

CURRICULUM VITAE

Tao Wang PhD

Associate Professor
Department of Institute for Health and Equity
Division of Biostatistics

OFFICE ADDRESS:

Medical Education Building
8701 Watertown Plank Rd
Milwaukee, WI 53226
Phone: 414-955-4339
Fax: 414-955-6513
Email: taowang@mcw.edu

EDUCATION:

08/1979 - 07/1983 BS, Peking University, Beijing, P.R. China
08/1987 - 07/1990 MS, Southeast University, Nanjing, P.R. China
08/1990 - 07/1993 PhD, Southeast University, Nanjing, P.R. China
09/1997 - 12/2001 PhD, North Carolina State University, Raleigh, NC

FACULTY APPOINTMENTS:

08/1993 - 12/1995 Lecturer, Institute of Systems Engineering, Southeast University, Nanjing, P.R. China
01/1996 - 05/1997 Assistant Professor, Institute of Systems Engineering, Southeast University, Nanjing, P.R. China
01/2002 - 06/2009 Secondary, Assistant Professor, Department of Physiology, Medical College of Wisconsin, Milwaukee, WI 53211
01/2002 - 06/2009 Assistant Professor, Institute for Health & Equity, Division of Biostatistics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226
01/2002 - 06/2009 Adjunct, Assistant Professor, Department of Mathematical Sciences, University of Wisconsin - Milwaukee, Milwaukee, WI 53211
07/2009 - Present Associate Professor, Institute for Health & Equity, Division of Biostatistics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226
09/2011 - Present Adjunct, Associate Professor, Department of Mathematical Sciences, University of Wisconsin - Milwaukee, Milwaukee, WI 53211

AWARDS AND HONORS:

1997 - 1998 Lucas Award, Department of Statistics, North Carolina State University, Raleigh, NC

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1998 - 2003 Sigma Xi, the Scientific Research Society
2001 - Present International Biometric Society (ENAR)
2002 - 2013 American Society of Human Genetics (ASHG)
2005 - Present American Statistical Association (ASA)
2007 - 2013 American Society for Bone and Marrow Transplantation (ASBMT)
2017 - 2019 Genetic Society of America (GSA)

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board
06/2011 - Present Frontiers in Genetics, section Statistical Genetics and Methodology
Journal Review

Heredity
Physiological Genomics
Theoretical Biology and Medical Modeling
European Journal of Human Genetics
PLoS One
Frontier in Genetics
Lifetime Data Analysis
Int J Hematology
Computational Statistics and Data Analysis
BMC-Genetics
Bioinformatics
JSTA
Computational Biology
Leukemia
Genetics

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

- 2005 - Present Member, Immunobiology Working Committee, Center for International Blood and Marrow Transplant Research (CIBMTR)
2005 - Present Member, GVHD Working Committee, Center for International Blood and Marrow Transplant Research (CIBMTR)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title: A Data Resource for Analyzing Blood and Marrow Transplants
Source: NIH/NCI (5U24 CA76518-22)
PI: Mary Horowitz
Dates: 05/15/2003 - 02/28/2023
Direct Funds: \$3,023,497

Title: Renal Mechanism in Blood Pressure Control
Source: NIH/NHLBI
PI: Cowley
Dates: 09/01/2013 - 12/31/2020
Direct Funds: \$1,509,531

Title: Hematopoietic Stem Cell and Cord Transplantation
Source: NIH/NIAID (AI069197)
Role: Co-Investigator (sub-contract)
PI: Effie Petersdorf, Fred Hutchinson Cancer Research Center, Seattle, Washington
Dates: 07/01/2015 - 05/31/2025
Direct Funds: \$4,175,120

Title: Genetic Epidemiology of Hematopoietic Cell Transplant Outcomes
Source: NIH (R01)
Role: Co-Investigator (sub-contract)
PI: Julie Ross, University of Minnesota
Dates: 07/01/2015 - 06/30/2019

Title: NK Cells, Their Receptors and Unrelated Donor Transplant
Source: NIH (5P01CA11142-03)
Role: Co-Investigator (sub-contract)
PI: Jeffery Miller, University of Minnesota
Dates: 09/01/2015 - 08/31/2020
Direct Funds: \$32,310

Title: Donor Socioeconomic Status as a Predictor of Altered Immune Function and Treatment Response Following Hematopoietic Cell Transplantation for Hematologic Malignancy
Source: NIH Cancer Institute, R01
Role: Co-Investigator
PI: Jennifer Knight, Department of Psychiatry
Dates: 04/01/2019 - 03/31/2023
Direct Funds: \$1,458,114

Title: Next-Generation Unrelated Donor Hematopoietic Cell Transplantation
Source: Fred Hutchinson Cancer/DKMS Stiftung Leben Spenden
Role: Principle Investigator
PI: Tao Wang
Dates: 01/01/2020 - 06/30/2020
Direct Funds: \$12,514

Non-Peer Review

Title: National Marrow Donor Program
Source: NMDP Service Agreement #17913
Role: Biostatistician (5 Cal.)
PI: Mary Eapen
Dates: 09/2005 - 05/31/2019

Title: Stem Cell Therapeutic Outcomes Database
Source: HRSA (HSH234200637015C)
Role: Biostatistician
PI: Mary Horowitz
Dates: 09/27/2006 - 09/26/2022
Direct Funds: \$3,626,693

Pending

Peer Review

Title: Pathologically Resolved Small RNA Maps in Human Kidney Disease
Source: NIH/NIDDK
PI: Liang
Dates: 04/01/2020 - 03/31/2025
Direct Funds: \$1,947,169

Title: Leukocyte Telomere Length Dynamics Post Allogenic Hematopoietic Cell Transplant: Relation with Survival and

Source:	Cardiovascular Disease Rutgers/NIH/NHLBI
Role:	Principle Investigator
PI:	Tao Wang
Dates:	07/01/2020 - 06/30/2025
Direct Funds:	\$73,851
Title:	Common Fund Data Supplement: Renal Cellular Metabolism and Hypertension
Source:	NIH/NIHLBI
PI:	Liang
Dates:	09/01/2020 - 08/31/2021
Direct Funds:	\$380,000
Title:	Translational Functional Genomics and Therapeutics for Vascular Disease
Source:	NIH Heart Lung and Blood Institute, R01
Role:	Co-Investigator
PI:	Michael Widlansky, Department of Medicine and Pharmacology, Medical College of Wisconsin

Prior

Peer Review

Title:	SCOR in Ischemic Heart Disease in Blacks
Source:	NIH/NHLBI
Role:	Biostatistics Core Director
Dates:	07/01/2003 - 06/30/2005
Title:	SCOR-Hypertension and Renal Diseases in Rats
Source:	NIH
Role:	Statistical Geneticist
Dates:	07/01/2003 - 06/30/2005
Title:	Genotype/phenotype Correlation in New Onset Pediatric IBD Patients (NIH)
Source:	NIH
Role:	Statistical Geneticist
Dates:	01/2004 - 01/2006
Title:	Integrative Genomics to Dissect the Genetic Regulation of T1D Onset
Source:	NIH R01 DK 080100-02
Role:	Biostatistician (0.60 Cal.)
PI:	Wang, X and Ghosh S
Dates:	09/21/2007 - 07/31/2011
Title:	Clinical And Translational Research Institute
Source:	NIH (8UL1TR00055-04)
Role:	Biostatistician
PI:	Reza Shaker
Dates:	07/01/2010 - 06/30/2017

Title: Clinical and Translational Research
Award, Supplement
Source: NIH
Role: Co-Investigator (sub-contract)
PI: Effie Petersdorf, Fred Hutchinson
Cancer Research Center, Seattle,
Washington
Dates: 04/01/2011 - 03/31/2012

Non-Peer Review

Title: Multi-Rat Association Mapping of
Quantitative Trait Loci
Source: New Faculty Research Grant/ Medical
College of Wisconsin
Role: Principle Investigator
PI: Tao Wang
Dates: 01/2004 - 12/2004

Title: MCW Strategically Focused
Hypertension Research Center
Source: American Heart Association (AHA)
Role: Biostatistician
PI: Mingyu, Liang, Department of
Physiology, Medical College of
Wisconsin
Dates: 02/01/2015 - 03/31/2019

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

Local

- Wang T, Linkage Mapping of Quantitative Trait Loci, Bioinformatics Research Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 05/2002
- Wang T, A Latent Variable Approach for Association Mapping of Quantitative Trait Loci, Division of Biostatistics, Medical College of Wisconsin, Milwaukee, Wisconsin, 01/17/2006
- Wang T, Modeling of Quantitative Trait Loci and a Latent Variable Approach for Association Mapping, Human Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 06/15/2006
- Wang T, Haplotype Association in Genetic Case-Control Studies, Seminar at Human Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 03/06/2008
- Wang T, KIR Project Meeting, University of Minnesota, Minneapolis, Minnesota, 01/21/2009 - 01/23/2009
- Wang T, A DNA Microarray Study on Renal Disease Using Congenic Rats, Human Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 02/19/2009
- Wang T, Logistic Regression-What Is It, Why Use It and What Can It Do?, Biostatistics Lecture Series, CTSI - CME Program, Medical College of Wisconsin, Milwaukee, Wisconsin, 03/06/2009
- Wang T, KIR Haplotype Meeting, NMDP, Minneapolis, Minnesota, 04/15/2009
- Wang T, CIBMTR Process Review Meeting, Dell, Wisconsin, 06/12/2009 - 06/13/2009
- Wang T, A Generalized Linear Mixed Model (GLMM) for Family-Based Genetic Association Studies, Division of Biostatistics, Medical College of Wisconsin, Milwaukee, Wisconsin, 09/11/2009
- Wang T, Multivariate Tables for CIBMTR Projects, NMDP, Minneapolis, Minnesota, 09/18/2009
- Wang T, On Modeling of Quantitative Trait Loci-Genetic Effects and Their Variation Contributions, Human Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 01/07/2010
- Wang T, Nonparametric Tests, Biostatistics Lecture Series, CTSI - CME Program, Medical College of Wisconsin, Milwaukee, Wisconsin, 02/10/2010
- Wang T, Coding of Genotypes and Interpretation of Model Parameters in Genetic Models, Section of Quantitative Health Services, Department of Pediatrics, Medical College of Wisconsin, Milwaukee, Wisconsin, 06/08/2010
- Wang T, Uses and Abuses of Non-parametric Statistics in Medical Research, Biostatistics Lecture Series,

- CTSI - CME Program, Medical College of Wisconsin, Milwaukee, Wisconsin, 04/06/2011
- Wang T, An R Workshop-Beginning, Intermediate, and Advanced Concepts, Milwaukee Chapter of the American Statistical Association (WASA), Medical College of Wisconsin, Milwaukee, Wisconsin, 09/2011
- Logan B and Wang T, Cox Proportional Hazards Model, MS Statistician Training, CIBMTR, Medical College of Wisconsin, Milwaukee, Wisconsin, 11/18/2011
- Wang T, On Coding Genotypes and Interpretation of Model Parameters in Genetic Association Study of Quantitative Traits, Human Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 01/19/2012
- Wang T, Discrete Data Analysis, Biostatistics Lecture Series, CTSI - CME Program, Medical College of Wisconsin, Milwaukee, Wisconsin, 04/20/2012
- Wang T, R Programming Workshop, Milwaukee Chapter of the American Statistical Association (ASA), Medical College of Wisconsin, 06/2012
- Wang T, On Coding Genotypes in Statistical Modeling of Qualitative Traits, Department of Mathematical Sciences, University of Wisconsin-Milwaukee, Milwaukee, Wisconsin, 10/17/2012
- Wang T, R Workshop - Bioconductor & Seamless R/C++ Integration, Milwaukee Chapter of the American Statistical Association (ASA), Medical College of Wisconsin, Milwaukee, Wisconsin, 05/10/2013 - 05/11/2013
- Wang T, Association Analysis of MHC Region SNPs in Unrelated Donor (URD) Hematopoietic Stem Cell Transplantations (HSCT), Human Molecular Genetics Center, Medical College of Wisconsin, Milwaukee, Wisconsin, 06/06/2013
- Wang T, Comparison of Statistics in Association Tests of Genetic Markers for Survival Outcomes, Division of Biostatistics, Medical College of Wisconsin, Milwaukee, Wisconsin, 09/24/2013
- Wang T, A Re-Parameterization on Random Genetic Effects in Fitting Generalized Linear Mixed Models to Family Data, Division of Biostatistics, Medical College of Wisconsin, Milwaukee, Wisconsin, 11/14/2014
- Wang T, AHW REP Responsive Component Full Proposal Review, Clinical Science, Medical College of Wisconsin, Milwaukee, Wisconsin, 12/08/2016
- Wang T, R Workshop - Bayesian Additive Regression Trees (BART), International Conference on "Biostatistics in the Modern Computing Era", Medical College of Wisconsin, Milwaukee, Wisconsin, 10/01/2017
- Wang T, Deep Learning Workshop, Marquette University, Milwaukee, Wisconsin, 04/05/2019 - 04/06/2019
- Wang T, On Haplotype Association for Identification of Candidate Genes, CIBMTR MS Workshop, Medical College of Wisconsin, Milwaukee, Wisconsin, 05/31/2019
- Wang T, Genomics and Personalized Medicine: Analysis and Clinical Implementation, CTSI Conference, Marquette University, Milwaukee, Wisconsin, 12/17/2019

