolved developmental and epileptic encephalopathies and refinement of a CHD2 episignature. edRxiv. 2023 Oct 12:2023.10.11.23296741. Preprint. PMID: 37873138

209. Williams ALM, Mandelblatt J, Wang M, Dong Q, Armstrong GT, Bhakta N, Brinkman TM, Ehrhardt MJ, Mulrooney DA, Gilmore N, Robison LL, Yasui Y, Small BJ, Srivastava DK, Hudson MM, Ness KK, Krull KR, **Wang Z**. Deficit accumulation index and biological markers of aging in survivors of childhood cancer. JAMA Netw Open. 2023 Nov 1;6(11):e2344015. PMID: 37983031. Role: Senior & corresponding author

210. Murphy AJ, Cheng C, Williams J, Shaw TI, Pinto EM, Dieseldorff-Jones K, Brzezinski J, Renfro LA, Tornwall B, Huff V, Hong AL, Mullen EA, Crompton B, Dome JS, Fernandez CV, Geller JI, Ehrlich PF, Mulder H, Oak N, Maciezsek J, Jablonowski C, Fleming AM, Pichavaram P, Morton CL, Easton J, Nichols KE, Clay MR, Santiago T, Zhang J, Yang J, Zambetti GP, **Wang Z**, Davidoff AM, Chen X. Genetic and epigenetic features of bilateral Wilms tumor predisposition in patients from the Children's Oncology Group AREN18B5-Q. Nat Commun. 2023 Dec 18;14(1):8006. PMID: 38110397.

211. Plonski NM, Pan Y, Chen C, Dong Q, Zhang X, Song N, Shelton K, Easton J, Mulder H, Zhang J, Neale G, Walker E, Wang H, Webster R, Brinkman T, Krull KR, Armstrong GT, Ness KK, Hudson MM, Li Q, Huang IC, **Wang Z**. Health-related quality of life and DNA methylation-based aging biomarkers among survivors of childhood cancer. Role: Senior & corresponding author. J Natl Cancer Inst. 2024 Jul 1;116(7):1116-1125. PMID: 38445706. Role: Senior & corresponding author

212. Guida J, Hyun G, Belsky DW, Armstrong GT, Ehrhardt MJ, Hudson MM, Green PA, Robison LL, Streck BP, Tonorezos ES, Yasui Y, Wilson CL, **Wang Z**, Ness KK. Associations of seven measures of biological age acceleration with frailty and all-cause mortality among adult survivors of childhood cancer in the St. Jude Lifetime Cohort. Nat Cancer. 2024 May;5(5):731-741. PMID: 38553617. Role: Co-Senior author

213. Chang TC, Yu J, **Wang Z**, Hankins JS, Weiss MJ, Wu G, Westhoff CM, Chou ST, Zheng Y. Machine learning to optimize automated RH genotyping using whole-exome sequencing data. Blood Adv. 2024 Jun 11;8(11):2651-2659. PMID: 38522094.

214. Matt G, Sioson E, Shelton K, Wang J, Lu C, Peraza AZ, GangwaniK, Paul R, Reilly C, Acic A,

Shelton K, Liu Q, Sandor S, McLeod C, Patel J, Wang F, Im C, **Wang Z**, Sapkota Y, Wilson CL, Bhakta N, Ness KK, Armstrong GT, Hudson MM, Robison LL, Zhang J, Yasui Y, Zhou X. St. Jude Survivorship Portal: Sharing and analyzing large clinical and genomic datasets from pediatric cancer survivors. Cancer Discov. 2024 Aug 2;14(8):1403-1417. PMID: 38593228

215. Berkman AM, Goodenough CG, Durakiewicz P, Howell CR, **Wang Z**, Easton J, Mulder HL, Armstrong GT, Hudson MM, Kundu M, Ness KK. Associations between mitochondrial copy number, exercise capacity, physiologic cost of walking and cardiac strain in young adult survivors of childhood cancer. J Cancer Surviv. 2024 Aug;18(4):1154-1167. PMID: 38635100

216. Chen C, Plonski NM, Dong Q, Song N, Zhang X, Parikh HM, Finch ER, Easton J, Mulder HL, Walker E, Neale G, Pan Y, Li Q, Zhang J, Krull KR, Robison LL, Armstrong GT, Yasui Y, Ness KK, Hudson MM, Wang H, Huang IC, **Wang Z**. Race/ethnicity, socioeconomic factors and epigenetic age acceleration in childhood cancer survivors. Role: Senior & corresponding author. JAMA Netw Open. 2024 Jul 1;7(7):e2419771. PMID: 38954412

217. Matt GY, Sioson E, Shelton K, Wang J, Lu C, Peraza AZ, Gangwani K, Paul R, Reilly C, Liu AAQ, Sander SR, McLeod C, Patel J, Wang F, Im C, **Wang Z,** Sapkota Y, Wilson CL, Bhakta N, Ness KK, Armstrong GT, Hudson MM, Robison LL. Zhang J, Yasui Y, Zhou X. St. Jude Survivorship Portal: Sharing and Analyzing Large Clinical and Genomic Datasets from Pediatric Cancer Survivors. Cancer Discov. 2024 Dec 2;14(12);2554. PMID 39618286

218. Oh K, Yuk M, Yang S, Youn J, Dong Q, Wang Z, Song N. A genome-wide association study of high-sensitivity C-reactive protein in a large Korean population highlights its genetic relationship with cholesterol metabolism. Sci Rep. 2025 Jan 2;15(1):189. PMID 39747571.

ii. Original Research Articles Accepted for Publication

1. Dong Q, Song N, Bian W, Eulalio T, Easton J, Mulder HL, Walker E, Neale G, Shelton K, Ehrhardt MJ, Lucas JT Jr, Karol SE, Srivastava DK, Huang I-C, Zhang J, Robison LL, Armstrong GT, Hudson MM, Ness KK, **Wang Z**. DNA methylation signatures in blood associated with cancer therapy exposures among long-term childhood cancer survivors of African ancestry. J Natl Cancer Inst. 2024 Aug 5 (in press)

2. **Wang Z,** Zhang J. Genetic and epigenetic bases of long-term adverse effects of childhood cancer therapy. Nature Rev. 2024 Oct 1 (in press).

3. Oh k, Yuk M, Yang S. Youn J , Yun D, Dong Q. **Wang Z**, Song N. A genome- wide association study of multiple epigenetic age accelerations identifies novel genetic variants within ENO2 in and East Asian population. American Society of Human Genetics (ASHG) Annual Conference. Denver, CO. November 5-9, 2024. Poster presentation.

4. Hubbard AK, Zhou W, Boyce C, Khan J , Hudson MM, Ness KK, **Wang Z**, Janeway KA, Lupo PJ, Morton LM, Chanock SJ, Grunewald TGP, Delattre O, Machiela MJ, Ewing. Sarcoma Germline Genetics Group. Multiple new Ewing sarcoma susceptibility loci expand knowledge of germline genetic etiology and nominate mechanisms of risk. American Society of Human Genetics (ASHG) Annual Conference. Denver, CO. November 5-9, 2024 Poster presentation.

iii. Original Research Articles Submitted for Review

1. Chen C, Dong Q, Pan Y, Li Q, Plonski NM, Song N, Zhang X, Wang H, Easton J, Mulder HL, Natarajan S, Zhang J, Walker E, Neale G, Howell R, Rhea IB, Jefferies J, Robison LL, Mulrooney DA, Dixon SB, Yasui Y, Ness KK, Hudson MM, Wang H, Chen X, Armstrong GT, **Wang Z**. Epigenetic age acceleration partially mediates the established association between radiation to the heart and risk of myocardial infarction among survivors of childhood cancer. Role: Senior & corresponding author. Submitted

2. Williams ALM, Phillips NS, Dong Q, Ehrhardt MJ, Gilmore N, Loh KP, Bao M, Ness KK, Hudson MM, Robison LL, **Wang Z**, Krull KR. Epigenetic age acceleration, telomere length, and neurocognitive function in long-term survivors of pediatric cancer: A report from the St. Jude Lifetime Cohort. Role: Co-Senior author. Submitted

3. Wilson CL, Xin R, Matt G, Yasui Y, Im C, Armstrong GT, Dixon S, Sapkota Y, **Wang Z**, Hudson MM, Robison LL, Ness KK. Genetic risk, adherence to a healthy lifestyle, and lipid profiles among survivors of childhood cancer. Submitted

4. **Wang Z**, Chen C, Dong Q, Pan Y, Toy H, Finch ER, Wang H, Easton J, Mulder HL, Zhang J, Walker E, Neale G, Li Q, Howell R, Jefferies JL, Robison LL, Mulrooney DA, Yasui Y, Ness KK, Hudson MM, Wang H, Chen X, Armstrong GT. Leukocyte subtype-specific epigenetic age acceleration and cardiac outcomes among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort Study.

