

DIVISION OF BIOSTATISTICS



knowledge changing life

ANNUAL REPORT 2024



A white line drawing of a suspension bridge, such as the Golden Gate Bridge, is centered on a teal background. The bridge's cables and towers are visible. A curved, white, cursive-style text "Bridging the Sciences" is superimposed on the bridge's cables, spanning from the left tower towards the right tower.

Bridging the Sciences

BIOSTATISTICS

TABLE OF CONTENTS

TABLE OF CONTENTS	2 -
EXECUTIVE SUMMARY	3 -
BIOSTATISTICS NEWS	4 -
BIOSTATISTICS FACULTY	6 -
METHODOLOGIC RESEARCH	8 -
COLLABORATIVE APPLIED RESEARCH	10 -
BIOSTATISTICS CONSULTING SERVICE	11 -
2023 FUNDED GRANTS	12 -
APPENDIX 1: METHODOLOGIC PRESENTATIONS.....	21 -
APPENDIX 2: COLLABORATIVE PAPERS & PUBLICATIONS.....	24 -

EXECUTIVE SUMMARY

This document summarizes the activities of the Division of Biostatistics in the Data Science Institute of the Medical College of Wisconsin for 2024.

The division supports the missions of the Medical College of Wisconsin through the graduate and continuing medical professional training in biostatistics; the support of funded research projects in 2024 valued at \$320 million in external funds for MCW; the prominence in the development of novel statistical methods for biomedical data; and the biostatistical consulting service.

In 2024, the division co-authored 148 papers including 33 notable papers in high impact clinical, biomedical, and statistical journals, (Journal of Clinical Oncology, Blood, Nature Genetics, Nature Communications, Science Advances, Hypertension, Journal of Clinical Investigation, Genome Medicine, Biometrics, Clinical Trials, Statistical Methods in Medical Research, Journal of Quality Technology, Statistics in Biopharmaceutical Research, Statistical Papers, Epigenomics, Clinical Spine Surgery, Journal of Scientific Computing, Journal of Hematology and Oncology, Bioengineering, Biometrical Journal, IEEE International Conference on Big Data, Scientific Reports, PLOS One, Journal of Data Science, Statistics in Biosciences), helped investigators successfully apply for 26 new grants worth \$97 million and collaborated on 232 projects through the Biostatistics Consulting Service.

The division faculty have active research programs in various areas of biostatistics. The division is recognized worldwide for its research in survival analysis. Other areas of investigation include statistical genetics and bioinformatics, Bayesian statistics, big data methods, design and analysis of clinical trials, and multiple comparisons. The division faculty had 23 methodological papers appear as an online publication in 2024.



BIOSTATISTICS NEWS

On July 1, 2024, the Division of Biostatistics moved from the Institute for Health and Equity (IHE) to the new Data Science Institute, led by its inaugural director Dr. William Hogan. We have enjoyed our long history of being part of the IHE and its preceding forms (Institute for Health and Society, Department of Population Health, Health Policy Institute), and are grateful to the leaders and membership of those groups for their support of the Division of Biostatistics over the years. We look forward now to helping to grow and support data science on campus as part of the new Data Science Institute.

Dr. Kwang Woo Ahn was appointed Chief Statistical Director of the Center for International Blood and Marrow Transplant Research in September 2024. He takes over from Dr. Mei-jie Zhang, who served in this leadership role for the past 9 years and retired from the Medical College of Wisconsin in February 2025. Dr. Zhang had a distinguished career of over 30 years working at MCW and with the CIBMTR, publishing ~300 peer reviewed manuscripts including ~50 in the statistical literature. He is internationally recognized for his expertise in survival analysis, competing risks, and multi-state models. He mentored numerous students, faculty, and staff at MCW with a kind heart and friendly personality. We thank him for his many contributions to the Division of Biostatistics and the CIBMTR and wish him the best in his retirement.

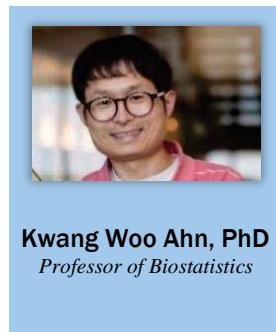
Drs. Wang and Lin received outstanding Graduate School Educator awards in 2024. Yu Wang was selected as a winner of the 2024 Student Paper Award from the American Statistical Associations for his paper on Rforce: Random Forest for Composite Endpoints. Peter Zhang was selected as a winner for the Society for Clinical Trials Thomas C. Chalmers Student Scholarship, for his presentation on Covariate adjusted group sequential comparisons of survival probabilities.