National

- Wang T, Zeng Z, Modeling of Quantitative Trait Loci in Linkage Disequilibrium in Experimental and National Populations, Department of Mathematics and Statistics, University of Southern California, 02/2001
- Wang T and Zeng Z, Multipoint Linkage Disequilibrium Mapping of Quantitative Trait Loci in Natural Population, Department of Statistics, University of California-Riverside, 05/2001
- Wang T and Zeng Z, Linkage Disequilibrium Mapping of Quantitative Trait Loci in Natural Population, Department of Statistics, University of Florida, 08/2001
- Wang T and Zeng Z, Modeling and Linkage Disequilibrium Mapping Quantitative Trait Loci in Natural Population, Yale University, 09/2001
- Wang T, Multipoint Linkage Disequilibrium Mapping of Quantitative Trait Loci in Natural Populations, Division of Biostatistics, Medical College of Wisconsin, 10/20/2001
- Wang T, National Center for Research Resources (NCRR), Bioinformatics Conference on "Genetic Analysis of Complex Diseases & Human Populations", Chicago, Illinois, 09/19/2003 - 09/21/2003
- Petersdorf E and Wang T, Hematopoietic Cell Transplantation, HLA Genetics Consortium Meeting, NIAID, NIH, Rockville, Maryland, 02/29/2008
- Wang T, Contribution of Genetic Effects to Genetic Variance Components, Division of Biostatistics, Washington University School of Medicine, St. Louis, Missouri, 03/18/2011
- Petersdorf E and Wang T, Statistical Analysis of SNPs in URD HSCT, HLA Region Genomics in Immune-Mediated Diseases Consortium, Bethesda, Maryland, 03/27/2013

- Petersdorf E and Wang T, SNP Analysis in Hematopoietic Cell and Cord Blood Transplantation, Project meeting for U01: AI069197: Hematopoietic Cell and Cord Blood Transplantation, Fred Hutchinson Cancer Research Center, Seattle, Washington, 08/2013
- Wang T, Association Analysis of MHC Region SNPs in Unrelated Donor (URD) Hematopoietic Stem Cell Transplantations (HSCT), National Marrow Donor Program, Minneapolis, Minnesota, 09/05/2013
- Wang T, Comparison of Statistics in Association Tests of Genetics Markers for Survival Outcomes, International Conference on Survival Analysis in Memory of John P. Klein, Medical College of Wisconsin, Milwaukee, Wisconsin, 06/27/2014
- Wang T, Biostatistics in the Modern Computing Era, A National Conference held by the Division of Biostatistics, Medical College of Wisconsin, Milwaukee, Wisconsin, 09/28/2017 - 10/01/2017

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

National

- Wang T and Seng Z, Multipoint Likelihood Approach to Infer Quantitative Trait Loci in National Population, Gordon Conference on Quantitative Genetics and Genomics, Ventura, California, 02/2001
- Wang T and Jacob H, Linkage Disequilibrium Mapping Using Genotype Data from Unrelated Individuals, American Society of Human Genetics 52nd Annual Meeting, Baltimore, Maryland, 10/15/2002 - 10/19/2002
- Wang T and Jacob H, Multipoint Association Mapping Using Genotype Data, American Society of Human Genetics 53rd Annual Meeting, Los Angeles, California, 11/04/2003 - 11/08/2003
- Wang T, Jacob H, and Zeng ZB, Association Mapping of Disease Genes-A Latent Variable Approach, American Society of Human Genetics 55th Annual Meeting, Salt Lake City, Utah, 10/25/2005 - 10/29/2005
- Wang T, Jacob H, Ghosh S, Wang XJ, and Zeng ZB, Haplotype-based Association in Case-Control Studies-A Latent Variable Approach, The International Biometric Society-ENAR Spring Meetings, Crystal City, Arlington, Virginia, 03/16/2008 - 03/19/2008
- Wang T, He P, Ahn KW, Wang X, Ghosh S, and Laud P, Fitting Generalized Linear Mixed Models to Family Data in Genetic Association Studies, The International Biometric Society-ENAR Spring Meetings, Baltimore, Maryland, 03/16/2014 - 03/19/2014
- Wang T, A Revisit to Two-Way Factorial ANOVA for Unbalanced Data, The International Biometric Society-ENAR Spring Meetings, Austin, Texas, 03/06/2016 - 03/09/2016
- Wang T, Analysis of Variance Components for Genetic Markers with Unphased Genotypes, Joint Statistical Meetings (JSM), Chicago, Illinois, 07/30/2016 - 09/12/2016
- DeVogel N and Wang T, Assessment of Population Sub-Structure in Genetic Association Studies, Genetic Society Conference (GSA) on Population Evolutionary and Quantitative Genetics, Madison, Wisconsin, 05/13/2018 - 05/16/2018
- DeVogel N and Wang T, Comparison of Hypothesis Testing Methods on Random Genetic Effects in Family Data, The International Biometric Society-ENAR Spring Meetings, Philadelphia, Pennsylvania, 03/24/2019 - 03/27/2019

International

- Wang T, Jacob H, and Zeng ZB, Genetic Association in Case-Control Studies-A Latent Variable Method, XXIII International Biometric Conference, Montreal, Quebec, Canada, 07/16/2006 - 07/21/2006

COMMITTEE SERVICE:

Medical College of Wisconsin

- 07/2002 - 07/2003 Member, Computer Committees, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
- 07/2003 - 07/2004 Member, Seminar Committees, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
- 07/2003 - 06/2005 Member, Graduate Studies Council (GSC), Medical College of Wisconsin
- 07/2004 - 07/2005 Member, Library Committees, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
- 07/2005 - 07/2007 Member, Library and Seminar Committees, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin

05/2006 - 07/2009 Member, CTSA Biostatistics and Design, Medical College of Wisconsin
 07/2006 - 07/2007 Member, Epidemiology Data Service Center, Medical College of Wisconsin
 07/2007 - 07/2008 Member, Library and Social Committees, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 07/2008 - 07/2014 Member, Graduate Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 07/2008 - 07/2011 Member, Graduate Studies Council (GSC), Medical College of Wisconsin
 07/2008 - 07/2011 Recruitment Director, Recruitment Director in Biostatistics, Graduate School, Medical College of Wisconsin
 07/2008 - 07/2010 Member, Continuing Education Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 08/2008 - 07/2010 Chair, Education Committee, Department of Population Health, Medical College of Wisconsin
 12/2008 - Present Member, Scientific Peer Review Panel, Advancing a Healthier Wisconsin Program, Medical College of Wisconsin
 07/2009 - 07/2011 Chair, Computer Committees, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 07/2009 - 07/2014 Member, Computer Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 07/2012 - 07/2015 Member, GSC Curriculum and Programs Committee, Medical College of Wisconsin
 07/2013 - 07/2015 Member, Library Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 07/2015 - 07/2016 Chair, Datum Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 07/2017 - Present Member, GSC Program Evaluation Committee, Medical College of Wisconsin
 01/2019 - 02/2019 Member, Biostatistics PhD Admissions Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin
 01/2020 - 02/2020 Member, Biostatistics PhD Admissions Committee, Division of Biostatistics, Institute for Health & Equity, Medical College of Wisconsin

MEDICAL COLLEGE TEACHING ACTIVITIES:

Graduate Student Education

09/2002 - 12/2002 Statistical Genetics
 01/2003 - 05/2003 Advanced Statistical Computing (jointly with Dr. Klein)
 01/2004 - 05/2004 Linear Models
 01/2005 - 05/2005 Statistical Genetics
 01/2006 - 05/2006 Linear Models
 09/2006 - 12/2006 Statistical Genetics
 01/2007 - 05/2007 Biostatistics II (jointly with Drs. Hoffman, Tarima, and Zhang)
 09/2007 - 12/2007 Biostatistics I (jointly with Drs. Hoffmann, Zhang, Logan, and Laud)
 01/2008 - 05/2008 Statistical Models and Methods II
 01/2009 - 05/2009 Statistical Genetics
 01/2010 - 05/2010 Advanced Statistical Computing
 01/2011 - 05/2011 Statistical Genetics
 08/2011 - 12/2011 Statistical Models and Methods III
 01/2013 - 05/2013 Statistical Genetics
 01/2014 - 05/2014 Advanced Statistical Computing
 01/2015 - 05/2015 Statistical Genetics
 01/2016 - 05/2016 Advanced Statistical Computing (jointly with Dr. Szabo)
 01/2017 - 05/2017 Statistical Genetics
 01/2018 - 05/2018 Theoretical Consulting

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Graduate Students

MS Committees

Kathleen Hanson-Morris, Medical College of Wisconsin, - 2004, MS in Epidemiology
Michelle Pickett, Medical College of Wisconsin, - 2015
Melissa Warden, Medical College of Wisconsin, - 2006, MS in Epidemiology
Michelle Brenner, Medical College of Wisconsin, - 2014
Depak Sharma, Medical College of Wisconsin, - 2007, MS in Epidemiology
Ryan Casper, Medical College of Wisconsin, - 2007, MS in Epidemiology
Daniel A. Yacono, Medical College of Wisconsin, - 2003, MS in Epidemiology
Laure Demattia, Medical College of Wisconsin, - 2006, MS in Epidemiology
Josiah Halm, Medical College of Wisconsin, - 2003, MS in Epidemiology
Adam Benjamin, Medical College of Wisconsin, - 2015

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS

MENTORED:

Graduate Students

PhD Committees

Leiyuan Lu, Division of Biostatistics, Medical College of Wisconsin, 09/2003 - 11/2005 Explained Variation in Survival Analysis and Hypothesis Testing for Current Leukemia-Free Survival, PhD in Biostatistics
Nickolas Pajewski, Division of Biostatistics, Medical College of Wisconsin, 09/2006 - 07/2008 Bayesian Semi-Parametric Hierarchical Models for Genetic Association Studies in the Presence of Population Structure and Multiplicity, PhD in Biostatistics
Shuyuan Mo, Division of Biostatistics, Medical College of Wisconsin, 09/2009 - 08/2011 Inference in the Presence of Crossing Survival Curves, PhD in Biostatistics
Franco Mendolia, Division of Biostatistics, Medical College of Wisconsin, 09/2010 - 07/2013 Pseudo-Observation Regression in the Presence of Left Truncation, PhD in Biostatistics
Yanzhi Wang, Division of Biostatistics, Medical College of Wisconsin, 09/2011 - 05/2014 Generalized Linear Mixed Models for Correlated Time to Event Data Using Pseudo-Values, PhD in Biostatistics
Peng He, Division of Biostatistics, Medical College of Wisconsin, 09/2012 - 01/2014 Bias Reduction by Using Covariate-Adjusted Censoring Weights for Survival and Competing Risks Data, PhD in Biostatistics
Natasha Sahr, Division of Biostatistics, Medical College of Wisconsin, 09/2015 - 05/2018 Variable Selection of Survival Data with Group Structure, PhD in Biostatistics
Anna Williams, Department of Physiology, Medical College of Wisconsin, 05/2018 - Present Evaluation of MicroRNAs as Prognostic Biomarkers and as Regulators of Histological Progression in Human CKD, MD in Physiology