5. Meng X, Chen C, Qin N, Mulder HL, Easton J, Edmonson MN, Rusch M, Zhang J, Myers J, Spector LG, Turcotte LM, Yang J, Nichols KE, Pui CH, Xu J, Mullighan C, Hudson MM, Ness KK, Armstrong GT, Chatterjee N, Im C, **Wang Z.** Genetic risk for pediatric acute lymphoblastic leukemia: Harnessing data from the St. Jude Lifetime Cohort and the Childhood Cancer Survivor Study for etiology research. Submitted

6. Plonski NM, Pan Y, Chen C, Dong Q, Zhang X, Song N, Shelton K, Easton J, Mulder H, Zhang J, Neale G, Walker E, Wang H, Webster R, Brinkman T, Krull KR, Armstrong GT, Ness KK, Hudson MM, Li Q, Huang IC, **Wang Z**. Associations between patient-reported outcomes and DNA methylation predicted aging biomarkers among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. Submitted

7. Dong Q, Song N, Bian W, Eulalio T, Easton J, Mulder HL, Walker E, Neale G, Shelton K, Ehrhardt MJ, Lucas JT Jr, Karol SE, Srivatava DK, Huang IC, Zhang J, Robison LL, Armstrong GT, Hudson MM, Ness KK, **Wang Z.** DNA methylation signatures associated with cancer therapy among childhood cancer survivors of African ancestry. Submitted

8. Brady SW, Arnold MA, Wang M, Alsallaq R, Dong L, Khan MA, Yang W, Stratton KL, Liu W, Chen Y, Plyler E, Steele K, Powers BB, Rosenfeld D. Edmonson M, Arunachalam S, Mulder HL, Srivastava D, Rusch M, Nolan V, McDonald A, Turcotte LM, Im C, Easton K, **Wang Z**, Leisenring WM, Conces M, Neglia JP, Yasui Y, Bhatia S, Zhang J, Armstrong GT. The genomic landscape of subsequent breast, meningioma, and thyroid neoplasms after treatment for childhood cancer: A report from the Childhood Cancer Survivor Study. 116th American Association for Cancer Research (AACR) Annual Meeting. Chicago, IL. April 25-30, 2025. Submitted

iv. Reviews

1. Amos CI, Dennis J, **Wang Z**, Byun J, Schumacher FR, Gayther SA, Casey G, Hunter DJ, Sellers TA, Gruber SB, Dunning AM, Michailidou K, Fachal L, Doheny K, Spurdle AB, Li Y, Xiao X, Romm J, Pugh E, Coetzee GA, Hazelett DJ, Bojesen SE, Caga-Anan C, Haiman CA, Kamal A, Luccarini C, Tessier D, Vincent D, Bacot F, van den Berg DJ, Nelson S, Demetriades S, Goldgar DE, Couch FJ, Forman JL, Giles GG, Conti DV, Bickeböller H, Risch A, Waldenberger M, Brüske-Hohlfeld I, Hicks BD, Ling H, McGuffog L, Lee A, Kuchenbaecker K, Soucy P, Manz J, Cunningham JM, Butterbach K, Kote-Jarai Z, Kraft P, FitzGerald L, Lindström S, Adams M, McKay JD, Phelan CM, Benlloch S, Kelemen LE, Brennan P, Riggan M, O'Mara TA, Shen H, Shi Y, Thompson DJ, Goodman MT, Nielsen SF, Berchuck A, Laboissiere S, Schmit SL, Shelford T, Edlund CK, Taylor JA, Field JK, Park SK, Offit K, Thomassen M, Schmutzler R, Ottini L, Hung RJ, Marchini J, Amin Al Olama A, Peters U, Eeles RA, Seldin MF, Gillanders E, Seminara D, Antoniou AC, Pharoah PD, Chenevix-Trench G, Chanock SJ, Simard J, Easton DF. The OncoArray Consortium: A network for understanding the genetic architecture of common cancers. Cancer Epidemiol Biomarkers Prev. 2017 Jan;26(1):126-135. Review. PMID: 27697780

2. Ness KK, Kirkland JL, Gramatges MM, **Wang Z**, Kundu M, McCastlain K, Li-Harms X, Zhang J, Tchkonia T, Pluijm SMF, Armstrong GT. Premature physiologic aging as a paradigm for understanding increased risk of adverse health across the lifespan of survivors of childhood cancer. J Clin Oncol. 2018 Jul 20;36(21):2206-2215. Review. PMID: 29874132

3. Poudel PG, Horan MR, Brinkman TM, **Wang Z**, Robison LL, Hudson MM, Huang IC. Interventions with social integration components addressing psychosocial outcomes of young- and middle-aged adult cancer individuals: A systematic review. Cancers (Basel). 2023 Sep 25;15(19):4710. Review. PMID: 37835404

v. Reviews - Accepted for Publication

1. **Wang Z**, Zhang J. Genetic and epigenetic bases of long-term adverse effects of childhood cancer therapy. Nat Rev Cancer. 2024 Oct 1 (in press). Review

2. Dong Q, Song N, Zhang X, Chen C, Easton J, Mulder HL, Walker E, Neale G, Shelton K, Ehrhardt M, Lucas J, Karol S, Srivastava DK, Huang IC, Zhang J, Robison LL, Armstrong GT, Hudson MM, Ness KK, **Wang Z.** Blood DNA methylation signatures associated with cancer therapy exposures among childhood cancer survivors of African Ancestry: A report from the St. Jude Lifetime Cohort Study. Role: Senior & corresponding author. J Natl Cancer Inst. 2024 Aug 5 (in press).

vi. Editorials and Commentaries

1. **Wang Z**. Distinct genomic alterations in prostate tumors from African American men. Comment. EBioMedicine. 2015 Nov 19;2(12):1850-1851. PMID: 26844255. Role: Senior & corresponding author

2. **Wang Z**, Chatterjee N. Increasing mapping precision of genome-wide association studies: To genotype and impute, sequence, or both? Genome Biol. 2017;18(1):118. PMID: 28629446. Role: Corresponding author

3. **Wang Z,** The Ticking “epigenetic” clock measures true biological age.The Progress Article 2024.

vii. Abstracts

1. Landi M, Chatterjee N, Yu K, Jacobs K, Bergen A, Goldin L, Goldstein A, **Wang Z**, Birdette L, Abames D, Geneva Study, Oken M, Thun M, Consonni D, Pesatori A, Amos C, Houlston R, Brennan P, Hung R, Gaborieau V, Spitz M, Wang Y, Krokan H, Vatten L, Benhamou S, Metsapalu A, Field J, Chen C, Goodman G, Bickeboller H, Risch A, Wichmann H-E, Rafnar T, Stefansson K, Lathrop M, Bertazzi PA, Tucker M, Chanock S, Caporaso. A comprehensive genome-wide association study of lung cancer. AACR Annual Meeting. Abstract # LB-139. Philadelphia, PA. 2009. *Cancer Res (2009) 69 (9_Supplement): LB-139.*

2. Parikh HM, **Wang Z**, Pettigrew K, Jia J, Daugherty S, Yeager M, Jacobs K, Hutchinson A, Burdett L, Cullen M, Qi L, Boland J, Collins I, Albert T, Vatten L, Hveem K, Njølstad I, Cancel-Tassin G, Cussenot O, Valeri A, Virtamo J, Thun M, Feigelson HS, Diver WR, Chatterjee N, Thomas G, Albanes D, Chanock S, Hunter D, Hoover R, Hayes R, Berndt S, Sampson J, Amundadottir L. Fine mapping the KLK3 locus on chromosome 19q13.33 associated with prostate cancer susceptibility and PSA levels. AACR Annual Meeting. Abstract # 2778. April 2-6, 2011. Orlando, FL. *Cancer Res. 2011;71(8 Suppl):Abstract nr 2778*.

3. Schumacher FR, Berndt SI, Siddiq A, Jacobs K, **Wang Z**, Lindstrom S, Stevens VL, Chen C, Mondul AM, Travis RC, Stram DO, Eeles RA, Easton DF, Giles G, Severi G, Gronberg H, Wiklund F, Allen NE, Andriole GL, Barricarte A, Boeing H, Bueno de Mesquita HB, Crawford ED, Diver WR, Gonzalez CA, Garziano JM, Giovannucci EL, Johansson M, Le Marchand L, Ma J, Sier S, Stattin P, Stampfer J, Tjonneland A, Vineis P, Virtamo J, Vogel U, Weinstein SJ, Yeager M, Thun J, Kolonel LN, Henderson BE, Albanes D, Hayes RB, Feigelson HS, Riboli E, Hunter DJ, Chanock SJ, Haiman CA, Kraft P. Genome-wide association study identifies new prostate cancer susceptibility loci. AACR Annual Meeting. Abstract # LB-448. April 2-6, 2011. Orlando, FL. *Cancer Res. 2011;71(8 Suppl):Abstract nr LB-448.*

4. Cook MB, **Wang Z**, Yeboah ED, Adjei AA, Tettey Y, Biritwum RB, Tay E, Truelove A, Niwa S, Chu L, Yeager M, Hutchinson A, Yu K, Haiman CA, African American Prostate Cancer GWAS Consortium, Hoover RN, Hsing A, Chanock SJ. A genome-wide association study of prostate cancer in West African men. AACR Annual Meeting. Abstract # 2552. April 6-10, 2013. Washington, DC. *Cancer Res. 2013;73(8 Suppl):Abstract nr 2552.*

5. Jia J, Collins I, Dzyadyk M, Thompson A, Cheuk A, Parikh H, **Wang Z**, Westlake C, Bosley A, Petersen G, Andresson T, Amundadottir L. Functional characterization of the pancreatic cancer TERT-CLPTM1L risk locus on chr5p15.33. AACR Annual Meeting. Abstract # 2556. April 6-10, 2013. Washington, DC. *Cancer Res. 2013;73(8 Suppl):Abstract nr 2556.*

6. Berndt SI, Skibola CF, Joseph V, Camp NJ, Nieters A, **Wang Z,** Cozen W, Monnereau A, Kelly RS, de Sanjose S, Linet MS, Riboli E, Vineis P, Hjalgrim H, Cerhan JR, Chanock SJ, Rothman N, Slager SL. Meta-analysis of genome-wide association studies identifies multiple loci associated with chronic lymphocytic leukemia. AACR Annual Meeting. Abstract # LB-23. April 6-10, 2013. Washington, DC. *Cancer Res. 2013;73(8 Suppl):Abstract nr LB-23.*