Dr. Logan was one of four co-PIs (with Dr. Mary Horowitz from MCW as contact PI) on a major grant to MCW which was recently re-awarded in 2024: the Data Coordinating Center (DCC) grant for the Blood and Marrow Transplant Clinical Trials Network (BMTCTN). Dr. Martens and Dr. Brazauskas also are co-investigators in the BMTCTN DCC and contributed to the successful grant submission. Several other faculty members continued ongoing methodologic research funded projects, including Dr. Auer (two NIH R01s), Drs. Logan, Laud, and Sparapani (National Marrow Donor Program and Office of Naval Research), Drs. Logan and Martens (R01), Dr. Szabo (R01), and Dr. Jin (R01, U54).

Several of our division faculty members were involved in notable high impact publication.

- Dr. Auer in Epigenomics
- Dr. Banerjee in Clinical Spine Surgery
- Dr. Tarima in Statistics in Biopharmaceutical Research (x2)
- Dr. Chen in Journal of Scientific Computing
- Dr. Auer/Chen in Journal of Hematology and Oncology
- Dr. Ahn/Kim in Biometrics
- Dr. Ahn/Lin in Bioengineering
- Dr. Kim/Martens/Ahn in Biometrical Journal
- Dr. Martens/Logan in Clinical Trials (x2)
- Dr. Auer (x3) and Dr. Jin in Nature Communications
- Dr. Tarima in Statistical Papers
- Dr. Banerjee in IEEE International Conference on Big Data
- Dr. Wang/Lin in Statistical Methods in Medical Research
- Dr. Yang in Journal of Quality Technology
- Dr. Yu in Scientific Reports
- Dr. Yu in PLOS One
- Dr. Yu in Journal of Data Science
- Dr. Yu in Statistics in Biosciences
- Dr. Laud and Dr. Logan (x2) in Journal of Clinical Oncology
- Dr. Auer in Blood
- Dr. Fang/Choppavarapu/Jin in Genome Medicine
- Dr. Auer in Nature Genetics
- Dr. Banerjee and Dr. Lin in Science Advances
- Dr. Szabo in Journal of Clinical Investigation
- Dr. Lin/Auer in Hypertension

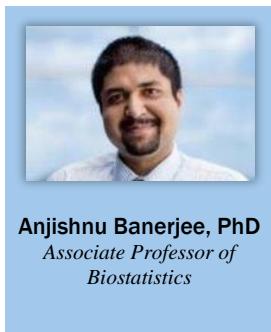
BIOSTATISTICS FACULTY



Kwang Woo Ahn, PhD
Professor of Biostatistics



Paul Auer, PhD
Core Director of Cancer Center & Professor



Anjishnu Banerjee, PhD
Associate Professor of Biostatistics



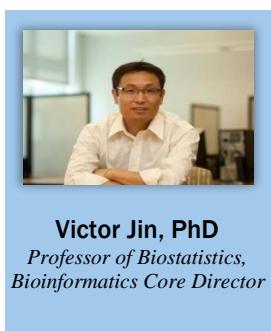
Ruta Brazaukas, PhD
Associate Professor of Biostatistics



Zhongyuan Chen, PhD
Assistant Professor of Biostatistics



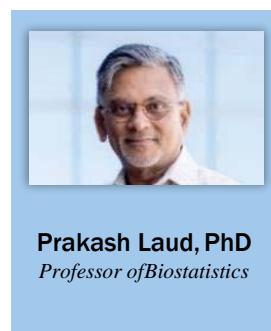
Yan Gao, PhD
Assistant Professor of Biostatistics



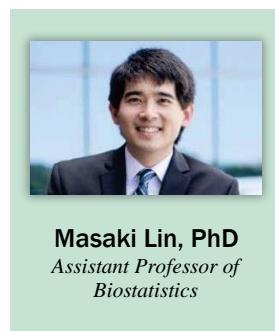
Victor Jin, PhD
Professor of Biostatistics, Bioinformatics Core Director