MS Committees

Jamie Watts, 05/2009 - 05/2011, MS in Biostatistics
Xiao Dong, Marquette University, - 2004, MS in Computing
Serena Hung, Medical College of Wisconsin, - 2007, MS in Epidemiology
Victoria Rajamanickam, - 2006, MS in Biostatistics

PhD Students Advised

Nicholas DeVogel, Division of Biostatistics, Medical College of Wisconsin, 09/2016 - 09/2019 Adjust for Familiar and Population Admixture in Genetic Association Studies, PhD in Biostatistics

Clinical/Research Fellows

Jinxia Liu, Division of Biostatistics, Medical College of Wisconsin, 01/2004 - 12/2004 Supervisor, PhD in Biostatistics
Franco Mendolia, Division of Biostatistics, Medical College of Wisconsin, 09/2011 - 07/2013 Supervisor, PhD in Biostatistics
Xinran Qi, Division of Biostatistics, Medical College of Wisconsin, 09/2018 - 07/2019 Supervisor, PhD in Biostatistics
Susanne Cabrera, Department of Pediatrics, Medical College of Wisconsin, Consultant to Clinical Research Scholars (CRS)
Carmen Bergom, Department of Radiation Oncology, Medical College of Wisconsin, Consultant to Clinical Research Scholars (CRS)
Amy Delaney, Department of Otolaryngology and Communication Disorders, Medical College of

Wisconsin, Consultant to Clinical Research Scholars (CRS)
Kovacic Katja, Department of Pediatrics, Medical College of Wisconsin, Consultant to Clinical Research Scholars (CRS)

Faculty

Kwang Woo Ahn, Division of Biostatistics, Medical College of Wisconsin, 08/2008 - 06/2014 Mentor of Faculty, Associate Professor

China-Wei Lin, Division of Biostatistics, Medical College of Wisconsin, 10/2017 - Present Mentor of Faculty, Assistant Professor

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. **Wang T**, Sheng ZH. Asymptotic stationarity of discrete-time stochastic neural networks. *Neural Networks*, 9(6): 957-963. 1996.
2. Bilusic M, Bataillard A, Tschannen M, Gao L, Barreto N, Vincent M, **Wang T**, Jacob HJ, Sassard J, Kwitek AE. Hypertension and related phenotypes cluster on chromosome 2, 13 and 17 in the Lyon Hypertensive (LH) rat. *Hypertension*, 44: 695-701. 2004.
3. Kugathasan S, Loizides A, Babusukumar U, McGuire E, **Wang T**, Hooper P, Nebel J, Kofman G, Noel R, Broeckel U, Tolia V. Comparative phenotypic and CARD15 mutational analysis among African American, Hispanic, and White children with Crohn's disease. *Inflammatory Bowel Diseases*, 11(7): 631-638, 2005.
4. Zeng ZB, **Wang T**, Zou W. Modeling quantitative trait loci and interpretation of models. *Genetics*, 169:1711-1725, 2005.
5. Babusukumar U, **Wang T**, McGuire E, Miranda A, Broeckel U, Kugathasan S. Contribution of OCTN variants within the IBD5 locus in pediatric onset Crohn's disease. *American Journal of Gastroenterology*, 101(6): 1354-1361. 2006.
6. **Wang T**, Zeng ZB. Models and partition of variance for quantitative trait loci with epistasis and linkage disequilibrium. *BMC Genetics*, 7: Article 9, 2006. PMID:16472377
7. **Wang T**, Weir BS, Zeng ZB. A population-based latent variable approach for association mapping of quantitative trait loci. *Annals of Human Genetics*, 70(4): 506-523, 2006. PMID:16759182
8. Glisic-Milosavljevic S, **Wang T**, Koppen M, Kramer J, Ehlenbach S, Waukau J, Jailwala P, Jana S, Alemzadeh R, Ghosh S. Dynamic changes in CD4+CD25+high T cell apoptosis after the diagnosis of type 1 diabetes. *Clinical and Experimental Immunology*, 150(1): 75-82, 2007. PMID: 17711492
9. Moreno C, Kaldunski ML, **Wang T**, Roman RJ, Greene AS, Lazar J, Jacob HJ, Cowley AW. Multiple blood pressure loci on rat chromosome 13 attenuate the development of hypertension in the Dahl S hypertensive rat. *Physiological Genomics*, 31(2): 228-235. 2007.
10. Koukouritaki SB, Poch MT, Henderson MC, Siddens LK, Krueger SK, VanDyke JE, Williams DE, Pajewski NM, **Wang T**, Hines RN. Identification and functional analysis of common human flavin-containing monooxygenase 3 (FMO3) genetic variants. *The Journal of Pharmacology and Experimental Therapeutics*, 320(1): 266-273. 2007.
11. Biank V, Friedrichs F, Babusukumar U, **Wang T**, Stoll M, Broeckel U, Kugathasan S. DLG5 R30Q Variant is a female-specific protective factor in pediatric onset Crohn's disease. *American Journal of Gastroenterology*, 102(2): 391-398. 2007.
12. Adamovic T, McAllister D, Rowe J, **Wang T**, Jacob HJ, Sugg SL. Genetic mapping of mammary tumor traits to rat chromosome 10 using a novel panel of consomic rats. *Cancer Genetics and Cytogenetics*, 186(1): 41-48, 2008.
13. Duquesnoy R, Spellman S, Haagenon M, **Wang T**, Horowitz MM, Oudshoorn M. HLA mismatchmaker-defined triplet matching is not associated with better survival rates of patients with class I HLA allele mismatched hematopoietic cell transplants from unrelated donors. *Biology of Blood and Marrow Transplantation*, 14(9): 1064-1071, 2008.
14. Lee SJ, Kukreja M, **Wang T**, Giralt SA, Szer J, Arora M, Woolfrey AE, Cervantes F, Champlin RE, Gale RP, Halter J, Keating A, Marks DI, McCarthy PL, Olavarria E, Stadtmauer EA, Abecasis M, Gupta V, Khoury HJ, George B, Hale GA, Liesveld JL, Rizzieri DA, Antin JH, Bolwell BJ, Carabasi MH, Copelan E, Ilhan O, Litzow MR, Schouten HC, Zander AR, Horowitz MM, Maziarz RT. Impact of

- prior imatinib mesylate on the outcome of hematopoietic cell transplantation for chronic myeloid leukemia. *Blood*, 112(8): 3500-3507, 2008. PMID:18664621
15. **Wang T**, Zeng ZB. Contribution of genetic effects to genetic variance components with epistasis and linkage disequilibrium. *BMC Genetics*, 10: Article 52, 2009. PMID: 19732450
 16. **Wang T**, Jacob H, Ghosh S, Wang XJ, Zeng ZB. A joint association test for multiple SNPs in genetic case-control studies. *Genetic Epidemiology*, 33(2): 151-163, 2009. PMID: 18770519
 17. Davies SM, Wang D, **Wang T**, Arora M, Ringden O, Anasetti C, Pavletic S, Casper J, MacMillan ML, Sanders J, Wall D and Kernan NA. Recent Decrease in Acute GVHD in Children with Leukemia Receiving Unrelated Donor Bone Marrow Transplants. *Biology of Blood and Marrow Transplantation*, 15(3): 360-366, 2009. PMID: 19203727
 18. Ringden O, Pavletic S, Anasetti C, Barrett JA, **Wang T**, Wang D, Antin JH, Bartolomeo PD, Bolwell BJ, Bredeson C, Cairo MS, Gale RP, Gupta V, Hahn T, Hale GA, Halter J, Jagasia M, Litzow MR, Locatelli F, Marks DI, McCarthy PL, Cowan MJ, Petersdorf EW, Russell JA, Schiller GJ, Schouten H, Spellman S, Verdonck LF, Wingard JR, Horowitz MM, and Arora M. The graft-versus-leukemia effect using matched unrelated donors is not superior to HLA-identical siblings for hematopoietic stem cell transplantation. *Blood*, 113(13): 3110-3118, 2009. PMID: 19059878.
 19. Glisic S, Klinker M, Waukau J, Jailwala P, Jana S, Basken J, **Wang T**, Alemzadeh R, Ghosh S. Genetic association of HLA DQB1 with CD4+CD25+high T-cell apoptosis in Type 1 Diabetes. *Genes and Immunology*, 10(4): 334-340, 2009. PMID: 19295543
 20. Spellman S, Warden MB, Haagenson M, Pietz BC, Goulmy E, Warren E, **Wang T**, Ellis TM. Effects of mismatching for minor histocompatibility antigens on clinical outcomes in HLA-matched, unrelated hematopoietic stem cell transplants. *Biology of Blood and Marrow Transplantation*, 15(7): 856-863, 2009.
 21. Baxter-Lowe LA, Maiers M, Spellman S, Haagenson M, **Wang T**, Fernandez-Vina M, Marsh S, Horowitz M, Hurley CK, HLA-A disparities illustrate challenges for ranking the impact of HLA mismatches on Bone Marrow transplant outcomes in the United States. *Biology of Blood and Marrow Transplantation*, 15(8): 971-981, 2009.
 22. Anderson EJ, Grzywacz B, Wang H, **Wang T**, Haagenson M, Spellman S, Blazar BR, Miller JS, Verneris MR. Limited role of MHC class I chain-related gene A (MICA) typing in assessing GVHD risk after fully HLA-matched unrelated donor transplantation. *Blood*, 114: 4753-4754, 2009.
 23. Klinker MW, Schiller JJ, Magnuson VL, **Wang T**, Basken J, Veth K, Pearce KI, Kinnunen L, Harjutsalo V, Wang XJ, Tuomilehto J, Sarti C, Ghosh S. Single-nucleotide polymorphisms in the IL2RA gene are associated with age-at-diagnosis in late-onset Finnish type 1 diabetes subjects. *Immunogenetics*, 62(2):101-7, 2010. PMID: 20033399
 24. Cooley S, Weisdorf DJ, Guethlein LA, Klein JP, **Wang T**, Le CT, Marsh SGE, Geraghty DE, Spellman S, Haagenson MD, Ladner M, Trachtenberg EA, Parham P, and Miller JS. Donor selection for natural killer cell receptor genes leads to superior survival after unrelated transplantation for acute myelogenous leukemia. *Blood*, 116(14):2411-2419, 2010. PMID: PMC2953880
 25. McDermott DH, Conway SE, **Wang T**, Ricklefs SM, Agovi M, Porcella SF, Tran HTB, Milford E, Spellman S and Abdi R. Donor and recipient chemokine receptor CCR5 genotype is associated with survival after bone marrow transplantation. *Blood*, 115(11):2311-2318: 2010. PMID: 20068218
 26. Nguyen YP, Al-Lehibi A, Gorbe E, Li E, Haagenson M, **Wang T**, Spellman S, Lee SJ, and Davidson NO. Insufficient Evidence for Association of NOD2/CARD15 or Other Inflammatory Bowel Disease-Associated Markers on GVHD Incidence or Other Adverse Outcomes in T-Replete, Unrelated Donor Transplantation, *Blood*, 115(17):3625-31, 2010. PMID: PMC2867270
 27. Marks DI, **Wang T**, Perez WS, Antin JH, Copelan EA, Gale RP, George B, Gupta V, Halter J, Khoury HJ, Klumpp TR, Lazarus HM, Lewis VA, McCarthy PL, Rizzieri DA, Sabloff M, Szer J, Tallman MS, and Weisdorf DJ. The outcome of full intensity versus reduced intensity conditioning matched sibling or unrelated donor transplantation in adults with Philadelphia chromosome negative acute lymphoblastic leukemia in first and second complete remission, *Blood*, 116(3):366-74, 2010. PMID: PMC2913452
 28. Adamovic T, McAllister D, **Wang T**, Adamovic D, Rowe JJ, Moreno C, Lazar J, Jacob HJ and Sugg SL. Identification of novel carcinogen-mediated mammary tumor susceptibility loci in the rat using the chromosome substitution technique. *Genes, Chromosomes and Cancer*, 49(11):1035-45, 2010. PMID: PMC2943010
 29. Valcárcel D, Sierra J, **Wang T**, Kan F, Gupta V, Hale GA, Marks DI, McCarthy PL, Oudshoorn M, Petersdorf EW, Ringdén O, Setterholm M, Spellman SR, Waller EK, Gajewski JL, Marino SR, Senitzer D, Lee SJ. One antigen mismatched related vs. HLA-matched unrelated donor hematopoietic