7. Savage SA, Mirabello L, **Wang Z**, Gastier-Foster J, Gorlick R, Khanna C, Flanagan AM, Tirabosco R, Andrulis IL, Wunder J, Gokgoz N, Patino-Garcia A, Sierrasesumaga L, Lecanda F, Kurucu N, Ilhan IE, Sari N, Serra M, Hattinger C, Picci P, Spector L, Barkauskas DA, Marina N, de Toledo SC, Petrilli S, Amary MF, Halai D, Thomas D, Douglass C, Meltzer P, Jacobs K, Chung CC, Berndt SI, Purdue MP, Caporaso NE, Tucker M, Rothman N, Landi MT, Silverman DT, Kraft P, Hunter DJ, Malats N, Kogevinas M, Wacholder S, Troisi R, Helman L, Fraumeni Jr JF, Yeager M, Hoover R, Chanock SJ. Genome-wide association study identifies novel loci associated with osteosarcoma. AACR Annual Meeting. Abstract # 4593. April 6-10, 2013. Washington, DC. *Cancer Res. 2013;73(8 Suppl):Abstract nr 4593.*

8. Hyland PL, Zhang H, Yang Q, Lin SW, Maeder D, Hu N, Tang ZZ, Su H, Wang L, Wang C, Ding T, Fan JH, Qiao YL, Wheeler W, Giffen C, Burdett L, **Wang Z**, Chanock SJ, Dawsey SM, Freedman ND, Abnet CC, Goldstein AM, Yu K, Taylor PR. Pathway analysis of genome-wide association study data highlights taste transduction and metabolic pathways and esophageal squamous cell carcinoma susceptibility. AACR Annual Meeting. Abstract # 22030. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr 22030.*

9. Wu C, **Wang Z**, Song X, Feng XS, Abnet CC, He J, Hu N, Zuo XB, Tan W, Zhang XJ, Freedman ND, Goldstein AM, Lin D, Taylor PR, Wang LD, Chanock SJ. Joint analysis of three genome-wide association studies of esophageal squamous cell carcinoma in Chinese populations reveals new susceptibility loci. AACR Annual Meeting. Abstract # 2204. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr 2204.*

10. Landi MT, Wang Y, McKay JD, Rafnar T, **Wang Z**, Timofeeva M, Broderick P, Stefansson K, Risch A, Chanock SJ, Christiani DC, Hung RJ, Brennan P, Houlston RS, Amos CI. Imputation from The 1000 Genomes Project identifies rare large effect variants of BRCA2-K3326X and CHEK2-I157T as risk factors for lung cancer; a study from the TRICL consortium. AACR Annual Meeting. Abstract # 942. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr 942.*

11. Shi J, Marconett C, Duan J, Hyland P, Li P, **Wang Z**, Wheeler W, Campan M, Huang J, Zhou W, Triche T, Amundadottir L, Hutchinson A, Chen PH, Zhou B, Chung B, Bertazzi PA, Bergen AW, Freedman M, Lee D, Siegmund K, Warner AC, Berman B, Pesatori AC, Borok Z, Consonni D, Chatterjee N, Tucker M, Caporaso N, Chanock SJ, Laird-Offringa IA, Landi MT. Characterizing the genetic basis of methylome diversity in histologically normal human lung tissue. AACR Annual Meeting. Abstract # 287. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr 287.*

12. Cerhan JR, Berndt SI, Vijai J, Ghesquières H, McKay J, Wang SS, **Wang Z**, Yeager M, Nieters A, Cox D, Monnereau A, Flowers C, De Roos AJ, Angela R. Brooks-Wilson AR, Qing Lan Q, Gianluca Severi G, Mads Melbye M, Rebecca D. Jackson RD, Teras LR, Purdue M, Vajdic C, Albanes D, Bertrand KA, Zeleniuch-Jacquotte A, Crouch S, Zhang Y, Vineis P, Slager SL, Smedby KE, Salles G, Skibola CF, Rothman N, Chanock SJ, on behalf of the NHL GWAS Project. Genome-wide association study identifies multiple susceptibility loci for diffuse large B-cell lymphoma. AACR Annual Meeting. Abstract # LB-272. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr LB-272.*

13. Vijai J, **Wang Z**, Berndt SI, Slager SL, Cerhan JR, Skibola C, Wang SS, Brooks-Wilson AR, de Sanjose S, Bracci PM, Melbye M, Glimelius B, Jackson RD, Cozen W, Becker N, Teras LR, Spinelli JJ, Turner J, Lan Q, Purdue MP, Bertrand KA, Offit K, Vineis P, Link BK, Giles GG, Zelenuich-Jacquotte A, Monnereau A, Ennas MG, Albanes D, Burdett L, Rothman N, Chanock SJ, Nieters A, on behalf of the NHL GWAS Consortium. A genome-wide association study suggests evidence of variants at 6p21.32 associated with marginal zone lymphoma. AACR Annual Meeting. Abstract # 5071. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr 5071.*

14. Skibola CF, Berndt SI, Cerhan JR, **Wang Z**, Vijai J, Conde L, de Bakker P, Wang SS, Vajdic CM, Birmann B, Slager SL, McKay J, Bracci PM, Nieters A, Lan Q, Brooks-Wilson AR, Linet MS, Albanes D, Spinelli JJ, Vermeulen RC, Purdue MP, Yaeger M, Teras LR, de Sanjose S, Monnereau A, Crouch S, Nee Foo JN, Hjalgrim H, Severi G, Link BK, Bertrand KA, Zhang Y, Smedby KE, Chanock SJ, Rothman N, NHL GWAS Consortium. Meta-analysis of genome-wide association studies identifies novel susceptibility loci for follicular lymphoma. AACR

Annual Meeting. Abstract # 5072. April 5-9, 2014. San Diego, CA. *Cancer Res. 2014;74(19 Suppl):Abstract nr 5072.*

15. Sung H, Yang HH, Zhang H, Yang Q, Hu N, Tang ZZ, Su H, Wang L, Wang C, Ding T, Fan JH, Qiao YL, Wheeler W, Giffen C, Burdett L, **Wang Z**, Lee MP, Chanock SJ, Dawsey SM, Freedman ND, Abnet CC, Goldstein AM, Yu K, Taylor PR, Hyland PL. Common genetic variants in epigenetic machinery genes and risk of upper gastrointestinal cancers. AACR Annual Meeting. Abstract # 4622. April 18-22, 2015. Philadelphia, PA. *Cancer Res. 2015;75(15 Suppl):Abstract nr 4622.*

16. Brown KM, Fang J, Jia J, **Wang Z**, Makowski M, Zhang T, Hoskins J, Choi J, Han Y, Zhang M, Mai Xu M, Peter Kanetsky P, Thorkell A, Petersen GM, Nathanson KL, Amos CI, Landi MT, Chanock SJ, Vermeulen M, Amundadottir LT. Functional characterization of a multicancer risk locus on chr5p15.33 reveals regulation of *TERT* by ZNF148. AACR Annual Meeting. Abstract # 4610. April 18-22, 2015. Philadelphia, PA. *Cancer Res. 2015;75(15 Suppl):Abstract nr 4610.*

17. **Wang Z**, Kanetsky PA, McGlynn KA, Bishop DT, Chung CC, Dalgaard MD, Grotmol T, Greene MH, Gupta R, Haugen TB, Litchfield K, Loud JT, Mitra N, Nielsen K, Turnbull C, Rajpert-DeMeyts E, Vardhanabhuti S, Wiklund F, Schwartz S, Chanock SJ, Nathanson KL, TECAC Consortium. Imputation and meta-analysis of five genome-wide association studies identify multiple new loci associated with testicular germ cell tumor. AACR Annual Meeting. Abstract # 843. April 18-22, 2015. Philadelphia, PA. *Cancer Res. 2015;75(15 Suppl):Abstract nr 843.* Role: First author

18. Machiela MJ, Hsiung CA, Shu XO, Seow WJ, **Wang Z**, Matsuo K, Hong YC, Seow A, Wu C, Hosgood HD, Chen K, Wang JC, Wen W, Wu T, Wong MP, Wu YL, Yang PC, Zhou B, Shin MH, Fraumeni JF, Zheng W, Lin D, Chanock SJ, Rothman N, Lan Q. Genetic variants associated with longer telomere length are associated with increased lung cancer risk among never-smoking women in Asia: A report from the Female Lung Cancer Consortium in Asia. AACR Annual Meeting. Abstract # 4596. April 18-22, 2015. Philadelphia, PA. *Cancer Res. 2015;75(15 Suppl):Abstract nr 4596.*

19. **Wang Z**, Yasui Y, NessKK, Wilson CL, Srivastava DK, Rusch M, Thrasher A, Hudson MM, Jinghui, Robison LL. Telomere length and accelerated aging in adult survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. ICHG Annual Meeting. Kyoto, Japan. April 3-7, 2016. Oral presentation. Role: First author

20. Lan Q, **Wang Z**, Seow WJ, Shiraishi K, Shen H, Hsiung CA, Matsuo K, Jie Liu J, Chen K, Yamji T, Yang Y, Chang IS, Wu C, Yeager M, Kohno T, Zheng W, Shu XO, Yang PC, Wu T, Lin D, Zhou B, Yu J Kubo M, Chanock SJ, Rothman N. Meta-analysis of genome-wide association studies identifies multiple lung cancer susceptibility loci in never-smoking Asian women. AACR Annual Meeting. Abstract # 2568. April 16-20, 2016. New Orleans, LA. *Cancer Res. 2016;76(14 Suppl):Abstract nr 2568.*

21. Morton LM, Sampson JN, Armstrong GT, Chen, TH, Hudson M, Karlins E, Dagnall CL, Li S, Wilson CL, Srivastava K, Wei Liu, Kang G, Oeffinger K, Henderson TO, Moskowitz CS, Gibson TM, Merino DM, Wong JR, Hammond S, Neglia JP, Turcotte LM, Miller J, Bowen L, Wheeler WA, Leisenring WM, Whitton JA, Burdette L, Hicks BD, Machiela MJ, Vogt A, **Wang Z**, Yeager M, Neale G, Lear M, Strong LC, Yasui Y, Stovall M, Weathers RE, Smith SA, Howell R, Davies SM, Radloff GA, de González AB, Inskip PD, Rajaraman P, Fraumeni JF, Bhatia S, Chanock SJ, Tucker MA, Robison LL. Genome-wide association study identifies two susceptibility loci that modify radiation-related risk for breast cancer after childhood cancer: A report from the Childhood Cancer Survivor Study and St. Jude Lifetime Cohort. AACR Annual