Soyoung Kim, PhD
Associate Professor of Biostatistics



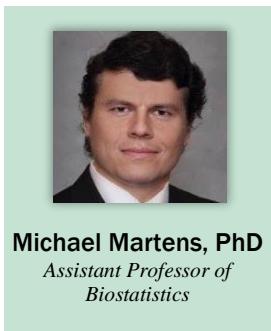
Prakash Laud, PhD
Professor of Biostatistics



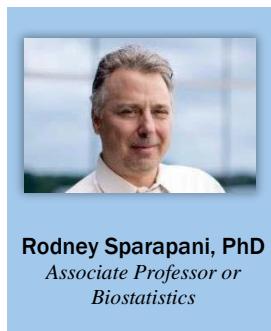
Masaki Lin, PhD
Assistant Professor of Biostatistics



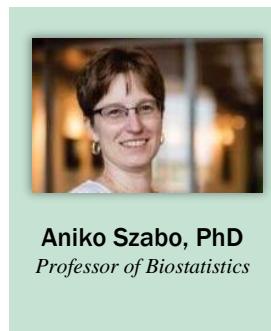
Brent Logan, PhD
Director & Professor of Biostatistics



Michael Martens, PhD
Assistant Professor of Biostatistics



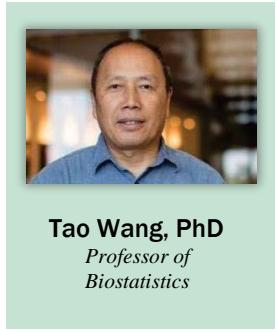
Rodney Sparapani, PhD
Associate Professor of Biostatistics



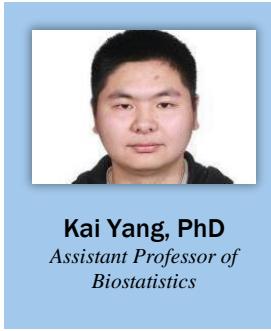
Aniko Szabo, PhD
Professor of Biostatistics



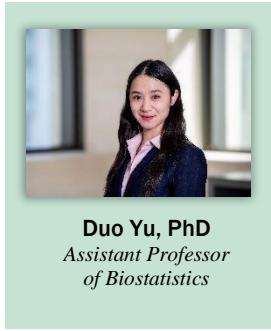
Sergey Tarima, PhD
Associate Professor of Biostatistics



Tao Wang, PhD
Professor of Biostatistics



Kai Yang, PhD
Assistant Professor of Biostatistics

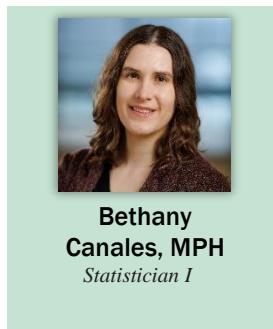


Duo Yu, PhD
Assistant Professor of Biostatistics



Mei-Jie Zhang, PhD
Professor of Biostatistics

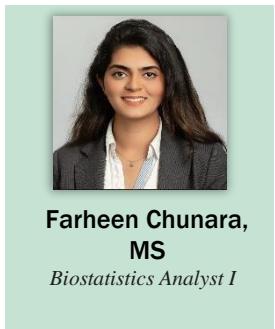
BIOSTATISTICS RESEARCH AND STATISTICAL SUPPORT STAFF



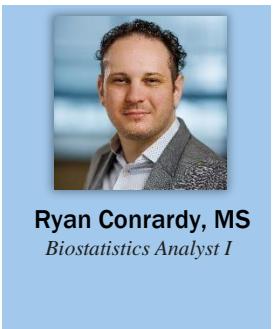
**Bethany
Canales, MPH**
Statistician I



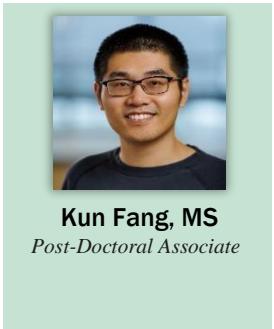
**Lavanya
Choppvarapu, PhD**
Research Scientist I



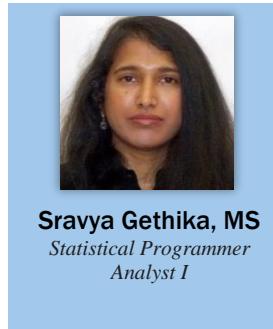
**Farheen Chunara,
MS**
Biostatistics Analyst I