- transplantation in adults with acute leukemia: CIBMTR results in the era of molecular HLA typing. *Biol Blood Marrow Transplant*, 17:640-648, 2011. PMID: 20674756
30. Vogl DT, **Wang T**, Pérez WS, Stadtmauer EA, Heitjan DF, Lazarus HM, Kyle RA, Kamble R, Weisdorf D, Roy V, Gibson J, Ballen K, Holmberg L, Bashey A, McCarthy PL, Freytes C, Maharaj D, Maiolino A, Pavlovsky S, Hari P. Effect of obesity on outcomes after autologous hematopoietic stem cell transplantation for multiple myeloma. *Biol Blood Marrow Transplant*, 18:640-648, 2011. PMID: 21624486
 31. **Wang T**. On coding genotypes for genetic markers with multiple alleles in genetic association study of quantitative traits. *BMC Genetics*, 12: Article 82, 2011. PMID: 21936918
 32. Petersdorf EW, Malkki M, Gooley TA, Spellman SR, Haagenson MD, Horowitz MM, **Wang T**. MHC resident variation affects risks after unrelated donor Hematopoietic cell transplantation. *Science Translational Medicine*, 4 (144): 144ra101, 2012. PMID: 22837536
 33. Horan J, **Wang T**, Haagenson MD, Spellman SR, Dehn J, Eapen M, Frangoul H, Gupta V, Hale GA, Hurley CK, Marino S, Oudshoorn M, Reddy V, Shaw P, Lee SJ, Woofrey A. Evaluation of HLA matching in unrelated hematopoietic stem cell transplantation for nonmalignant disorders. *Blood*, 120 (14):2918-2924, 2012. PMID: 22829628
 34. Vierra-Green C, Roe D, Guethlein L, Hollenbach JA, Hou LH, Hurley CK, Lebeveda T, Noreen H, Rajalingam R, Reed E, Stewart M, **Wang T**, Yu N, Spellman S, Maiers M. Allele-level haplotype frequencies and pairwise linkage disequilibrium for 14 KIR loci in 506 European-American individuals. *PLOS ONE*. , 7(11): e47491. 2012. PMID: 23139747. PMCID: PMC3489906
 35. Chiu YE, Havens PL, Siegel DH, Ali O, **Wang T**, Holland KE, Galbraith SS, Lyon VB, Drolet BA. Serum 25-hydroxyvitamin D concentration does not correlate with atopic dermatitis severity. *Journal of the American Academy of Dermatology*. 2013 Feb 14. pii: S0190-9622(13)00070-4. doi: 10.1016/j.jaad.2013.01.010. PMID: 23415685
 36. Petersdorf EW, Malkki M, Horowitz MM, Spellman SR, Haagenson MD, **Wang T**. Mapping MHC haplotype effects in unrelated donor hematopoietic cell transplantation *Blood*, 121:1896-1905. 2013. PMID: 23305741. PMCID: PMC3591807
 37. Bedi M, King D, Shivakoti M, **Wang T**, Zambrano E, Charlson J, Hackbarth D, Neilson J, Whitfield R, Wang D. Prognostic variables in patients with primary soft tissue sarcoma of the extremity and trunk treated with neoadjuvant radiotherapy or neoadjuvant sequential chemoradiotherapy. *BMC Radiation Oncology*, 8: Article 60, 2013. PMID:23497372
 38. Hurley CK, Woolfrey A, **Wang T**, Haagenson M, Umejiego J, Aljurf M, Askar M, Battiwalla M, Dehn J, Horan J, Oudshoorn M, Pidala J, Saber W, Turner V, Lee SJ, Spellman SR. The impact of HLA unidirectional mismatches on the outcome of myeloablative hematopoietic stem cell transplantation with unrelated donors. *Blood* 2013, Accepted.
 39. Sobecks RM, **Wang T**, Askar M, Gallagher MM, Haagenson M, Spellman S, Fernandez-Vina M, Malmberg KJ, Müller C, Battiwalla M, Gajewski J, Verneris MR, Ringdén O, Marino S, Davies S, Dehn J, Bornhäuser M, Inamoto Y, Woolfrey A, Shaw P, Pollack M, Weisdorf D, Milller J, Hurley C, Lee SJ, Hsu K. Impact of KIR and HLA Genotypes on Outcomes after Reduced-Intensity Conditioning Hematopoietic Cell Transplantation. *Biol Blood Marrow Transplant*. 2015 Sep;21(9):1589-96. PMCID: PMC4537837
 40. **Wang T**, He P, Ahn KW, Wang X, Ghosh S, Laud P. A re-formulation of generalized linear mixed models to fit family data in genetic association studies. *Front Genet*. 2015;6:120. PMCID: PMC4379931
 41. Gadalla SM, **Wang T**, Haagenson M, Spellman SR, Lee SJ, Williams KM, Wong JY, De Vivo I, Savage SA. Association between donor leukocyte telomere length and survival after unrelated allogeneic hematopoietic cell transplantation for severe aplastic anemia. *JAMA*. 2015 Feb 10;313(6):594-602. PMCID: PMC4388056
 42. Arai S, Arora M, **Wang T**, Spellman SR, He W, Couriel DR, Urbano-Ispizua A, Cutler CS, Bacigalupo AA, Battiwalla M, Flowers ME, Juckett MB, Lee SJ, Loren AW, Klumpp TR, Prockup SE, Ringdén OT, Savani BN, Socié G, Schultz KR, Spitzer T, Teshima T, Bredeson CN, Jacobsohn DA, Hayashi RJ, Drobyski WR, Frangoul HA, Akpek G, Ho VT, Lewis VA, Gale RP, Koreth J, Chao NJ, Aljurf MD, Cooper BW, Laughlin MJ, Hsu JW, Hematti P, Verdonck LF, Solh MM, Norkin M, Reddy V, Martino R, Gadalla S, Goldberg JD, McCarthy PL, Pérez-Simón JA, Khera N, Lewis ID, Atsuta Y, Olsson RF, Saber W, Waller EK, Blaise D, Pidala JA, Martin PJ, Satwani P, Bornhäuser M, Inamoto Y, Weisdorf DJ, Horowitz MM, Pavletic SZ, Graft-vs-Host Disease Working Committee of the CIBMTR. Increasing incidence of chronic graft-versus-host disease in allogeneic transplantation: a report from the Center for International Blood and Marrow Transplant Research. *Biol Blood Marrow Transplant*.

- 2015 Feb;21(2):266-74. PMID: PMC4326247
43. Kornblit B, Enevold C, **Wang T**, Spellman S, Haagenson M, Lee SJ, Müller K. Toll-like receptor polymorphisms in allogeneic hematopoietic cell transplantation. *Biol Blood Marrow Transplant.* 2015 Feb;21(2):259-65. PMID: PMC4297590
 44. Bachanova V, Burns LJ, **Wang T**, Carreras J, Gale RP, Wiernik PH, Ballen KK, Wirk B, Munker R, Rizzieri DA, Chen YB, Gibson J, Akpek G, Costa LJ, Kamble RT, Aljurf MD, Hsu JW, Cairo MS, Schouten HC, Bacher U, Savani BN, Wingard JR, Lazarus HM, Laport GG, Montoto S, Maloney DG, Smith SM, Brunstein C, Saber W. Alternative donors extend transplantation for patients with lymphoma who lack an HLA matched donor. *Bone Marrow Transplant.* 2015 Feb;50(2):197-203. PMID: PMC4336786
 45. **Wang T**. A revised Fisher model on analysis of quantitative trait loci with multiple alleles. *Front Genet.* 2014;5:328. PMID: PMC4174749
 46. Huang X, Yuan T, Liang M, Du M, Xia S, Dittmar R, Wang D, See W, Costello BA, Quevedo F, Tan W, Nandy D, Bevan GH, Longenbach S, Sun Z, Lu Y, **Wang T**, Thibodeau SN, Boardman L, Kohli M, Wang L. Exosomal miR-1290 and miR-375 as prognostic markers in castration-resistant prostate cancer. *Eur Urol.* 2015 Jan;67(1):33-41. PMID: PMC4252606
 47. Mendolia F, Klein JP, Petersdorf EW, Malkki M, **Wang T**. Comparison of statistics in association tests of genetic markers for survival outcomes. *Stat Med.* 2014 Feb 28;33(5):828-44. PMID: PMC3985281
 48. Inamoto Y, Flowers ME, **Wang T**, Urbano-Ispizua A, Hemmer MT, Cutler CS, Couriel DR, Alousi AM, Antin JH, Gale RP, Gupta V, Hamilton BK, Kharfan-Dabaja MA, Marks DI, Ringdén OT, Socié G, Solh MM, Akpek G, Cairo MS, Chao NJ, Hayashi RJ, Nishihori T, Reshef R, Saad A, Shah A, Teshima T, Tallman MS, Wirk B, Spellman SR, Arora M, Martin PJ. Tacrolimus versus Cyclosporine after Hematopoietic Cell Transplantation for Acquired Aplastic Anemia. *Biol Blood Marrow Transplant.* 2015 Oct;21(10):1776-82. PMID: PMC4568149
 49. Davies SM, Wang D, **Wang T**, Arora M, Ringden O, Anasetti C, Pavletic S, Casper J, Macmillan ML, Sanders J, Wall D, Kernan NA. Recent decrease in acute graft-versus-host disease in children with leukemia receiving unrelated donor bone marrow transplants. *Biol Blood Marrow Transplant.* 2009 Mar;15(3):360-6. PMID: PMC3365559
 50. Ringdén O, Pavletic SZ, Anasetti C, Barrett AJ, **Wang T**, Wang D, Antin JH, Di Bartolomeo P, Bolwell BJ, Bredeson C, Cairo MS, Gale RP, Gupta V, Hahn T, Hale GA, Halter J, Jagasia M, Litzow MR, Locatelli F, Marks DI, McCarthy PL, Cowan MJ, Petersdorf EW, Russell JA, Schiller GJ, Schouten H, Spellman S, Verdonck LF, Wingard JR, Horowitz MM, Arora M. The graft-versus-leukemia effect using matched unrelated donors is not superior to HLA-identical siblings for hematopoietic stem cell transplantation. *Blood.* 2009 Mar 26;113(13):3110-8. PMID: PMC2662650
 51. Hill GD, Hehir DA, Bartz PJ, Rudd NA, Frommelt MA, Slicker J, Tanem J, Frontier K, Xiang Q, **Wang T**, Tweddell JS, Ghanayem NS. Effect of feeding modality on interstage growth after stage I palliation: a report from the National Pediatric Cardiology Quality Improvement Collaborative. *J Thorac Cardiovasc Surg.* 2014 Oct;148(4):1534-9. PMID: PMC4126898
 52. Petersdorf EW, Malkki M, O'hUigin C, Carrington M, Gooley T, Haagenson MD, Horowitz MM, Spellman SR, **Wang T**, Stevenson P. High HLA-DP Expression and Graft-versus-Host Disease. *N Engl J Med.* 2015 Aug 13;373(7):599-609. PMID: PMC4560117
 53. Jindra PT, Conway SE, Ricklefs SM, Porcella SF, Anzick SL, Haagenson M, **Wang T**, Spellman S, Milford E, Kraft P, McDermott DH, Abdi R. Analysis of a Genetic Polymorphism in the Costimulatory Molecule TNFSF4 with Hematopoietic Stem Cell Transplant Outcomes. *Biol Blood Marrow Transplant.* 2016 Jan;22(1):27-36. PMID: PMC4743880
 54. Knight JM, Rizzo JD, Logan BR, **Wang T**, Arevalo JM, Ma J, Cole SW. Low Socioeconomic Status, Adverse Gene Expression Profiles, and Clinical Outcomes in Hematopoietic Stem Cell Transplant Recipients. *Clin Cancer Res.* 2016 Jan 01;22(1):69-78. PMID: PMC4703514
 55. Bachanova V, Weisdorf DJ, **Wang T**, Marsh SGE, Trachtenberg E, Haagenson MD, Spellman SR, Ladner M, Guethlein LA, Parham P, Miller JS, Cooley SA. Donor KIR B Genotype Improves Progression-Free Survival of Non-Hodgkin Lymphoma Patients Receiving Unrelated Donor Transplantation. *Biol Blood Marrow Transplant.* 2016 Sep;22(9):1602-1607. PMID: PMC4981536
 56. Marino SR, Lee SM, Binkowski TA, **Wang T**, Haagenson M, Wang HL, Maiers M, Spellman S, van Besien K, Lee SJ, Karrison T, Artz A. Identification of high-risk amino-acid substitutions in hematopoietic cell transplantation: a challenging task. *Bone Marrow Transplant.* 2016 Oct;51(10):1342-1349. PMID: PMC5052106
 57. Rocha V, Ruggeri A, Spellman S, **Wang T**, Sobecks R, Locatelli F, Askar M, Michel G, Arcese W, Iori AP,