Meeting. Abstract # 2691. April 16-20, 2016. New Orleans, LA. *Cancer Res. 2016;76(14 Suppl):Abstract nr 2691.*

22. **Wang Z**, Wilson CL, Easton J, Hedges D, Liu Q, Wu G, Rusch M, Edmonson M, Levy S, Lanctot JQ, Caron E, Shelton K, Currie K, Lear M, Mulder HL, Yergeau D, Rosencrance C, Vadodaria B, Sapkota Y, Brooke RJ, Moon W, Rampersaud E, Ma X, Wang S, Chang TC, Rice S, Thrasher A, Patel A, Pepper C, Zhou X, Chen X, Chen W, Jones A, Boone B, Srivastava DK, Kesserwan CA, Nichols KE, Downing JR, Hudson MM, Yasui Y, Robison LL, Zhang J. Germline mutations in cancer predisposition genes and risk for subsequent neoplasms among long-term survivors of childhood cancer in the St. Jude Lifetime Cohort. AACR Annual Meeting. Abstract # 3001. Washington, DC. April 1-5, 2017. *Cancer Res 2017;77(13 Suppl):Abstract nr 3001.* Role: First author

23. Graff RE, Hoffmann TJ, Passarelli MN, Emami NC, Sakoda LC, Jorgenson E, Habel LA, Shan J, Ranatunga DK, Quesenberry CP, Chao CR, Ghai NR, Aaronson D, Presti J, Nordström T, **Wang Z**, Berndt SI, Chanock SJ, Mosley JD, Klein RJ, Middha M, Lilja H, Melander O, Kvale MN, Kwok PY, Schaefer C, Risch N, Risch N, Van Den Eeden SK, Witte JS. Genetic reclassification of prostate-specific antigen levels for personalized prostate cancer screening. AACR Annual Meeting. Abstract # 1297. Wasington, DC. April 1-5, 2017. *Cancer Res. 2017;77(13 Suppl):Abstract nr 1297.*

24. Kinnersley B, Melin BS, Barnholtz-Sloan JS, Wrensch MR, Johansen C, Il'yasova D, Ostrom Q, Glioma International Case Control Study (GICC), Labreche K, Eckel-Passow JE, Decker PA, Labussière M, Idbaih A, Hoang-Xuan K, Di Stefano AL, Mokhtari K, Delattre JY, Galan P, Gousias K, Schramm J, Schoemaker MJ, Fleming SJ, Herms S, Heilmann S, Nöthen MM, Wichmann HE, Schreiber S, Swerdlow A, Lathrop M, Simon M, Sanson M, Rajaraman P, Chanock S, Linet M, **Wang Z**, Yeager M, Lai RK, Claus EB, Olson SH, Jenkins RB, Houlston RS, Bondy ML. Genome-wide association study of glioma reveals specific differences in genetic susceptibility to glioblastoma and non-glioblastoma. AACR Annual Meeting. Abstract # 1302. Wasington, DC. April 1-5, 2017. *Cancer Res 2017;77(13 Suppl):Abstract nr 1302.*

25. Morton LM, Sampson JN, Armstrong GT, Chen T, Hudson MM, Karlins E, Dagnall CL, Li S, Wilson CL, Srivastava DK, Liu W, Kang G, Oeffinger KC, Henderson TO, Moskowitz CS, Gibson TM, Merion DM, Wong JR, Hammond S, Neglia JP, Turcotte LM, Miller J, Bowen L, Wheeler WA, Leisenring WM, Whitton JA, Burdette L, Chung C, Hicks BD, Jones K, Machiela MJ, Vogt A, **Wang Z**, Yeager M, Neale G, Lear M, Strong LC, Yasui Y, Stovall M, Weather RE, Smith SA, Howell R, Davies SM, Radloff GA, Berrington de Gonzalez A, Inskip PD, Rajarman P, Fraumeni Jr JF, Bhatia S, Chanock SJ, Tucker MA, Robison LL. Genome-wide association study of meningioma as a subsequent neoplasm: A report from the Childhood Cancer Survivor Study (CCSS) and St. Jude Lifetime Cohort (SJLIFE). AACR Annual Meeting. Abstract #2691. New Orleans, LA. April 16-20, 2016. Oral presentation. *J Clin Oncol 34(15_suppl):10510-10510.*

26. Morton LM, Sampson JN, Armstrong GT, Chen T, Hudson MM, Karlins E, Dagnall CL, Li S, Wilson CL, Srivastava DK, Liu W, Kang G, Oeffinger KC, Henderson TO, Moskowitz CS, Gibson TM, Merion DM, Wong JR, Hammond S, Neglia JP, Turcotte LM, Miller J, Bowen L, Wheeler WA, Leisenring WM, Whitton JA, Burdette L, Chung C, Hicks BD, Jones K, Machiela MJ, Vogt A, **Wang Z**, Yeager M, Neale G, Lear M, Strong LC, Yasui Y, Stovall M, Weather RE, Smith SA, Howell R, Davies SM, Radloff GA, Berrington de Gonzalez A, Inskip PD, Rajarman P, Fraumeni Jr JF, Bhatia S, Chanock SJ, Tucker MA, Robison LL. Genome-wide association study of meningioma as a subsequent neoplasm: A report from the Childhood Cancer Survivor Study (CCSS) and St. Jude Lifetime Cohort (SJLIFE). ASCO Annual Meeting. Abstract # 10510. Chicago, IL. June 3-7, 2017. *J Clin Oncol. 34, 2016 (suppl; abstr 10510).*

27. Brooke RJ, Chemaitilly W, Wilson CL, Krasin MJ, Li Z, Im C, Morton LM, Wu G, **Wang Z**, Chen W, Howell RM, Armstrong GT, Bhatia S, Chanock SJ, Zhang J, Green DM, Sklar CA, Hudson MM, Robison LL, Yasui Y. A high-risk genetic profile for premature menopause (PM) in childhood cancer survivors (CCS) exposed to gonadotoxic therapy: A report from the St. Jude Lifetime Cohort (SJLIFE) and Childhood Cancer Survivor Study (CCSS). ASCO Annual Meeting. Abstract # 10502. Chicago, IL. June 2-6, 2017. *J Clin Oncol. 35, 2017 (suppl; abstr 10502)*.

28. Sapkota Y, Turcotte L, Ehrhardt MJ, Howell R, Arnold M, Wilson C, Leisenring W, **Wang Z**, Sampson J, Weathers R, Smith SA, Shelton K, Liu Q, Tucker M, Chanock SJ, Zhang J, Hudson MM, Neglia JP, Armstrong GT, Robison LL, Morton L, Bhatia S, Yasui Y. Genome-wide association study among five-year survivors of childhood cancers identifies NCS1 as a risk locus for subsequent basal-cell carcinoma. AACR Annual Meeting. Chicago, IL. April 14-18, 2018.

29. Newman S, Zhou X, McLeod C, Rusch M, Wu G, Sioson E, Wang S, Michael JR, Patel A, Edmonson M, Frantz A, Chang T, Li Y, Davidson RI, Ma S, McGuire I, Robison N, Tang X, Palmer L, Suh E, Tanner L, McMurry J, Perry K, **Wang Z**, Wilson C, Cheng Y, Weiss M, Robison LL Yasui Y, Nichols K, Ellison D, Downing JR, Zhang J. Access, visualize and analyze 5,000 whole-genomes from pediatric cancer patients on St. Jude Cloud. AACR Annual Meeting. Chicago, IL. Abstract # 922. April 14-18, 2018. Oral presentation. *Clin Cancer Res. 2018 Jul;78(13 Suppl):Abstract nr 922.*

30. **Wang Z**, Wilson CL, Liu Q, Easton J, Mulder H, Rusch M, Edmonson M, Levy S, Patel A, Shao Y, Chang T, Rice SV, Sapkota Y, Brooke RJ, Moon W, Rampersaud E, Ma X, Pepper C, Zhou X, Chen X, Chen W, Jones A, Boone B, Ehrhardt MJ, Howell RM, Phillips NS, Lewis C, Kesserwan CA, Wu G, Nichols KE, Downing JR, Hudson MM, Zhang J, Yasui Y, Robison LL. Monogenic and polygenic associations with subsequent breast cancer risk in survivors of childhood cancer: The St. Jude Lifetime Cohort Study (SJLIFE). AACR Annual Meeting. Abstract # 3007. Chicago, IL. April 14-18, 2018. Oral presentation. *Clin Cancer Res. 2018 Jul;78(13 Suppl):Abstract nr 3007.* Role: First author

31. 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.

32. 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. Abstract # 242. April 14-18, 2018. Chicago, IL. *Cancer Res. 2018;78(13 Suppl):Abstract nr 242.*

33. Brooke RJ, Chemaitilly W, Wilson CL, Krasin MJ, Li Z, Im C, Morton LM, Wu G, **Wang Z**, Chen W, Howell RM, Armstrong GT, Bhatia S, Chanock SJ, Zhang J, Green DM, Sklar CA, Hudson MM, Robison LL, Yasui Y. A high-risk genetic profile for premature menopause (PM) in childhood cancer survivors (CCS) exposed to gonadotoxic therapy: A report from the St. Jude Lifetime Cohort (SJLIFE) and Childhood Cancer Survivor Study (CCSS). 15th International Conference on Long-Term Complications of Treatment of Children and Adolescents for Cancer. Atlanta, GA. June 15-17, 2017. Oral presentation

34. Ehrhardt MJ, Howell CR, Hale K, Baassiri MJ, Rodriquez 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). 50th SIOP Annual Congress. Kyoto, Japan. November 16-19, 2018. *Pediatr Blood Cancer 2018 Nov;65(s2):e27455.*

35. Ehrhardt M, Howell C, Hale K, Baassiri M, Rodriguez C, Wilson C, Joshi S, Lemond T, Shope S, Howell R, **Wang Z**, Srivastava D, Mulrooney D, Zhang J, Robison L, Ness K, Hudson M. Subsequent breast cancer in female childhood cancer survivors in the St. Jude Lifetime Cohort Study (SJLIFE). NASLCCC Annual Meeting. Oral # O03. Atlanta, GA. June 20-22, 2019. Oral presentation.