Ryan Conrardy, MS
Biostatistics Analyst I



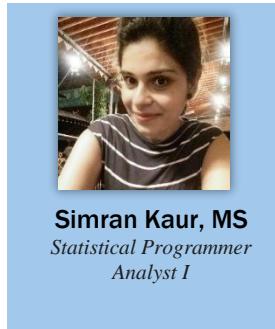
Kun Fang, MS
Post-Doctoral Associate



Sravya Gethika, MS
*Statistical Programmer
Analyst I*



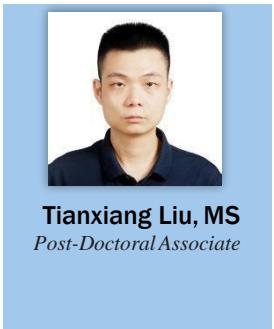
Manzur Farazi, PhD
*Statistical Research
Scientist II*



Simran Kaur, MS
*Statistical Programmer
Analyst I*



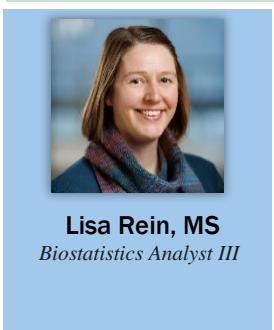
Joy Liu, MS
Biostatistics Analyst II



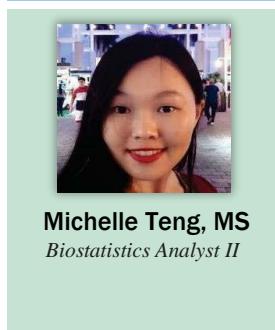
Tianxiang Liu, MS
Post-Doctoral Associate



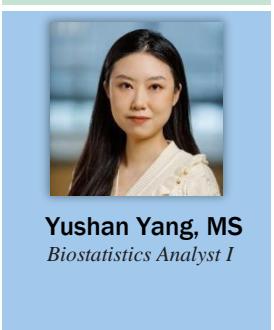
Xiolong Ma, MS
*Bioinformatics
Analyst I*



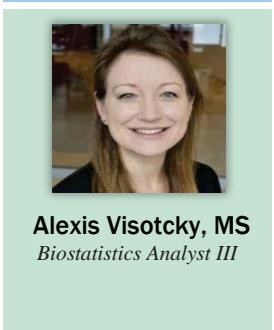
Lisa Rein, MS
Biostatistics Analyst III



Michelle Teng, MS
Biostatistics Analyst II



Yushan Yang, MS
Biostatistics Analyst I



Alexis Visotcky, MS
Biostatistics Analyst III

BIOSTATISTICS ADMINISTRATIVE SUPPORT



Kellie Bialzik, MBA
Business Manager, Sr.



Jennifer Ward
*Research Program
Coordinator II*



McKenna Busse
Financial Assistant II



Gabrial Williams
*Administrative
Assistant*

METHODOLOGIC RESEARCH

The division faculty have active research programs in various areas of biostatistics. The division is recognized worldwide for its research in survival analysis. Other areas of investigation include statistical genetics, Bayesian statistics, big data methods, design and analysis of clinical trials, and multiple comparisons. The division faculty had 23 methodological papers that appeared in statistical literature with an online publication date in 2024. (See list below). In addition to publications, the Division of Biostatistics also presented 6 methodological presentations/abstracts (See Appendix 1).