- Purtill D, Danby R, Sanz GF, Gluckman E, Eapen M, Eurocord, Cord Blood Committee Cellular Therapy Immunobiology Working Party of the European Group for Blood and Marrow Transplantation, Netcord, and the Center for International Blood and Marrow Transplant Research. Killer Cell Immunoglobulin-Like Receptor-Ligand Matching and Outcomes after Unrelated Cord Blood Transplantation in Acute Myeloid Leukemia. *Biol Blood Marrow Transplant*. 2016 Jul;22(7):1284-1289. PMID: PMC4915071
58. Hoff GA, Fischer JC, Hsu K, Cooley S, Miller JS, **Wang T**, Haagenson M, Spellman S, Lee SJ, Uhrberg M, Venstrom JM, Verneris MR. Recipient HLA-C Haplotypes and microRNA 148a/b Binding Sites Have No Impact on Allogeneic Hematopoietic Cell Transplantation Outcomes. *Biol Blood Marrow Transplant*. 2017 Jan;23(1):153-160. PMID: PMC5198579
59. Gadalla SM, **Wang T**, Dagnall C, Haagenson M, Spellman SR, Hicks B, Jones K, Katki HA, Lee SJ, Savage SA. Effect of Recipient Age and Stem Cell Source on the Association between Donor Telomere Length and Survival after Allogeneic Unrelated Hematopoietic Cell Transplantation for Severe Aplastic Anemia. *Biol Blood Marrow Transplant*. 2016 Dec;22(12):2276-2282. PMID: PMC5116252
60. Goyal RK, Lee SJ, **Wang T**, Trucco M, Haagenson M, Spellman SR, Verneris M, Ferrell RE. Novel HLA-DP region susceptibility loci associated with severe acute GvHD. *Bone Marrow Transplant*. 2017 Jan;52(1):95-100. PMID: PMC5215038
61. **Wang T**. Analysis of Variance Components for Genetic Markers with Unphased Genotypes. *Front Genet*. 2016;7:123. PMID: PMC4942470
62. Kornblit B, **Wang T**, Lee SJ, Spellman SR, Zhu X, Fleischhauer K, Müller C, Verneris MR, Müller K, Johansen JS, Vindelov L, Garred P. YKL-40 in allogeneic hematopoietic cell transplantation after AML and myelodysplastic syndrome. *Bone Marrow Transplant*. 2016 Dec;51(12):1556-1560. PMID: PMC5143177
63. Chen YB, **Wang T**, Hemmer MT, Brady C, Couriel DR, Alousi A, Pidala J, Urbano-Ispizua A, Choi SW, Nishihori T, Teshima T, Inamoto Y, Wirk B, Marks DI, Abdel-Azim H, Lehmann L, Yu L, Bitan M, Cairo MS, Qayed M, Salit R, Gale RP, Martino R, Jaglowski S, Bajel A, Savani B, Frangoul H, Lewis ID, Storek J, Askar M, Kharfan-Dabaja MA, Aljurf M, Ringden O, Reshef R, Olsson RF, Hashmi S, Seo S, Spitzer TR, MacMillan ML, Lazaryan A, Spellman SR, Arora M, Cutler CS. GvHD after umbilical cord blood transplantation for acute leukemia: an analysis of risk factors and effect on outcomes. *Bone Marrow Transplant*. 2017 Mar;52(3):400-408. PMID: PMC5332289
64. Askar M, Sobecks R, **Wang T**, Haagenson M, Majhail N, Madbouly A, Thomas D, Zhang A, Fleischhauer K, Hsu K, Verneris M, Lee SJ, Spellman SR, Fernández-Viña M. MHC Class I Chain-Related Gene A (MICA) Donor-Recipient Mismatches and MICA-129 Polymorphism in Unrelated Donor Hematopoietic Cell Transplantations Has No Impact on Outcomes in Acute Lymphoblastic Leukemia, Acute Myeloid Leukemia, or Myelodysplastic Syndrome: A Center for International Blood and Marrow Transplant Research Study. *Biol Blood Marrow Transplant*. 2017 Mar;23(3):436-444. PMID: PMC5370205
65. Wang Y, **Wang T**, Dagnall C, Haagenson M, Spellman SR, Hicks B, Jones K, Lee SJ, Savage SA, Gadalla SM. Relative Telomere Length before Hematopoietic Cell Transplantation and Outcome after Unrelated Donor Hematopoietic Cell Transplantation for Acute Leukemia. *Biol Blood Marrow Transplant*. 2017 Jul;23(7):1054-1058. PMID: PMC5657243
66. Khoury HJ, **Wang T**, Hemmer MT, Couriel D, Alousi A, Cutler C, Aljurf M, Antin JH, Ayas M, Battiwalla M, Cahn JY, Cairo M, Chen YB, Gale RP, Hashmi S, Hayashi RJ, Jagasia M, Juckett M, Kamble RT, Kharfan-Dabaja M, Litzow M, Majhail N, Miller A, Nishihori T, Qayed M, Schoemans H, Schouten HC, Socie G, Storek J, Verdonck L, Vij R, Wood WA, Yu L, Martino R, Carabasi M, Dandoy C, Gergis U, Hematti P, Solh M, Jamani K, Lehmann L, Savani B, Schultz KR, Wirk BM, Spellman S, Arora M, Pidala J. Improved survival after acute graft-versus-host disease diagnosis in the modern era. *Haematologica*. 2017 May;102(5):958-966. PMID: PMC5477615
67. Madbouly A, **Wang T**, Haagenson M, Paunic V, Vierra-Green C, Fleischhauer K, Hsu KC, Verneris MR, Majhail NS, Lee SJ, Spellman SR, Maiers M. Investigating the Association of Genetic Admixture and Donor/Recipient Genetic Disparity with Transplant Outcomes. *Biol Blood Marrow Transplant*. 2017 Jun;23(6):1029-1037. PMID: PMC5541944
68. Lindsley RC, Saber W, Mar BG, Redd R, **Wang T**, Haagenson MD, Grauman PV, Hu ZH, Spellman SR, Lee SJ, Verneris MR, Hsu K, Fleischhauer K, Cutler C, Antin JH, Neuberg D, Ebert BL. Prognostic Mutations in Myelodysplastic Syndrome after Stem-Cell Transplantation. *N Engl J Med*. 2017 Feb 09;376(6):536-547. PMID: PMC5438571

69. Eapen M, **Wang T**, Veys PA, Boelens JJ, St Martin A, Spellman S, Bonfim CS, Brady C, Cant AJ, Dalle JH, Davies SM, Freeman J, Hsu KC, Fleischhauer K, Kenzey C, Kurtzberg J, Michel G, Orchard PJ, Paviglianiti A, Rocha V, Veneris MR, Volt F, Wynn R, Lee SJ, Horowitz MM, Gluckman E, Ruggeri A. Allele-level HLA matching for umbilical cord blood transplantation for non-malignant diseases in children: a retrospective analysis. *Lancet Haematol*. 2017 Jul;4(7):e325-e333. PMID: PMC5699478
70. Gadalla SM, **Wang T**, Loftus D, Friedman L, Dagnall C, Haagenson M, Spellman SR, Buturovic L, Blauwkamp M, Shelton J, Fleischhauer K, Hsu KC, Verneris MR, Krstajic D, Hicks B, Jones K, Lee SJ, Savage SA. No association between donor telomere length and outcomes after allogeneic unrelated hematopoietic cell transplant in patients with acute leukemia. *Bone Marrow Transplant*. 2018 Apr;53(4):383-391. PMID: PMC5898974
71. Qayed M, **Wang T**, Hemmer MT, Spellman S, Arora M, Couriel D, Alousi A, Pidala J, Abdel-Azim H, Aljurf M, Ayas M, Bitan M, Cairo M, Choi SW, Dandoy C, Delgado D, Gale RP, Hale G, Frangoul H, Kamble RT, Kharfan-Dabaja M, Lehman L, Levine J, MacMillan M, Marks DI, Nishihori T, Olsson RF, Hematti P, Ringden O, Saad A, Satwani P, Savani BN, Schultz KR, Seo S, Shenoy S, Waller EK, Yu L, Horowitz MM, Horan J. Influence of Age on Acute and Chronic GVHD in Children Undergoing HLA-Identical Sibling Bone Marrow Transplantation for Acute Leukemia: Implications for Prophylaxis. *Biol Blood Marrow Transplant*. 2018 Mar;24(3):521-528. PMID: PMC5826854
72. William BM, **Wang T**, Haagenson MD, Fleischhauer K, Verneris M, Hsu KC, de Lima MJ, Fernandez-Viña M, Spellman SR, Lee SJ, Hill BT. Impact of HLA Alleles on Outcomes of Allogeneic Transplantation for B Cell Non-Hodgkin Lymphomas: A Center for International Blood and Marrow Transplant Research Analysis. *Biol Blood Marrow Transplant*. 2018 Apr;24(4):827-831. PMID: PMC5902644
73. Buturovic L, Shelton J, Spellman SR, **Wang T**, Friedman L, Loftus D, Hesterberg L, Woodring T, Fleischhauer K, Hsu KC, Verneris MR, Haagenson M, Lee SJ. Evaluation of a Machine Learning-Based Prognostic Model for Unrelated Hematopoietic Cell Transplantation Donor Selection. *Biol Blood Marrow Transplant*. 2018 Jun;24(6):1299-1306. PMID: PMC5993610
74. Turcotte LM, **Wang T**, Hemmer MT, Spellman SR, Arora M, Couriel D, Alousi A, Pidala J, Abdel-Azim H, Ahmed I, Beitinjaneh A, Buchbinder D, Byrne M, Callander N, Chao N, Choi SW, DeFilipp Z, Gadalla SM, Gale RP, Gergis U, Hashmi S, Hematti P, Holmberg L, Inamoto Y, Kamble RT, Lehmann L, MacMillan MA, McIver Z, Nishihori T, Norkin M, O'Brien T, Olsson RF, Reshef R, Saad A, Savani BN, Schouten HC, Seo S, Solh M, Verdonck L, Vij R, Wirk B, Yared J, Horowitz MM, Knight JM, Verneris MR. Donor body mass index does not predict graft versus host disease following hematopoietic cell transplantation. *Bone Marrow Transplant*. 2018 Jul;53(7):932-937. PMID: PMC6041147
75. Gadalla SM, Aubert G, **Wang T**, Haagenson M, Spellman SR, Wang L, Katki HA, Savage SA, Lee SJ. Donor telomere length and causes of death after unrelated hematopoietic cell transplantation in patients with marrow failure. *Blood*. 2018 May 24;131(21):2393-2398. PMID: PMC5969378
76. Cheng Y, Song H, Pan X, Xue H, Wan Y, **Wang T**, Tian Z, Hou E, Lanza IR, Liu P, Liu Y, Laud PW, Usa K, He Y, Liang M. Urinary Metabolites Associated with Blood Pressure on a Low- or High-Sodium Diet. *Theranostics*. 2018;8(6):1468-1480. PMID: PMC5858161
77. Petersdorf EW, Stevenson P, Malkki M, Strong RK, Spellman SR, Haagenson MD, Horowitz MM, Gooley T, **Wang T**. Patient HLA Germline Variation and Transplant Survivorship. *J Clin Oncol*. 2018 Aug 20;36(24):2524-2531. PMID: PMC6097831
78. Wang Y, Zhou W, Alter BP, **Wang T**, Spellman SR, Haagenson M, Yeager M, Lee SJ, Chanock SJ, Savage SA, Gadalla SM. Chromosomal Aberrations and Survival after Unrelated Donor Hematopoietic Stem Cell Transplant in Patients with Fanconi Anemia. *Biol Blood Marrow Transplant*. 2018 Oct;24(10):2003-2008. PMID: PMC6239962
79. Alousi A, **Wang T**, Hemmer MT, Spellman SR, Arora M, Couriel DR, Pidala J, Anderlini P, Boyiadzis M, Bredeson CN, Cahn JY, Cairo MS, Gadalla SM, Hashmi SK, Gale RP, Kanda J, Kamble RT, Kharfan-Dabaja MA, Litzow MR, Ringden O, Saad AA, Schultz KR, Verdonck LF, Waller EK, Yared JA, Holtan SG, Weisdorf DJ. Peripheral Blood versus Bone Marrow from Unrelated Donors: Bone Marrow Allografts Have Improved Long-Term Overall and Graft-versus-Host Disease-Free, Relapse-Free Survival. *Biol Blood Marrow Transplant*. 2019 Feb;25(2):270-278. PMID: PMC6339839
80. Woolfrey A, **Wang T**, Lee SJ, Haagenson MD, Chen G, Fleischhauer K, Horan J, Hsu K, Verneris M, Spellman SR, Fernandez-Vina M. Donor-specific anti-HLA antibodies in unrelated hematopoietic cell transplantation for non-malignant disorders. *Bone Marrow Transplant*. 2019 Mar;54(3):494-496. PMID: PMC6420380
81. Weisdorf D, Cooley S, **Wang T**, Trachtenberg E, Haagenson MD, Vierra-Green C, Spellman S, Spahn A,