36. Zhou X, McLeod C, Newman S, **Wang Z**, Rusch M, Birch K, Macias M, Sunny J, Wu G, Sioson E, Lei S, Michael RJ, Patel A, Edmonson MN, Rice SV, Frantz A, Suh E, Perry K, Wilson CL, Robison LL, Yasui Y, Nichols KE, Armstrong GT, Downing JR, Zhang J. Visualize 10,000 whole-genomes from pediatric cancer patients on St. Jude Cloud. AACR Annual Meeting. Abstract # 3671. March 29-April 3, 2019. Atlanta, GA. *Cancer Res (2019) 79 (13_Supplement): 3671.*

37. Zhang R, Xue Y, Zhu L, Kang M, Xu X, Huang J, Rong L, Dai J, Hu Z, Fang Y, Wang Z. Germline mutations in cancer predisposition genes are prevalent among survivors of childhood acute lymphoblastic leukemia in a Chinese population. AACR Annual Meeting. Abstract # 1685. March 29-April 3, 2019. Atlanta, GA. *Cancer Res (2019) 79 (13_Supplement): 1685.*

38. **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, Yausi 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. Abstract # 4178. March 29-April 3, 2019. Atlanta, GA. Role: First & corresponding author. *Cancer Res (2019) 79 (13_Supplement): 4178.*

39. 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. Abstract # 4909. March 29-April 3, 2019. Atlanta, GA. *Cancer Res (2019) 79 (13_Supplement): 4909.*

40. Maciaszek JL, Wu G, Hamilton K, McGee RB, **Wang Z**, Nuccio R, Hines-Dowell S, Harrison L, Gerhardt EL, Ouma A, Newman S, Patel A, Nakitandwe J, Azzato E, Pappo AS, Shurtleff SA, Ellison DW, Downing JR, Hudson MM, Robison LL, Santan V, Zhang JH, Nichols KE, Kesserwan CA. Increased prevalence of germline monoallelic RECQL4 mutations in children with cancer. AACR Annual Meeting. Abstract # 3651. March 29-April 3, 2019. Atlanta, GA. *Cancer Res (2019) 79 (13_Supplement): 3651.*

41. **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 form 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. *J Clin Oncol 37, 2019 (suppl; abstr 10060).*

42. Sapkota Y, Liu Q, Shelton KC, Wang X, Wilson CL, **Wang Z**, Mulrooney DA, Jefferies JL, Oeffinger KC, Morton LM, Zhang Z, Armstrong GT, Bhatia S, Hudson MM, Robison LL, Yasui Y. Genome-wide association study using whole-genome sequencing to identify a novel locus associated with cardiomyopathy risk in adult survivors of childhood cancer: Utility of a 2-stage analytic approach. ASCO Annual Meeting. Abstract # 1516; poster # 10. Chicago, IL. May 31-June 4, 2019. *J Clin Oncol 37, 2019 (suppl; abstr 1516).* (b) NASLCCC Annual Meeting. Atlanta, GA. June 20-22, 2019.

43. 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 its childhood cancer survivors: An analysis of 12 anthropometric and cardiometabolic phenotypes in the St. Jude Lifetime Cohort Study (SJLIFE). NASLCCC Annual Meeting. Oral # O31. Atlanta, GA. June 20-22, 2019. Oral presentation.

44. 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.

45. 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.

46. 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.

47. 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. PgmNr 2700. Houston, TX. October 15-19, 2019.

48. 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

49. **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

50. 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.

51. Flasch DA, Davis E, Rice SV, Mulder H, Dong L, Mostafavi R, Wilson CL, Easton J, **Wang Z**, Nichols KE, Armstrong GT, Yasui Y, Robison LL, Hudson MM, Zhang J. Germline pathogenic

structural variants in 8,400 whole genomes of pediatric cancer patients and survivors. ASHG Annual Meeting. Abstract # 1214. October 27-30, 2020.

52. Zhou X, Bhakta N, Wang J, Sioson E, Patel J, Shelton K, **Wang Z**, Lei S, Gout AM, Wilson CL, Leisenring W, Bhatia S, Yasui Y, Hudson MM, Armstrong GT, Robison LL, Zhang J. The St. Jude Survivorship Portal links whole-genome genetic data with clinical therapy and outcome phenotypes for 7302 pediatric cancer survivors. AACR Annual Meeting 2021. Abstract # 1198. San Diego, CA. April 24-29, 2020. *Cancer Res (2020) 80 (16_Supplement): 1198.*

53. Sapkota Y, Qin N, Ehrhardt MJ, **Wang Z**, Wilson CL, Estepp 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. *J Clin Oncol 38: 2020 (suppl; abstr 10514).*

54. 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

55. 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

56. Hagiwara K, **Wang Z**, Zubair H, Easton J, Mulder HL, Ma X, Ness KK, Li Z, Wilson L, Yasui Y, Hudson MM, Robison LL, Zhang J. Accelerated clonal hematopoiesis in survivors of childhood cancer: A report for the St. Jude Lifetime Cohort Study. AACR Annual Meeting 2021. Abstract # 3701. Virtual. April 10-15; May 17-21, 2021. *Cancer Res 2021;81:13_suppl;abstr 3701.*

57. Williams AM, 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. Poster presentation. *J Clin Oncol 39, 2021 (suppl 15; abstr 10045).*

58. Goodenough C, Diouf B, Yang W, Sapkota Y, Finch E, Partin R, Wogksch M, Hudson M, Robison L, Jeha S, **Wang Z**, Evans W, Ness KK. CEP72 Genotype is associated with prevalent motor neuropathy in survivors of childhood Acute Lymphoblastic leukemia. 53rd SIOP 2021 Annual Conference. Abstract # 1712. Virtual. October 21-24, 2021. Oral presentation. *Pediatr Blood Cancer 2021 Nov;68(S5):e29349*

59. Dong Q, Song N, Chen C, Li Z, Easton J, Mulder H, Zhang J, Neale G, Walker E, Huang IC, Ness KK, Hudson MM, Robison LL, **Wang Z**. Epigenome-wide association study of blood lipids among survivors of childhood cancer in the St. Jude Lifetime Cohort. AACR Annual Meeting 2022. Abstract # 3764. New Orleans, LA. April 8-13, 2022. Role: Senior author. Oral presentation.

60. Chen C, Song N, Sun X, Dong Q, Li Z, Wang H, Bhatia S, Mulder H, Easton J, Zhang J, Yasui Y, Armstrong GT, Ness KK, Hudson MM, Robison LL, **Wang Z**. HLA and non-HLA associations with childhood and adolescent Hodgkin lymphoma risk. AACR Annual Meeting 2022. Abstract # 6344. New Orleans, LA. April 8-13, 2022. Oral presentation. Role: Senior author. *Cancer Res (2022) 82 (12_Supplement): 6344.*

61. Hagiwara K, **Wang Z**, Zubair H, Easton J, Mulder HL, Ma X, Ness KK, Li Z, Wilson L, Yasui Y, Hudson MM, Robison LL, Zhang J. Accelerated clonal hematopoiesis in survivors of childhood cancer: A report for the St. Jude Lifetime Cohort Study. AACR Annual Meeting. New Orleans, LA. April 8-13, 2022.

62. Goodenough CG, Wogksch MD, Kundu M, Lear M, Thomas PG, Srivastava DK, **Wang Z**, Armstrong GT, Hudson MM, Robison LL, Ness KK. Associations between biomarkers of cellular senescence and inflammation and exercise capacity among adult survivors of childhood cancer. 1st International Symposium on Late Complications after Childhood Cancer (ISLCCC). Abstract # 009. July 8-9, 2022. Oral presentation.

63. Ware ME, Delaney A, Krull KR, Brinkman TM, Armstrong GT, Wilson CL, Mulrooney DA, **Wang Z**, Lanctot JQ, Krull MK, Partin RE, Shelton KC, Srivastava DK, Hudson MM, Robison L, Ness KK. Cancer-related worry as a predictor of 5-year physical activity level in childhood cancer survivors. Abstract # EP767; 1130. 54th SIOP Congress. Barcelona, Kingdom of Spain. September 28-October 1, 2022. *Pediatr Blood Cancer. 2022 Nov;69:SI(S504).*

64. Horan MR, Srivastava DK, Bhakta N, Brinkman TM, **Wang Z**, Krull KR, Ness KK, Robison LL, Hudson MM, Huang IC. Impact of chronic health condition burden on subsequent quality-of-life among adult survivors of childhood cancer: A report from St. Jude Lifetime Cohort Study (SJLIFE). 54th SIOP Congress. Barcelona, Kingdom of Spain. September 28-October 1, 2022. Oral presentation. *Pediatr Blood Cancer 2022 Nov;69(5).*

65. Chen C, Qin N, Wang H, Song N, Howell R, Mulder HL, Easton J, Zhang J, Ness KK, Hudson MM, Robison LL, Yasui Y, Wang H, Mulrooney DA, **Wang Z**. Pathogenic germline variants in DNA repair genes and cardiac outcomes among long-term survivors of childhood cancer. 54th SIOP Congress. Oral # O229; abstract # 211. Barcelona, Kingdom of Spain. September 28-October 1, 2022. Oral presentation. Role: Senior & corresponding author. *Pediatr Blood Cancer 2022 Nov;69(5).*

66. Horan MR, Srivastava DK, Bhakta N, Brinkman TM, **Wang Z**, Krull KR, Ness KK, Robison LL, Hudson MM, Huang I-C. Associations between chronic health condition burden and quality-of-life among adult survivors of childhood cancer: A health utility approach. 29th ISOQOL Annual Meeting. Abstract # 3071. Prague, Czech Republic. October 19-22, 2022.