- Alsup A, Nissen E, Salas LA, Molinaro AM, Reiner A, Liu S, Madsen TE, Liu L, Auer PL, et al. An assessment of compositional methods for the analysis of DNA methylation-based deconvolution estimates. *Epigenomics*;16(15-16):1067-1080. PMID: 39093129. 08/02/2024.
- Banerjee A, Yang Y, Wang MC, Vedantam A. Recovery Trajectories of Patient-reported Outcomes After Surgery for Degenerative Cervical Myelopathy: A Bayesian Latent Class Modeling Approach. *Clinical spine surgery*. PMID: 39037072. 07/22/2024
- Calderazzo S, Tarima S, Reid C, Flournoy N, Friede T, Geller N, et al. Coping with Information Loss and the Use of Auxiliary Sources of Data: A Report from the NISS Ingram Olkin Forum Series on Unplanned Clinical Trial Disruptions. *Statistics in Biopharmaceutical Research*;16(2):141-157. 01/01/2024
- Chen Z., Sun J., and Xia J. A robust randomized indicator method for accurate symmetric eigenvalue solution. *Journal of Scientific Computing*;100:48. 06/28/2024.
- Dong J, Arsang-Jang S, Zhang T, Chen Z, Bolon YT, Spellman S, Urrutia R, Auer P, Saber W. Prognostic impact of donor mitochondrial genomic variants in myelodysplastic neoplasms after stem-cell transplantation. *Journal of hematology & oncology*;17(1):104. PMID: 39497145. 11/05/2024.
- Fang X, Ahn KW, Cai J, Kim S. Efficient estimation for left-truncated competing risks regression for case-cohort studies. *Biometrics*;80(1). PMID: 38281769. 01/29/2024.
- Hu H, Kothari AN, Banerjee A. Personalized Federated Learning for Gastric Cancer: Adaptive Inference from Large Heterogeneous Piecewise Electronic Health Record Based Biomedical Data Proceedings - 2024 IEEE International Conference on Big Data, Big Data:4554-4563. 01/01/2024.
- Kemmo Tsafack U, Ahn KW, Kwitek AE, Lin CW. Meta-Analytic Gene-Clustering Algorithm for Integrating Multi-Omics and Multi-Study Data. *Bioengineering (Basel, Switzerland)*;11(6). PMID: 38927823. 06.24.2024.
- Kim S, Martens MJ, Ahn KW. Test Statistics and Statistical Inference for Data With Informative Cluster Sizes. *Biometrical journal. Biometrische Zeitschrift*;67(1):e70021. PMID: 39686682. 12/17/2024.
- Kunz CU, Tarima S, Rosner GL, Emsley R, Bauer M, Jennison C, Rosenberger JL, Stallard N, Zohar S, Flournoy N. Bayesian and Frequentist Approaches to Rescuing Disrupted Trials: A Report from the NISS Ingram Olkin Forum Series on Unplanned Clinical Trial Disruptions. *Statistics in Biopharmaceutical Research*; 16(4):383-402. 01/01/2024.
- Martens MJ, Lian Q, Geller NL, Leifer ES, Logan BR. Sequential monitoring of time-to-event safety endpoints in clinical trials. *Clinical Trials*; online 12/29/2024.
- Martens MJ, Logan BR. Statistical rules for safety monitoring in clinical trials. *Clinical Trials*: 152-161. PMID: 37877375. 04/21/2024.
- Sun Q, Rowland BT, Chen J, Mikhaylova AV, Avery C, Peters U, Lundin J, Matise T, Buyske S, Tao R, Mathias RA, Reiner AP, Auer PL, et al. Improving polygenic risk prediction in admixed populations by explicitly modeling ancestral-differential effects via GAUDI. *Nature communications*;15(1):1016. PMID: 38310129.
- Tarima S, Flournoy N. The cost of sequential adaptation and the lower bound for mean squared error. *Statistical Papers*. December 2024;65(9):5529-5553. 12/01/2024.
- Uschner D, Sverdlov O, Carter K, Chipman JJ, Kuznetsova O, Renteria J, Lane A, Barker C, Geller NL, Proschan M, Posch M, Tarima S, et al. Using Randomization Tests to Address Disruptions in Clinical Trials: A Report from the NISS Ingram Olkin Forum Series on Unplanned Clinical Trial Disruptions. *Statistics in Biopharmaceutical*