- Vogel J, Kobusingye H, Fehninger T, Woolfrey A, Devine S, Ross M, Waller EK, Sobecks R, Parham P, Guethlein LA, Marsh SGE, Miller J, participating center writing committee. KIR Donor Selection: Feasibility in Identifying better Donors. *Biol Blood Marrow Transplant*. 2019 Jan;25(1):e28-e32. PMID: PMC6310641
82. Turcotte LM, **Wang T**, Hemmer MT, Spellman SR, Arora M, Yingst A, Couriel D, Alousi A, Pidala J, Knight JM, Verneris MR. Proinflammatory Cytokine and Adipokine Levels in Adult Unrelated Marrow Donors Are Not Associated with Hematopoietic Cell Transplantation Outcomes. *Biol Blood Marrow Transplant*. 2019 Jan;25(1):12-18. PMID: PMC6366664
83. Nikiforow S, **Wang T**, Hemmer M, Spellman S, Akpek G, Antin JH, Choi SW, Inamoto Y, Khoury HJ, MacMillan M, Marks DI, Meehan K, Nakasone H, Nishihori T, Olsson R, Paczesny S, Przepiorka D, Reddy V, Reshef R, Schoemans H, Waller N, Weisdorf D, Wirk B, Horowitz M, Alousi A, Couriel D, Pidala J, Arora M, Cutler C, GV12-02 Writing Committee on behalf of the CIBMTR® Graft-versus-Host Disease Working Committee. Upper gastrointestinal acute graft-versus-host disease adds minimal prognostic value in isolation or with other graft-versus-host disease symptoms as currently diagnosed and treated. *Haematologica*. 2018 Oct;103(10):1708-1719. PMID: PMC6165812
84. Kiernan CM, **Wang T**, Perrier ND, Grubbs EG, Solórzano CC. Bilateral Neck Exploration for Sporadic Primary Hyperparathyroidism: Use Patterns in 5,597 Patients Undergoing Parathyroidectomy in the Collaborative Endocrine Surgery Quality Improvement Program. *J Am Coll Surg*. 2019 Apr;228(4):652-659.
85. Bachanova V, Weisdorf DJ, **Wang T**, Marsh SGE, Cereb N, Haagenson MD, Spellman SR, Lee SJ, Guethlein LA, Parham P, Miller JS, Cooley SA. Donor Killer Cell Immunoglobulin-Like Receptor Genotype Does Not Improve Graft-versus-Leukemia Responses in Chronic Lymphocytic Leukemia after Unrelated Donor Transplant: A Center for International Blood and Marrow Transplant Research Analysis. *Biol Blood Marrow Transplant*. 2019 May;25(5):949-954. PMID: PMC6511301
86. Carroll TB, Peppard WJ, Herrmann DJ, Javorsky BR, **Wang TS**, Patel H, Zarnecki K, Findling JW. Continuous Etomidate Infusion for the Management of Severe Cushing Syndrome: Validation of a Standard Protocol. *J Endocr Soc*. 2019 Jan 01;3(1):1-12. PMID: PMC6291660
87. Askar M, Sayer D, **Wang T**, Haagenson M, Spellman SR, Lee SJ, Madbouly A, Fleischhauer K, Hsu KC, Verneris MR, Thomas D, Zhang A, Sobecks RM, Majhail NS, Center for International Blood and Marrow Transplant Research Immunology Working Committee. Analysis of Single Nucleotide Polymorphisms in the Gamma Block of the Major Histocompatibility Complex in Association with Clinical Outcomes of Hematopoietic Cell Transplantation: A Center for International Blood and Marrow Transplant Research Study. *Biol Blood Marrow Transplant*. 2019 Apr;25(4):664-672. PMID: PMC6453713
88. McCune JS, **Wang T**, Bo-Subait K, Aljurf M, Beitinjaneh A, Bubalo J, Cahn JY, Cerny J, Chhabra S, Cumpston A, Dupuis LL, Lazarus HM, Marks DI, Maziarz RT, Norkin M, Prestidge T, Mineishi S, Krem MM, Pasquini M, Martin PJ. Association of Antiepileptic Medications with Outcomes after Allogeneic Hematopoietic Cell Transplantation with Busulfan/Cyclophosphamide Conditioning. *Biol Blood Marrow Transplant*. 2019 Jul;25(7):1424-1431. PMID: PMC6615968
89. Saad A, Lamb L, **Wang T**, Hemmer MT, Spellman S, Couriel D, Alousi A, Pidala J, Abdel-Azim H, Agrawal V, Aljurf M, Beitinjaneh AM, Bhatt VR, Buchbinder D, Byrne M, Cahn JY, Cairo M, Castillo P, Chhabra S, Diaz MA, Farhan S, Floisand Y, Frangoul HA, Gadalla SM, Gajewski J, Gale RP, Gandhi M, Gergis U, Hamilton BK, Hematti P, Hildebrandt GC, Kamble RT, Kanate AS, Khandelwal P, Lazaryan A, MacMillan M, Marks DI, Martino R, Mehta PA, Nishihori T, Olsson RF, Patel SS, Qayed M, Rangarajan HG, Reshef R, Ringden O, Savani BN, Schouten HC, Schultz KR, Seo S, Shaffer BC, Solh M, Teshima T, Urbano-Ispizua A, Verdonck LF, Vij R, Waller EK, William B, Wirk B, Yared JA, Yu LC, Arora M, Hashmi S. Impact of T Cell Dose on Outcome of T Cell-Replete HLA-Matched Allogeneic Peripheral Blood Stem Cell Transplantation. *Biol Blood Marrow Transplant*. 2019 Sep;25(9):1875-1883. PMID: PMC7071947
90. Grosshuesch C, Johnson WK, DeVogel N, Yin Z, **Wang T**, Kindel SJ, Woods RK. Brain death interval and relationship to outcomes of pediatric cardiac transplantation. *Pediatr Transplant*. 2019 Jun;23(4):e13426.
91. Mehta RS, Holtan SG, **Wang T**, Hemmer MT, Spellman SR, Arora M, Couriel DR, Alousi AM, Pidala J, Abdel-Azim H, Ahmed I, Aljurf M, Askar M, Auletta JJ, Bhatt V, Bredeson C, Chhabra S, Gadalla S, Gajewski J, Gale RP, Gergis U, Hematti P, Hildebrandt GC, Inamoto Y, Kitko C, Khandelwal P, MacMillan ML, Majhail N, Marks DI, Mehta P, Nishihori T, Olsson RF, Pawarode A, Diaz MA, Prestidge T, Qayed M, Rangarajan H, Ringden O, Saad A, Savani BN, Seo S, Shah A, Shah N, Schultz

- KR, Solh M, Spitzer T, Szer J, Teshima T, Verdonck LF, Williams KM, Wirk B, Wagner J, Yared JA, Weisdorf DJ. GRFS and CRFS in alternative donor hematopoietic cell transplantation for pediatric patients with acute leukemia. *Blood Adv.* 2019 May 14;3(9):1441-1449. PMID: PMC6517657
92. Sabloff M, Chhabra S, **Wang T**, Fretham C, Kekre N, Abraham A, Adekola K, Auletta JJ, Barker C, Beitinjaneh AM, Bredeson C, Cahn JY, Diaz MA, Freytes C, Gale RP, Ganguly S, Gergis U, Guinan E, Hamilton BK, Hashmi S, Hematti P, Hildebrandt G, Holmberg L, Hong S, Lazarus HM, Martino R, Muffly L, Nishihori T, Perales MA, Yared J, Mineishi S, Stadtmauer EA, Pasquini MC, Loren AW. Comparison of High Doses of Total Body Irradiation in Myeloablative Conditioning before Hematopoietic Cell Transplantation. *Biol Blood Marrow Transplant.* 2019 Dec;25(12):2398-2407. PMID: PMC7304318
93. Karaesmen E, Hahn T, Dile AJ, Rizvi AA, Wang J, **Wang T**, Haagenson MD, Preus L, Zhu Q, Liu Q, Yan L, Liu S, Haiman CA, Stram D, Pooler L, Sheng X, Van Den Berg D, Brock G, Webb A, McCarthy PL, Pasquini MC, Spellman SR, Lee SJ, Paczesny S, Sucheston-Campbell LE. Multiple functional variants in the *IL1RL1* region are pretransplant markers for risk of GVHD and infection deaths. *Blood Adv.* 2019 Aug 27;3(16):2512-2524. PMID: PMC6712530
94. Tsamadou C, Fürst D, **Wang T**, He N, Lee SJ, Spellman SR, Fleischhauer K, Hsu KC, Paczesny S, Verneris MR, Schrezenmeier H, Mytilineos J. Donor HLA-E Status Associates with Disease-Free Survival and Transplant-Related Mortality after Non In Vivo T Cell-Depleted HSCT for Acute Leukemia. *Biol Blood Marrow Transplant.* 2019 Dec;25(12):2357-2365. PMID: PMC7050288
95. Wang Y, McReynolds LJ, Dagnall C, Katki HA, Spellman SR, **Wang T**, Hicks B, Freedman ND, Jones K, Lee SJ, Savage SA, Gadalla SM. Pre-transplant short telomeres are associated with high mortality risk after unrelated donor haematopoietic cell transplant for severe aplastic anaemia. *Br J Haematol.* 2020 Jan;188(2):309-316. PMID: PMC6980174
96. Tang H, Hahn T, Karaesmen E, Rizvi AA, Wang J, Paczesny S, **Wang T**, Preus L, Zhu Q, Wang Y, Haiman CA, Stram D, Pooler L, Sheng X, Van Den Berg D, Brock G, Webb A, Pasquini MC, McCarthy PL, Spellman SR, Sucheston-Campbell LE. Validation of genetic associations with acute GVHD and nonrelapse mortality in DISCOVeRY-BMT. *Blood Adv.* 2019 Aug 13;3(15):2337-2341. PMID: PMC6693017
97. **Wang T**, DeVogel N. A revisit to two-way factorial ANOVA with mixed effects and interactions *Communications in Statistics - Theory and Methods.* 249(19): 4618-4635. 2020.
98. Krakow EF, Hemmer M, **Wang T**, Logan B, Arora M, Spellman S, Couriel D, Alousi A, Pidala J, Last M, Lachance S, Moodie EEM. Tools for the Precision Medicine Era: How to Develop Highly Personalized Treatment Recommendations From Cohort and Registry Data Using Q-Learning. *Am J Epidemiol.* 2017 Jul 15;186(2):160-172. PMID: PMC6664807
99. Lazaryan A, **Wang T**, Spellman SR, Wang HL, Pidala J, Nishihori T, Askar M, Olsson R, Oudshoorn M, Abdel-Azim H, Yong A, Gandhi M, Dandoy C, Savani B, Hale G, Page K, Bitan M, Reshef R, Drobyski W, Marsh SG, Schultz K, Müller CR, Fernandez-Viña MA, Verneris MR, Horowitz MM, Arora M, Weisdorf DJ, Lee SJ. Human leukocyte antigen supertype matching after myeloablative hematopoietic cell transplantation with 7/8 matched unrelated donor allografts: a report from the Center for International Blood and Marrow Transplant Research. *Haematologica.* 2016 Oct;101(10):1267-1274. PMID: PMC5046657
100. Arora M, Lee SJ, Spellman SR, Weisdorf DJ, Guan W, Haagenson M, **Wang T**, Horowitz MH, Verneris MR, Fleischhauer K, Hsu K, Thyagarajan B. Validation Study Failed to Confirm an Association between Genetic Variants in the Base Excision Repair Pathway and Transplant-Related Mortality and Relapse after Hematopoietic Cell Transplantation. *Biol Blood Marrow Transplant.* 2016 Aug;22(8):1531-1532. PMID: PMC5364725
101. Broux B, Shamim Z, **Wang T**, Spellman S, Haagenson M, Stinissen P, Ryder LP, Müller K, Hellings N. The influence of interleukin-7 receptor γ -chain haplotypes on outcome after allogeneic hematopoietic cell transplantation. *Int J Immunogenet.* 2014 Dec;41(6):521-7. PMID: PMC4238034
102. Vierra-Green C, Roe D, Hou L, Hurley CK, Rajalingam R, Reed E, Lebedeva T, Yu N, Stewart M, Noreen H, Hollenbach JA, Guethlein LA, **Wang T**, Spellman S, Maiers M. Allele-level haplotype frequencies and pairwise linkage disequilibrium for 14 KIR loci in 506 European-American individuals. *PLoS One.* 2012;7(11):e47491. PMID: PMC3489906
103. Isaacson E, Lucjak C, Johnson WK, Yin Z, **Wang T**, Rein L, Woods RK, Tweddell JS, Hraska V, Mitchell ME. Mitral Valve Surgery in Neonates, Infants, and Children: Surgical Approach, Outcomes, and Predictors. *Semin Thorac Cardiovasc Surg.* 2020 Autumn;32(3):541-550.
104. Weisdorf D, Cooley S, **Wang T**, Trachtenberg E, Vierra-Green C, Spellman S, Sees JA, Spahn A, Vogel J,