67. Horan M, Srivastava DK, Bhakta N, Brinkman T, **Wang Z**, Krull K, Ness KK, Robison LL, Hudson MM, Huang IC. Associations between chronic health condition burden and quality-of-life among adult survivors of childhood cancer: A health utility approach. 9th ISOQOL Annual Meeting. Abstract # 3071. Prague, Czech Republic. October 19-22, 2022.

68. Im C, Sharafeldin N, Yuan Y, Sapkota Y, **Wang Z**, Arnold MA, Armstrong GT, Hudson MM, Ness KK, Robison LL, Bhatia S, Neglia JP, Turcotte LM, Yasui Y. Pan-cancer polygenic risk distinctly contributes to prediction of heterogeneous subsequent malignancies across treatment profiles in survivors of childhood cancer. ASHG Annual Meeting. Abstract # PB1179. Los Angeles, CA. October 25-29, 2022.

69. Chen C, Qin N, Wang M, Tithi S, Hui Y, Chen W, Wu G, Kennetz D, Edmonson MN, Rusch MC, Easton J, Mulder H, Song N, Dong Q, Shelton K, Ehrhardt M, Nichols K, Leisenring W,

Yasui Y, Bhatia S, Armstrong GT, Ness KK, Hudson MM, Srivastava DK, Wang H, Zhang J, Robison LL, **Wang Z**. Cancer predisposition variants and subsequent-malignancy-related late-mortality among long-term survivors of childhood cancer. ASHG Annual Meeting. Los Angeles, CA. October 25-29, 2022. Oral presentation. Role: Senior author.

70. Chen C, Qin N, Wang M, Tithi S, Hui Y, Chen W, Wu G, Kennetz D, Edmonson MN, Rusch MC, Easton J, Mulder H, Song N, Dong Q, Shelton K, Ehrhardt M, Nichols K, Leisenring W, Yasui Y, Bhatia S, Armstrong GT, Ness KK, Hudson MM, Srivastava DK, Wang H, Zhang J, Robison LL, **Wang Z**. Cancer predisposition variants and subsequent-malignancy-related late-mortality among long-term survivors of childhood cancer. American Society of Hematology (ASH) Annual Meeting. New Orleans, LA. December 10-13, 2022. Role: Senior & corresponding author. Oral presentation.

71. Chen C, Qin N, Song N, Wang H, Armstrong GT, Ness KK, Hudson MM, Zhang J, Robison LL, Im C, **Wang Z**. Rare high-penetrance and common low-penetrance variants associated with risk of pediatric Acute Lymphoblastic leukemia. 12th AACR and JCA (AACR-JCA) Joint Conference: Breakthroughs in Cancer Research - Translating Knowledge into Practice. Maui, Hawaii. December 10-14, 2022. Role: Senior & corresponding author

72. Ware ME, Delaney A, Krull KR, Brinkman TM, Armstrong GT, Wilson CL, Mulrooney DA, **Wang Z**, Lanctot JQ, Krull MK, Partin RE, Shelton KC, Srivastava DK, Hudson MM, Robison L, Ness KK. Cancer-related worry as a predictor of 5-year physical activity level in childhood cancer survivors. 9th Annual Comprehensive Cancer Center Postdoctoral Symposium. St. Jude Children's Research Hospital. Memphis, TN. January 20, 2023.

73. Williams AM, Dong Q, Phillips N, Erhardt MJ, Srivastava DK, Salehabadi SM, Yasui Y, Ness KK, Hudson MM, Robison LL, Krull KR, **Wang Z**. Epigenetic age acceleration and neurocognitive function among long-term survivors of pediatric cancer: A report from the St. Jude Lifetime Cohort. ICCTF Annual Conference. New Orleans, LA. January 30-31, 2023. Oral presentation.

74. Dong Q, Das S, Chen C, Easton J, Mulder HL, Walker E, Neale G, Srivastava DK, Huang IC, Zhang J, Hudson MM, Robison LL, Ness KK, Song N, **Wang Z**. Variations of blood DNA methylation associated with cancer treatment exposures among childhood cancer survivors of African ancestry. AACR Annual Meeting. Orlando, FL. April 14-19, 2023. Role: Senior & corresponding author.

75. Matt G, Sioson E, Patel J, Wang J, Paul R, Reilly C, Lu C, Shelton K, Liu Q, Qiu W, Im C, **Wang Z**, Wilson CL, Bhakta N, Ness KK, Armstrong GT, Hudson MM, Robison LL, Zhang J, Yasui Y, Zhou X. St. Jude Survivorship portal: A data portal for storing, analyzing, and sharing large and complex cancer survivorship datasets. Abstract # 4513. AACR Annual Meeting. Orlando, FL. April 14-19, 2023. Oral presentation. *Cancer Res (2023) 83(7_Supplement):4513*

76. Chen C, Dong Q, Qin N, Song N, Easton J, Mulder HL, Walker E, Neale G, Finch ER, Li Q, Yasui Y, Mulrooney DA, Hudson MM, Ness KK, Zhang J, Chen X, Wang H, Robison LL, **Wang Z**. Monocyte-specific epigenetic age acceleration and cardiomyopathy risk among survivors of childhood cancer. AACR Annual Meeting. Orlando, FL. April 14-19, 2023. Senior & corresponding author.

77. Plonski NM, Chen C, Dong Q, Qin N, Song N, Easton E, Mulder H, Walker E, Neale G, Zhang J, Krull KR, Ness KK, Hudson MM, Robison LL, Huang IC, **Wang Z**. Racial disparity and roles of social determinants of health in epigenetic age acceleration among survivors of childhood

cancer. Abstract # 3503. AACR Annual Meeting. Orlando, FL. April 14-19, 2023. Role: Senior & corresponding author. Oral presentation.

78. Chen C, Qin N, Song N, Wang H, Armstrong GT, Ness KK, Hudson MM, Zhang J, Robison LL, Im C, **Wang Z**. Rare high-penetrance and common low-penetrance variants associated with risk of pediatric Acute Lymphoblastic leukemia. AACR Annual Meeting. April 14-19, 2023. Role: Senior & corresponding author.

79. Dong Q, Das S, Chen C, Easton J, Mulder HL, Walker E, Neale G, Srivastava DK, Zhang J, Hudson MM, Robison LL, Ness KK, Song N, **Wang Z**. Variations of blood DNA methylation associated with cancer treatment exposures among childhood cancer survivors of African ancestry. AACR Annual Meeting. Abstract # 4514. Orlando, FL. April 14-19, 2023. Role: Senior & corresponding author.

80. Wogksch M, Bass J, Sapkota Y, Dhaduk R, Sirvastava K, Stewart C, **Wang Z**, Goodenough C, Ware M, Krull K, Hudson M, Robison L, Ness KK. Associations between aminoglycoside antibiotic treatment, hearing loss, vestibular function, physical activity, and quality of life in adult survivors of childhood cancer. ACSM Annual Meeting. Abstract # 2860. Denver, CO. May 30-June 2, 2023. Oral presentation.

81. Ware ME, Goodenough CG, Wogksch MD, Delaney A, Krull KR, Brinkman TM, Armstrong GT, Wilson CL, Mulrooney DA, **Wang Z**, Lanctot JQ, Krull MK, Partin RE, Shelton KC, Srivastava DK, Hudson MM, Robison LL, Ness KK. Associations between perceived cancer impact and objectively measured physical activity in survivors of childhood cancer. Abstract # 875. ACSM Annual Meeting. Denver, CO. May 30-June 2, 2023.

82. Streck B, Hyun G, Armstrong GT, Belsky DW, Ehrhardt ME, Hudson MM, Green PA, Robison LL, Tonorezos T, Yasui Y, **Wang Z**, Wilson CL, Brinkman TM, Ness KK, Guida JL. Associations between psychosocial and lifestyle factors and biological age acceleration among long-term survivors of childhood cancer: A prospective study from the St. Jude Lifetime Cohort. Oral # 28; abstract # 10049; poster # 355. ASCO Annual Meeting. Chicago, IL. June 2-6, 2023. Oral presentation. *J Clin Oncol 41, 2023 (suppl 16; abstr 10049).*

83. Wilson CL, Dhaduk R, Zhou X, Gavriel M, Yasui Y, Im C, Armstrong GT, Dixon SB, Sapkota Y, **Wang Z**, Hudson MM, Robison LL, Ness KK. Influence of genetic predisposition and lifestyle on modifiable cardiovascular risk factors among survivors of childhood cancer. Abstract # 10061. ASCO Annual Meeting. Chicago, IL. June 2-6, 2023. *J Clin Oncol 41, 2023 (suppl 16; abstr 10061).*

84. Wogksch MD, Bass J, Sapkota Y, Dhaduk R, Srivastava DK, Stewart C, **Wang Z**, Goodenough CG, Ware ME, Krull KR, Hudson MM, Robison LL, Ness KK. Associations between aminoglycoside antibiotic treatment, hearing loss, vestibular function, physical activity, and quality of life in adult survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. ISLCCC Conference. Poster # P-18. June 15-17, 2023. Atlanta, GA. Oral presentation.