- Fehniger TA, Woolfrey AE, Devine SM, Ross M, Waller EK, Sobecks RM, McGuirk J, Oran B, Farag SS, Shore T, Van Besien K, Marsh SGE, Guethlein LA, Parham P, Miller JS. KIR B donors improve the outcome for AML patients given reduced intensity conditioning and unrelated donor transplantation. *Blood Adv.* 2020 Feb 25;4(4):740-754. PMID: PMC7042994
105. Savage SA, Viard M, O'hUigin C, Zhou W, Yeager M, Li SA, **Wang T**, Ramsuran V, Vince N, Vogt A, Hicks B, Burdett L, Chung C, Dean M, de Andrade KC, Freedman ND, Berndt SI, Rothman N, Lan Q, Cerhan JR, Slager SL, Zhang Y, Teras LR, Haagenson M, Chanock SJ, Spellman SR, Wang Y, Willis A, Askar M, Lee SJ, Carrington M, Gadalla SM. Genome-wide Association Study Identifies HLA-DPB1 as a Significant Risk Factor for Severe Aplastic Anemia. *Am J Hum Genet.* 2020 Feb 06;106(2):264-271. PMID: PMC7010969
106. McReynolds LJ, Wang Y, Thompson AS, Ballew BJ, Kim J, Alter BP, Hicks B, Zhu B, Jones K, Spellman SR, **Wang T**, Lee SJ, Savage SA, Gadalla SM. Population Frequency of Fanconi Pathway Gene Variants and Their Association with Survival After Hematopoietic Cell Transplantation for Severe Aplastic Anemia. *Biol Blood Marrow Transplant.* 2020 May;26(5):817-822. PMID: PMC7243455
107. Verneris MR, Miller JS, Hsu KC, **Wang T**, Sees JA, Paczesny S, Rangarajan H, Lee DA, Spellman SR, Lee SJ. Investigation of donor KIR content and matching in children undergoing hematopoietic cell transplantation for acute leukemia. *Blood Adv.* 2020 Apr 14;4(7):1350-1356. PMID: PMC7160272
108. Im A, Rashidi A, **Wang T**, Hemmer M, MacMillan ML, Pidala J, Jagasia M, Pavletic S, Majhail NS, Weisdorf D, Abdel-Azim H, Agrawal V, Al-Homsi AS, Aljurf M, Askar M, Auletta JJ, Bashey A, Beitinjaneh A, Bhatt VR, Byrne M, Cahn JY, Cairo M, Castillo P, Cerny J, Chhabra S, Choe H, Ciurea S, Daly A, Perez MAD, Farhadfar N, Gadalla SM, Gale R, Ganguly S, Gergis U, Hanna R, Hematti P, Herzig R, Hildebrandt GC, Lad DP, Lee C, Lehmann L, Lekakis L, Kamble RT, Kharfan-Dabaja MA, Khandelwal P, Martino R, Murthy HS, Nishihori T, O'Brien TA, Olsson RF, Patel SS, Perales MA, Prestidge T, Qayed M, Romee R, Schoemans H, Seo S, Sharma A, Solh M, Strair R, Teshima T, Urbano-Ispizua A, Van der Poel M, Vij R, Wagner JL, William B, Wirk B, Yared JA, Spellman SR, Arora M, Hamilton BK. Risk Factors for Graft-versus-Host Disease in Haploidentical Hematopoietic Cell Transplantation Using Post-Transplant Cyclophosphamide. *Biol Blood Marrow Transplant.* 2020 Aug;26(8):1459-1468. PMID: PMC7391266
109. Mehta RS, Holtan SG, **Wang T**, Hemmer MT, Spellman SR, Arora M, Couriel DR, Alousi AM, Pidala J, Abdel-Azim H, Agrawal V, Ahmed I, Al-Homsi AS, Aljurf M, Antin JH, Askar M, Auletta JJ, Bhatt VR, Chee L, Chhabra S, Daly A, DeFilipp Z, Gajewski J, Gale RP, Gergis U, Hematti P, Hildebrandt GC, Hogan WJ, Inamoto Y, Martino R, Majhail NS, Marks DI, Nishihori T, Olsson RF, Pawarode A, Diaz MA, Prestidge T, Rangarajan HG, Ringden O, Saad A, Savani BN, Schoemans H, Seo S, Schultz KR, Solh M, Spitzer T, Storek J, Teshima T, Verdonck LF, Wirk B, Yared JA, Cahn JY, Weisdorf DJ. Composite GRFS and CRFS Outcomes After Adult Alternative Donor HCT. *J Clin Oncol.* 2020 Jun 20;38(18):2062-2076. PMID: PMC7302955
110. Knight JM, Rizzo JD, **Wang T**, He N, Logan BR, Spellman SR, Lee SJ, Verneris MR, Arevalo JMG, Cole SW. Molecular Correlates of Socioeconomic Status and Clinical Outcomes Following Hematopoietic Cell Transplantation for Leukemia. *JNCI Cancer Spectr.* 2019 Dec;3(4):pkz073. PMID: PMC6859844
111. Kidambi S, **Wang T**, Chelius T, Nunuk I, Agarwal P, Laud P, Mattson D, Cowley AW Jr, Liang M, Kotchen T. Twenty-four-hour versus clinic blood pressure levels as predictors of long-term cardiovascular and renal disease outcomes among African Americans. *Sci Rep.* 2020 Jul 15;10(1):11685. PMID: PMC7363933
112. Nazha A, Hu ZH, **Wang T**, Lindsley RC, Abdel-Azim H, Aljurf M, Bacher U, Bashey A, Cahn JY, Cerny J, Copelan E, DeFilipp Z, Diaz MA, Farhadfar N, Gadalla SM, Gale RP, George B, Gergis U, Grunwald MR, Hamilton B, Hashmi S, Hildebrandt GC, Inamoto Y, Kalaycio M, Kamble RT, Kharfan-Dabaja MA, Lazarus HM, Liesveld JL, Litzow MR, Majhail NS, Murthy HS, Nathan S, Nishihori T, Pawarode A, Rizzieri D, Sabloff M, Savani BN, Schachter L, Schouten HC, Seo S, Shah NN, Solh M, Valcárcel D, Vij R, Warlick E, Wirk B, Wood WA, Yared JA, Alyea E, Popat U, Sobecks RM, Scott BL, Nakamura R, Saber W. A Personalized Prediction Model for Outcomes after Allogeneic Hematopoietic Cell Transplant in Patients with Myelodysplastic Syndromes. *Biol Blood Marrow Transplant.* 2020 Nov;26(11):2139-2146. PMID: PMC7609542
113. Gadalla SM, Wang Y, **Wang T**, Onabajo OO, Banday AR, Obajemu A, Karaesman E, Sucheston-Campbell L, Hahn T, Sees JA, Spellman SR, Lee SJ, Katki HA, Prokunina-Olsson L. Association of donor IFNL4 genotype and non-relapse mortality after unrelated donor myeloablative haematopoietic stem-cell transplantation for acute leukaemia: a retrospective cohort study *The Lancet Haematology.*

October 2020;7(10):e715-e723.