85. Matt G, Sioson E, Patel J, Wang J, Paul R, Reilly C, Lu C, Shelton K, Liu Q, Qiu W, Im C, **Wang Z**, Wilson CL, Bhakta N, Ness KK, Armstrong GT, Hudson MM, Robison LL, Zhang J, Yasui Y, Zhou X. St. Jude Survivorship Portal: A data portal for storing, analyzing, and sharing large and complex cancer survivorship datasets. 2nd ISLCCC Conference. Poster # P-53. June 15-17, 2023. Atlanta, GA.

86. Chen C, Qin N, Wang M, Tithi SS, Hui Y, Chen W, Wu G, Kennetz D, Edmonson MN, Rusch MC, Thrasher A, Easton J, Mulder HL, Song N, Dong Q, Plonski NM, Shelton K, Im C,

Ehrhardt MJ, Nichols KE, Howell R, Leisenring WM, Yasui Y, Bhatia S, Armstrong GT, Ness KK, Hudson MM, Zhang J, Wang H, Srivastava DK, Robison LL, **Wang Z**. Cancer predisposition variants and late-mortality from subsequent malignant neoplasms among long-term survivors of childhood cancer. 2nd ISLCCC Conference. Abstract # 2; oral O26. Atlanta, GA. June 15-17, 2023. Role: Senior author. Oral presentation.

87. Choi J, Nusloch M, Horan M, Ehrhardt MJ, **Wang Z**, Armstrong GT, Ness KK, Hudson MM, Huang IC. Comparing content coverage among neighborhood-level deprivation measures: A scoping review. 2nd ISLCCC Conference. Poster # P-80. Atlanta, GA. June 15-17, 2023.

88. Dong Q, Chen C, Song N, Qin N, Plonski NM, Finch E, Shelton K, Easton J, Mulder H, Plyler E, Neale G, Walker E, Li Q, Huang IC, Zhang J, Wang H, Hudson MM, Robison LL, Ness KK, **Wang Z**. Distinct DNA methylation signatures associated with blood lipids as exposures or outcomes among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. 2nd ISLCCC Conference. Poster # P-20. Atlanta, GA. June 15-17, 2023. Role: Senior author.

89. Goodenough CG, Dong Q, Easton J, Mulder H, Walker E, Neale G, Bagga P, Srivastava DK, Yasui Y, Sapkota Y, Hudson MM, Robison LL, Ness KK, **Wang Z**. Persistent variations in blood DNA methylation are associated with skeletal muscle health deficits in adult survivors of childhood cancer. 2nd ISLCCC Conference. Abstract # 3. Atlanta, GA. June 15-17, 2023. Role: Senior author.

90. Plonski NM, Chen C, Dong Q, Qin N, Song N, Finch E, Easton J, Mulder H, Walker E, Neale G, Zhang J, Krull KR, Robison LL, Ness KK, Hudson MM, Wang H, Huang IC, **Wang Z**. Racial disparity in epigenetic age acceleration among adult survivors of childhood cancer: A report from the St. Jude Lifetime Cohort. 2nd ISLCCC Conference. Oral # O30. Atlanta, GA. June 15-17, 2023. Role: Senior author. Oral presentation.

91. Streck B, Hyun G, Armstrong GT, Belsky DW, Ehrhardt ME, Hudson MM, Green PA, Robison LL, Tonorezos T, Yasui Y, **Wang Z**, Wilson CL, Brinkman TM, Ness KK, Guida JL. Associations between psychosocial and lifestyle factors and biological age acceleration among long-term survivors of childhood cancer: A prospective study from the St. Jude Lifetime Cohort. 2nd ISLCCC Conference. Abstract # #28. Atlanta, GA. June 15-17, 2023. Oral presentation.

92. Ware M, Goodenough CG, Wogksch MD, Delaney A, Krull KR, Brinkman TM, Armstrong GT, Wilson CL, Mulrooney DA, **Wang Z**, Lanctot JQ, Krull MK, Partin RE, Shelton KC, Srivastava DK, Hudson MM, Robison LL, Ness KK. Associations between perceived cancer impact and objectively measured physical activity in survivors of childhood cancer. 2nd ISLCCC Conference. Poster # P-42. Atlanta, GA. June 15-17, 2023.

93. Wilson CL, Dhaduk R, Zhou X, Gavriel M, Yasui Y, Im C, Armstrong GT, Dixon SB, Sapkota Y, **Wang Z**, Hudson MM, Robison LL, Ness KK. Influence of genetic predisposition and lifestyle on modifiable cardiovascular risk factors among survivors of childhood cancer. 2nd ISLCCC Conference. Oral # 4. Atlanta, GA. June 15-17, 2023. Oral presentation.

94. Dong Q, Chen C, Song N, Mulder H, Easton J, Walker E, Kang G, Armstrong GT, Ness KK, Hudson MM, Huang IC, **Wang Z**. Educational attainment and variation of blood DNA methylation among survivors of childhood cancer: A bidirectional causal inference using polygenic scores. ASHG Annual Meeting. Poster # BP5022. Washington, DC. November 1-5, 2023.

95. Chen C, Zhang X, Dong Q, Mulder HL, Easton J, Ma X, Zhang J, Yang J, Nichols KE, Armstrong GT, Ness KK, Hudson MM, Wang H, Chatterjee N, Im C, **Wang Z**. Pleiotropic

GATA3 locus is associated with multiple childhood cancers: Harnessing the existing data from the St. Jude Lifetime Cohort and the Childhood Cancer Survivor Study for genetic etiology research. AACR Annual Meeting. Oral # 6618. San Diego, CA. April 5-10, 2024. Role: Senior author. Oral presentation.

96. Dong Q, Chen Y, Zhang X, Easton J, Mulder H, Walker E, Neale G, Shelton K, Dixon SB, Zhang J, Armstrong GT, Hudson MM, Ness KK, **Wang Z**. Epigenetic inflammation scores for C-reactive protein and interleukin-6 associate with adverse cardiometabolic and cardiac outcomes among survivors of childhood cancer. AACR Annual Meeting. Abstract # 2235; poster # 9; oral # 2235. San Diego, CA. April 5-10, 2024. Role: Senior & corresponding author. Oral presentation.

97. Hubbard AK, Zhou W, Boyce C, Khan J, Hudson MM, Ness KK, **Wang Z**, Janeway KA, Lupo PJ, Morton LM, Chanock SJ, Grunewalkd TGP, Delattre O, Machiela MJ, Ewing Sarcoma Germline Genetics Group. Multiple new Ewing sarcoma susceptibility loci expand knowledge of germline genetic etiology and nominate mechanisms of risk. AACR Annual Meeting. Poster # 6148; oral 6148. San Diego, CA. April 5-10, 2024. Oral presentation.

98. Li Q, Pan Y, Zhang X, Plonski NM, Cheng C, Dong Q, Shelton K, Easton J, Mulder HL, Zhang J, Neale G, Walker E, Srivastava DK, Armstrong GT, Ness KK, Hudson MM, Huang IC, **Wang Z**. DNA methylation based aging biomarkers mediate the association between patient-reported symptoms and all-cause late-mortality: A report from the St. Jude Lifetime Cohort. AACR Annual Meeting. Abstract # 6384; poster # 15; oral # 6384. San Diego, CA. April 5-10, 2024. Role: Senior & corresponding author. Oral presentation.

99. Matt G, Sioson E, Shelton K, Wang J, Lu C, Peraza AZ, Gangwani K, Paul R, Reilly C, Acic A, Shelton K, Liu Q, Sandor S, McLeod C, Patel J, Wang F, Im C, **Wang Z**, Sapkota Y, Wilson CL, Bhakta N, Ness KK, Armstrong GT, Hudson MM, Robison LL, Zhang J, Yasui Y, Zhou X. St. Jude Survivorship Portal: Sharing and analyzing large clinical and genomic datasets from pediatric cancer survivors. AACR Annual Meeting. Oral # 6385. San Diego, CA. April 5-10, 2024. Role: Senior author.

100. Plonski NM, Pan Y, Chen C, Dong Q, Zhang X, Song N, Shelton K, Easton J, Mulder H, Zhang J, Neale G, Walker E, Wang H, Webster R, Brinkman T, Krull KR, Armstrong GT, Ness KK, Hudson MM, Li Q, Huang IC, **Wang Z**. Health-related quality of life and DNA methylation-based aging biomarkers among survivors of childhood cancer: Results from the St. Jude Lifetime Cohort. AACR Annual Meeting. Oral # 7741; poster # 3. San Diego, CA. April 5-10, 2024. Role: Senior author. Oral presentation.

101. Zhang X, Qin N, Dong Q, Chen C, Easton J, Mulder H, Chen X, Shelton K, Im C, Yasui Y, Armstrong GT, Ness KK, Hudson MM, Auer P, Zhang J, **Wang Z**. Increased mosaic chromosomal alterations among survivors of childhood Acute Myeloid leukemia. AACR Annual Meeting. Abstract # 3954; oral # 3954. San Diego, CA. April 5-10, 2024. Role: Senior & corresponding author. Oral presentation.

102. Ness KK, Mirzaei SS, Webster RT, Jacola LM, Salerno EA, Huang I-C, Brinkman TM, Ehrhardt MJ, Krull KR, Mori M, Srivastava D, Armstrong GT, Wang Z, MM H. Mapping aging phenotypes in childhood cancer survivors: A report from the St. Jude Lifetime Cohort. American Society of Clinical Oncology (ASCO) Annual Meeting. May 31-June 4, 2024. Chicago, IL. Abstract #10069. Poster presentation.

103. Berkman AM, Goodenough CG, Durakiewicz P, Howell CR, Wang Z, Easton J, Mulder HL, Armstrong GT, Hudson MM, Kundu M, Ness KK. Associations between mitochondrial copy number, exercise capacity, physiologic cost of walking and cardiac strain in young adult

survivors of childhood cancer. ISLCCC Conference. Lucerne, The Swiss Confederation. June 27-29th, 2024. Oral presentation.

104. Berkman AM, Goodenough CG, Durakiewicz P, Howell CR, Wang Z, Easton J, Mulder HL, Armstrong GT, Hudson MM, Kundu M, Ness KK. Associations between mitochondrial copy number, exercise capacity, physiologic cost of walking and cardiac strain in young adult survivors of childhood cancer. ISLCCC Conference. Lucerne, The Swiss Confederation. June 27-29th, 2024. Oral presentation. .

105. Chen C, Dong Q, Pan Y, Plonski N-M, Zhang X, Easton J, Mulder HL, Natarajan S, Walker E, Neale G, Chen X, Zhang J, Robison LL, Armstrong GT, Hudson MM, Ness KK, Wang Z. Sexual-dimorphism in leukocyte subtype-specific epigenetic age acceleration and associations with morbidity and late-mortality among survivors of childhood Cancer: A report from the St. Jude Lifetime Cohort. ISLCCC Conference. Lucerne, The Swiss Confederation. June 27-29th, 2024. Role: Senior & corresponding author. Oral presentation.

106. Dong Q, Zhang X, Chen C, Plonski N-M, Natarajan S, Easton J, Mulder HL, Zhang J, Shelton K, Dixon SB, Srivastava DK, Robison LL, Armstrong GT, Ness KK, Hudson MM, Mulrooney D, Wang Z. Prevalence of clonal hematopoiesis in long-term survivors of childhood cancer with chronic health conditions from the St. Jude Lifetime (SJLIFE) Cohort. ISLCCC Conference. Lucerne, The Swiss Confederation. June 27-29th, 2024. Role: Senior & corresponding author. Oral presentation.

107. Ware ME, We RK, Kutteh WH, Delaney A, Yu C, Shelton K, Srivastava DK, Taneja S, Sapkota Y, Wang Z, Hudson MM, Lucas J, Armstrong GT, Ness KK, Green DM. Perception of infertility risk vs. objective fertility status in males not exposed to radiation therapy from the St. Jude Lifetime (SJLIFE) Cohort. ISLCCC Conference. Lucerne, The Swiss Confederation. June 27-29th, 2024. Poster presentation.

viii. Abstracts - Accepted for Publication

1. Dong Q, Song N, Zhang X, Chen C, Easton J, Mulder HL, Walker E, Neale G, Shelton K, Ehrhardt MJ, Lucas Jr JT, Karol SE, Srivastava DK, Huang IC, Zhang J, Robison LL, Armstrong GT, Hudson MM, Ness KK, Wang Z. Blood DNA methylation signatures associated with cancer therapy exposures among childhood cancer survivors of African Ancestry: A report from the St. Jude Lifetime Cohort Study. 3rd International Symposium on Late Complications after Childhood Cancer (ISLCCC). June 27-29, 2024. Lucerne, Swiss Confederation. Oral presentation.

ix. Abstracts - Submitted for Review

1. Wang Z, Chen C, Dong Q, Pan Y, Toy H, Finch ER, Wang H, Easton J, Mulder HL, Zhang J, Walker E, Neale G, Li Q, Howell R, Jefferies JL, Robison LL, Mulrooney DA, Yasui Y, Ness KK, Hudson MM, Wang H, Chen X, Armstrong GT. Leukocyte subtype-specific epigenetic age acceleration and cardiac outcomes among survivors of childhood cancer: A report from the St. Jude Lifetime Cohort Study. Submitted

2. Dong Q, Zhang X, Chen C, Plonski N-M, Natarajan S, Easton J, Mulder HL, Zhang J, Shelton K, Dixon SB, Srivastava DK, Robison LL, Armstrong GT, Ness KK, Hudson MM,

Mulrooney D, Wang Z. Prevalence of clonal hematopoiesis in long-term survivors of childhood cancer with chronic health conditions from the St. Jude Lifetime (SJLIFE) Cohort. International Society of Paediatric Oncology (SIOP) Annual Congress. October 17-20, 2024. Honolulu, HI. Submitted.

3. Dong Q, Song N, Zhang X, Chen C, Easton J, Mulder HL, Walker E, Neale G, Shelton K, Ehrhardt MJ, Lucas Jr JT, Karol SE, Srivastava DK, Huang IC, Zhang J, Robison LL, Armstrong GT, Hudson MM, Ness KK, Wang Z. Blood DNA methylation signatures associated with cancer therapy exposures among childhood cancer survivors of African Ancestry: A report from the St. Jude Lifetime Cohort Study. 31st International Society for Quality of Life Research (ISOQOL) Annual Conference. October 13-16, 2024. Cologne, Federal Republic of Germany. Submitted

4. Dong Q, Zhang X, Chen C, Plonski N-M, Natarajan S, Easton J, Mulder HL, Zhang J, Shelton K, Dixon SB, Srivastava DK, Robison LL, Armstrong GT, Ness KK, Hudson MM, Mulrooney D, Wang Z. Prevalence of clonal hematopoiesis in long-term survivors of childhood cancer with chronic health conditions from the St. Jude Lifetime (SJLIFE) Cohort. International Society of Paediatric Oncology (SIOP) Annual Congress. October 17-20, 2024. Honolulu, HI

5. Hubbard AK, Zhou W, Boyce C, Khan J, Hudson MM, Ness KK, **Wang Z**, Janeway KA, Lupo PJ, Morton LM, Chanock SJ, Grunewalkd TGP, Delattre O, Machiela MJ, Ewing Sarcoma Germline Genetics Group. Multiple new Ewing sarcoma susceptibility loci expand knowledge of germline genetic etiology and nominate mechanisms of risk. ASHG Annual Conference. Denver, CO. November 5-9, 2024. Submitted.

A. Non-peer Reviewed Publications

i. Original Non-peer Reviewed Publications - Preprint

1. 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**. Epigenome-wide association studies of three social determinants of health and implications for lung functions among survivors of childhood cancer. medRxiv. 2020 Nov 4. doi: 10.1101/2020.10.30.20223313. Role: Senior author

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 Childrens' Research Hospital. 2020. Role: Invited speaker

8. Genetic Risk for Subsequent Breast cancer among Female Survivors of Childhood Cancer. AACR Cancer Health Disparities Virtual Conference. October, 2020. Role: Invited speaker

9. 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

10. Aging biomarkers and accelerated aging in survivors of childhood cancer. International Symposium on Drug Discovery and Development. Chungbuk National University. December 2, 2021. Role: Invited speaker

11. Pathogenic or likely pathogenic germline variants in cancer predisposition or DNA Repair Genes and risk of subsequent neoplasms among survivors of childhood cancer. Grand Rounds. City of Hope. January 13, 2022. Role: Invited speaker

12. Aging biomarkers and accelerated aging as a new paradigm for clinical research in survivors of childhood cancer. Meet-the-Expert Session. AACR Annual Meeting. April 17, 2023. Role: Invited speaker

13. Aging biomarkers and accelerated aging as a new paradigm for clinical research in survivors of childhood cancer. Cancer Outcomes Seminar Series. University of Alabama. Birmingham, AL. September 13, 2023. Role: Invited speaker.

14. Accelerated Aging as a New Paradigm for Clinical Research in Childhood Cancer Survivors. Joint CSOC/NJ PHORCE Symposium. Rutgers University, New Brunswick, NJ. November 2023. Role: Invited speaker.

15. Genetic risk of pediatric acute lymphoblastic leukemia: harnessing the data from the St. Jude Lifetime Cohort and the Childhood Cancer Survivor Study for etiology research. Featured Symposium, ASHG 2024 Annual Conference. Denver, CO. November 2024. Role: Invited speaker

20. Other Creative Products

A. Interview

1. OncLiveTV. (2018, Aug 28). *Dr. Wang on Genomic Analysis of Breast Cancer Risk in Pediatric Cancer Survivors* [Video]. YouTube. https://www.youtube.com/watch?v=M-4MofUORNI

2. OncLiveTV. (2018, Oct 16). Next Steps with the St. Jude Lifetime Cohort Study [Video]. https://www.onclive.com/view/next-steps-with-the-st-jude-lifetime-cohort-study

3. OncLiveTV. (2018, Nov 6). Identifying the Risk of Breast Cancer in Childhood Cancer Survivors [Video]. https://www.onclive.com/view/identifying-the-risk-of-breast-cancer-in-childhood-cancer-survivors

4. OncLiveTV. (2018, Nov 28). Utility of Genome-Wide Association Studies in Pediatric Oncology [Video]. OncLive. https://www.onclive.com/view/utility-of-genomewide-association-studies-in-pediatric-oncology

5. Henderson E. (2022, Apr 22). Could DNA be linked to Premature Aging in Cancer Survivors? News Medical Life Sciences. https://www.news-medical.net/news/20220422/Could-DNA-be-linked-to-Premature-Aging-in-Cancer-Survivors.aspx

B. Press Release

1. St. Jude Children's Research Hospital. (2023, Oct 2). Genetics help explain childhood cancer survivors' mortality risk from a second cancer. St. Jude Children's Research Hospital. Memphis, TN. https://www.stjude.org/media-resources/news-releases/2023-medicine-science-news/genetics-explain-childhood-cancer-survivors-mortality-risk-from-second-cancer.html?sc_cid=art-news
2. St. Jude Children's Research Hospital. (2024, Dec 3) The ticking "epigenetic" clock measures true biological age. St. Jude Children's Research Hospital. Memphis, TN. The ticking 'epigenetic' clock measures true biological age | St. Jude Research

C. Webinar

1. Genkinger J, **Wang Z**. Associations between aging biomarkers and cancer risk and outcomes: findings from the Women's Health Initiative and the St. Jude Lifetime Cohort. Perspectives on Cancer & Aging: The Arti Hurria Memorial Webinar Series. National Cancer Institute. November 7, 2022. https://cancercontrol.cancer.gov/brp/events/association-aging-biomarkers-cancer-risk-outcomes