114. Gadalla SM, Wang Y, **Wang T**, Onabajo OO, Banday AR, Obajemu A, Karaesman E, Sucheston-Campbell L, Hahn T, Sees JA, Spellman SR, Lee SJ, Katki HA, Prokunina-Olsson L. Association of donor IFNL4 genotype and non-relapse mortality after unrelated donor myeloablative haematopoietic stem-cell transplantation for acute leukaemia: a retrospective cohort study. *Lancet Haematol.* 2020 Oct;7(10):e715-e723. PMID: PMC7735535
115. Dhakal B, **Wang T**, Kuxhausen M, Zhu F, Taylor C, Spellman SR, Verneris MR, Hsu K, Fleischhauer K, Lee SJ, Bolon YT, Carlson KS, Nazha A, Saber W. Prognostic impact of serum CXCL chemokine ligands 4 and 7 on myelodysplastic syndromes post allogeneic hematopoietic cell transplant. *Leuk Lymphoma.* 2021 Jan;62(1):229-233. PMID: PMC7939047
116. Myllymäki M, Redd RA, Reilly CR, Saber W, Spellman S, Gibson CJ, Hu ZH, **Wang T**, Orr EH, Grenier JG, Chen MM, Steensma DP, Cutler C, De Vivo I, Antin JH, Neuberger D, Agarwal S, Lindsley RC. Short Telomere Length Predicts Non-Relapse Mortality after Stem Cell Transplantation for Myelodysplastic Syndrome. *Blood.* 2020 Aug 17.
117. Camacho-Bydume C, **Wang T**, Sees JA, Fernandez-Viña M, Abid MB, Askar M, Beitinjaneh A, Brown V, Castillo P, Chhabra S, Gadalla SM, Hsu JM, Kamoun M, Lazaryan A, Nishihori T, Page K, Schetelig J, Fleischhauer K, Marsh SGE, Paczesny S, Spellman SR, Lee SJ, Hsu KC. Specific Class I HLA Supertypes but Not HLA Zygosity or Expression Are Associated with Outcomes following HLA-Matched Allogeneic Hematopoietic Cell Transplant: HLA Supertypes Impact Allogeneic HCT Outcomes. *Transplant Cell Ther.* 2021 Feb;27(2):142.e1-142.e11. PMID: PMC8015676
118. DeVogel N, Auer PL, Manansala R, Rau A, **Wang T**. A unified linear mixed model for familial relatedness and population structure in genetic association studies. *Genet Epidemiol.* 2021 Apr;45(3):305-315.
119. Myllymäki M, Redd R, Reilly CR, Saber W, Spellman SR, Gibson CJ, Hu ZH, **Wang T**, Orr EH, Grenier JG, Chen MM, Steensma DP, Cutler C, De Vivo I, Antin JH, Neuberger D, Agarwal S, Lindsley RC. Short telomere length predicts nonrelapse mortality after stem cell transplantation for myelodysplastic syndrome. *Blood.* 2020 Dec 24;136(26):3070-3081. PMID: PMC7770569
120. Wang Y, Zhou W, Wang J, Karaesmen E, Tang H, McCarthy PL, Pasquini MC, Wang Y, McReynolds LJ, Katki HA, Machiela MJ, Yeager M, Pooler L, Sheng X, Haiman CA, Van Den Berg D, Spellman SR, **Wang T**, Kuxhausen M, Chanock SJ, Lee SJ, Clay-Gilmour AI, Hahn TE, Gadalla SM, Sucheston-Campbell LE. Pre-HCT mosaicism increases relapse risk and lowers survival in acute lymphoblastic leukemia patients post-unrelated HCT. *Blood Adv.* 2021 Jan 12;5(1):66-70. PMID: PMC7805319
121. Farhadfar N, Dias A, **Wang T**, Fretham C, Chhabra S, Murthy HS, Broglie L, D'Souza A, Gadalla SM, Gale RP, Hashmi S, Al-Homsi AS, Hildebrandt GC, Hematti P, Rizzieri D, Chee L, Lazarus HM, Bredeson C, Jaimes EA, Beitinjaneh A, Bashey A, Prestidge T, Krem MM, Marks DI, Benoit S, Yared JA, Nishihori T, Olsson RF, Freytes CO, Stadtmauer E, Savani BN, Sorrow ML, Ganguly S, Wingard JR, Pasquini M. Impact of Pretransplantation Renal Dysfunction on Outcomes after Allogeneic Hematopoietic Cell Transplantation. *Transplant Cell Ther.* 2021 May;27(5):410-422. PMID: PMC8168834
122. Elgarten CW, Li Y, Getz KD, Hemmer M, Huang YV, Hall M, **Wang T**, Kitko CL, Jagasia MH, Nishihori T, Murthy HS, Hashem H, Cairo MS, Sharma A, Hashmi SK, Askar M, Beitinjaneh A, Kelly MS, Auletta JJ, Badawy SM, Mavers M, Aplenc R, MacMillan ML, Spellman SR, Arora M, Fisher BT. Broad-Spectrum Antibiotics and Risk of Graft-versus-Host Disease in Pediatric Patients Undergoing Transplantation for Acute Leukemia: Association of Carbapenem Use with the Risk of Acute Graft-versus-Host Disease. *Transplant Cell Ther.* 2021 Feb;27(2):177.e1-177.e8. PMID: PMC7946150
123. Wang Y, Zhou W, McReynolds LJ, Katki HA, Griffiths EA, Thota S, Machiela MJ, Yeager M, McCarthy P, Pasquini M, Wang J, Karaesmen E, Rizvi A, Preus L, Tang H, Wang Y, Pooler L, Sheng X, Haiman CA, Van Den Berg D, Spellman SR, **Wang T**, Kuxhausen M, Chanock SJ, Lee SJ, Hahn TE, Sucheston-Campbell LE, Gadalla SM. Prognostic impact of pre-transplant chromosomal aberrations in peripheral blood of patients undergoing unrelated donor hematopoietic cell transplant for acute myeloid leukemia. *Sci Rep.* 2021 Jul 22;11(1):15004. PMID: PMC8298542
124. Kidambi S, Pan X, Yang C, Liu P, Roberts ML, Li Y, **Wang T**, Laud PW, Liu Y, Rubens M, Thomas R, Widlansky ME, Beyer AM, Liu Y, Cowley AW Jr, Kotchen TA, Munyura Y, Moosreiner A, Mattson DL, Liang M. Dietary Sodium Restriction Results in Tissue-Specific Changes in DNA Methylation in Humans. *Hypertension.* 2021 Aug;78(2):434-446. PMID: PMC9299531
125. Guethlein LA, Beyzaie N, Nemat-Gorgani N, **Wang T**, Ramesh V, Marin WM, Hollenbach JA, Schetelig J, Spellman SR, Marsh SGE, Cooley S, Weisdorf DJ, Norman PJ, Miller JS, Parham P. Following Transplantation for Acute Myelogenous Leukemia, Donor *KIR2DL1* Better Protects

- against Relapse than *KIR Cen B01*. *J Immunol.* 2021 Jun 15;206(12):3064-3072. PMID: PMC8664929
126. Story CM, **Wang T**, Bhatt VR, Battiwalla M, Badawy SM, Kamoun M, Gragert L, Brown V, Baxter-Lowe LA, Marsh SGE, Gadalla SM, Schetelig J, Mytilineos J, Miklos D, Waller EK, Kuxhausen M, Spellman S, Lee S, Paczesny S, Lansford JL, Vincent BG, Riches ML, Armistead PM, Center for International Blood and Marrow Transplant Research Immunobiology Working Committee. Genetics of HLA Peptide Presentation and Impact on Outcomes in HLA-Matched Allogeneic Hematopoietic Cell Transplantation. *Transplant Cell Ther.* 2021 Jul;27(7):591-599. PMID: PMC8343993
 127. Mayor NP, **Wang T**, Lee SJ, Kuxhausen M, Vierra-Green C, Barker DJ, Auletta J, Bhatt VR, Gadalla SM, Gragert L, Inamoto Y, Morris GP, Paczesny S, Reshef R, Ringdén O, Shaw BE, Shaw P, Spellman SR, Marsh SGE. Impact of Previously Unrecognized HLA Mismatches Using Ultrahigh Resolution Typing in Unrelated Donor Hematopoietic Cell Transplantation. *J Clin Oncol.* 2021 Jul 20;39(21):2397-2409. PMID: PMC8280068
 128. Alsaggaf R, Katta S, **Wang T**, Hicks BD, Zhu B, Spellman SR, Lee SJ, Horvath S, Gadalla SM. Epigenetic Aging and Hematopoietic Cell Transplantation in Patients With Severe Aplastic Anemia. *Transplant Cell Ther.* 2021 Apr;27(4):313.e1-313.e8. PMID: PMC8036238
 129. Fuchs EJ, McCurdy SR, Solomon SR, **Wang T**, Herr MR, Modi D, Grunwald MR, Nishihori T, Kuxhausen M, Fingerson S, McKallor C, Bashey A, Kasamon YL, Bolon YT, Saad A, McGuirk J, Paczesny S, Gadalla SM, Marsh SGE, Shaw BE, Spellman SR, Lee SJ, Petersdorf EW. HLA informs risk predictions after haploidentical stem cell transplantation with posttransplantation cyclophosphamide. *Blood.* 2022 Mar 10;139(10):1452-1468. PMID: PMC8914182
 130. Bhatt VR, **Wang T**, Chen K, Kitko CL, MacMillan ML, Pidala JA, Al Malki MM, Badawy SM, Beitinjaneh A, Ganguly S, Hamilton B, Hildebrandt GC, Lekakis LJ, Liu H, Maziarz RT, Modi D, Murthy HS, Preussler JM, Sharma A, Spellman SR, Arora M, Lee SJ. Chronic Graft-versus-Host Disease, Nonrelapse Mortality, and Disease Relapse in Older versus Younger Adults Undergoing Matched Allogeneic Peripheral Blood Hematopoietic Cell Transplantation: A Center for International Blood and Marrow Transplant Research Analysis. *Transplant Cell Ther.* 2022 Jan;28(1):34-42. PMID: PMC8792177
 131. Zou J, **Wang T**, He M, Bolon YT, Gadalla SM, Marsh SGE, Kuxhausen M, Gale RP, Sharma A, Assal A, Prestidge T, Aljurf M, Cerny J, Paczesny S, Spellman SR, Lee SJ, Ciurea SO. Number of HLA-Mismatched Eplets Is Not Associated with Major Outcomes in Haploidentical Transplantation with Post-Transplantation Cyclophosphamide: A Center for International Blood and Marrow Transplant Research Study. *Transplant Cell Ther.* 2022 Feb;28(2):107.e1-107.e8. PMID: PMC8848305
 132. Roberts ML, Kotchen TA, Pan X, Li Y, Yang C, Liu P, **Wang T**, Laud PW, Chelius TH, Munyura Y, Mattson DL, Liu Y, Cowley AW Jr, Kidambi S, Liang M. Unique Associations of DNA Methylation Regions With 24-Hour Blood Pressure Phenotypes in Black Participants. *Hypertension.* 2022 Apr;79(4):761-772. PMID: PMC8917053
 133. Otegbeye F, Vina MAF, **Wang T**, Bolon YT, Lazaryan A, Beitinjaneh A, Bhatt VR, Castillo P, Marsh SGE, Hildebrandt GC, Assal A, Brown VI, Hsu J, Spellman S, de Lima M, Lee SJ. Natural Killer Cell Alloreactivity Predicted By Killer Cell Immunoglobulin-Like Receptor Ligand Mismatch Does Not Impact Engraftment in Umbilical Cord Blood and Haploidentical Stem Cell Transplantation. *Transplant Cell Ther.* 2022 Aug;28(8):483.e1-483.e7. PMID: PMC9357149
 134. Logan BR, **Wang T**. Pseudo-value regression models Handbook of Survival Analysis. 19 April 2016:199-219.
 135. Lee CJ, **Wang T**, Chen K, Arora M, Brazauskas R, Spellman SR, Kitko C, MacMillan ML, Pidala JA, Auletta JJ, Badawy SM, Bhatt N, Bhatt VR, Cahn JY, DeFilipp Z, Diaz MA, Farhadfar N, Gadalla S, Gale RP, Hashem H, Hashmi S, Hematti P, Hong S, Hossain NM, Inamoto Y, Lekakis LJ, Modi D, Patel S, Sharma A, Solomon S, Couriel DR. Association of Chronic Graft-versus-Host Disease with Late Effects following Allogeneic Hematopoietic Cell Transplantation for Children with Hematologic Malignancy. *Transplant Cell Ther.* 2022 Oct;28(10):712.e1-712.e8. PMID: PMC9547959
 136. Saliba RM, Alousi AM, Pidala J, Arora M, Spellman SR, Hemmer MT, **Wang T**, Abboud C, Ahmed S, Antin JH, Beitinjaneh A, Buchbinder D, Byrne M, Cahn JY, Choe H, Hanna R, Hematti P, Kamble RT, Kitko CL, Laughlin M, Lekakis L, MacMillan ML, Martino R, Mehta PA, Nishihori T, Patel SS, Perales MA, Rangarajan HG, Ringdén O, Rosenthal J, Savani BN, Schultz KR, Seo S, Teshima T, van der Poel M, Verdonck LF, Weisdorf D, Wirk B, Yared JA, Schriber J, Champlin RE, Ciurea SO. Characteristics of Graft-Versus-Host Disease (GvHD) After Post-Transplantation Cyclophosphamide Versus Conventional GvHD Prophylaxis. *Transplant Cell Ther.* 2022 Oct;28(10):681-693.

137. Arrieta-Bolaños E, Crivello P, He M, **Wang T**, Gadalla SM, Paczesny S, Marsh SGE, Lee SJ, Spellman SR, Bolon YT, Fleischhauer K. A core group of structurally similar HLA-DPB1 alleles drives permissiveness after hematopoietic cell transplantation. *Blood*. 2022 Aug 11;140(6):659-663. PMID: PMC9373015
138. McReynolds LJ, Rafati M, Wang Y, Ballew BJ, Kim J, Williams VV, Zhou W, Hendricks RM, Dagnall C, Freedman ND, Carter B, Stollo S, Hicks B, Zhu B, Jones K, Paczesny S, Marsh SGE, Spellman SR, He M, **Wang T**, Lee SJ, Savage SA, Gadalla SM. Genetic testing in severe aplastic anemia is required for optimal hematopoietic cell transplant outcomes. *Blood*. 2022 Aug 25;140(8):909-921. PMID: PMC9412004