- Research;16(4):405-413. 01/01/2024.
- Uschner D, Sverdlov O, Carter K, Chipman J, Kuznetsova O, Renteria J, Lane A, Barker C, Geller N, Proschan M, Posch M, Tarima S, et al. Rejoinder. Statistics in Biopharmaceutical Research;16(4):425-427.online 10/23/2024.
- Wang T, Lin CW. Using a centered general linear model for detection of interactions among biomarkers. Statistical methods in medical research; 33(3):414-432. PMID: 38320800. 02/07/2024.
- Yang K, Qiu P. SpTe2M: An R package for nonparametric modeling and monitoring of spatiotemporal data. Journal of Quality Technology;56(2):140-156. 01/01/2024.
- Yu D, Kane MJ, Koay EJ, Wistuba II, Hobbs BP. Machine learning identifies prognostic subtypes of the tumor microenvironment of NSCLC. Scientific reports;14(1):15004. PMID: 38951567. 07/02/2024.
- Yu D, Miao H, Wu H. Neural Generalized Ordinary Differential Equations with Layer-Varying Parameters. Journal of Data Science. 2024;22(1):10-24. 12/04/2024.
- Zenkova Z, Zenkov G, Musoni W, Tarima S. Estimation of Working Capital Turnover Measures on Interval Data. Lecture Notes in Networks and Systems;1104 LNNS:157-166. 01/01/2024.
- Zhang C, Nigo M, Patel S, Yu D, Septimus E, Wu H. Use of Real-World EMR Data to Rapidly Evaluate Treatment Effects of Existing Drugs for Emerging Infectious Diseases: Remdesivir for COVID-19 Treatment as an Example. Statistics in Biosciences;16(3):604-633. 12/01/2024.
- Zhou Y, Li T, Choppavarapu L, Fang K, Lin S, Jin VX. Integration of scHi-C and scRNA-seq data defines distinct 3D-regulated and biological-context dependent cell subpopulations. Nature communications;15 (1): 8310. PMID: 39333113.09/28/2024.

COLLABORATIVE APPLIED RESEARCH

The Division of Biostatistics provides biostatistical support for collaborative applied research through three mechanisms:

- Co-investigators on grants
- Integration contract set up with Medical College departments, division, centers, institutes, or other research programs to provide upfront integrated biostatistical support to their members
- Hourly effort recharge mechanism of the Biostatistics Consulting Service

Faculty and analysts in the Division of Biostatistics co-authored 125 medical publications in 2024 (Appendix 2). During this past year, they also provided statistical support through major grant effort or integration contracts for the following research programs and units:

- The Center for International Blood & Marrow Transplant Research (CIBMTR)
 - Resource for Clinical Investigation in Blood and Marrow Transplantation (RCIBMT)
 - Blood and Marrow Transplant Clinical Trials Network (BMT CTN)
 - National Marrow Donor Program / Be the Match
- The Medical College of Wisconsin Cancer Center
- The Clinical and Translational Science Institute
- Department of Anesthesiology
- Department of Radiation Oncology ROCKET clinical trials program
- Department of Orthopedic Surgery
- Department of Physical Medicine and Rehabilitation
- Pediatric Emergency Medicine
- Department of Pediatrics (support for genomics researchers)
- Department of Surgery
- Division of Hematology / Oncology
- Froedtert Hospital Pharmacy

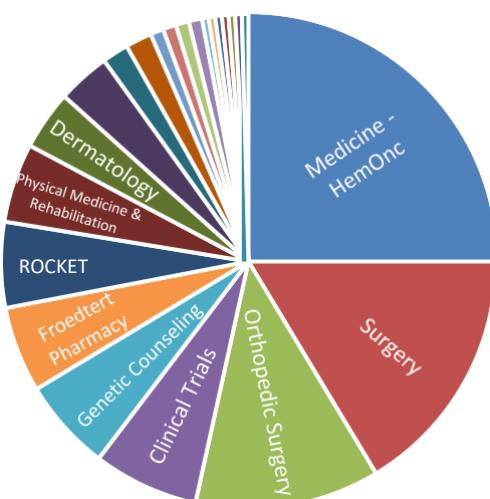
BIOSTATISTICS CONSULTING SERVICE

The Biostatistics Consulting Service (BCS) provides statistical support to investigators at the Medical College, its affiliates, and the public. The services provided include assistance with study design, data management, statistical analysis, interpretation of study results, and assistance in grant preparation. This pre-arranged assistance is available through the BCS on a recharge basis or through pre-arranged contacts with departments and centers as described previously.

The BCS collaborated on 232 projects in 2024, totaling 4698 hours of Biostatistics Faculty and Analyst collaboration time. Following is a breakdown of projects per MCW department or other affiliation. The BCS also provides drop-in consulting hours, similar to "faculty office hours" where staff biostatisticians designate weekly hours for investigators to receive free statistical consultations. To learn more, view the Biostatistics Consulting Service website.

Number of Biostatistics Consulting Service by Projects:

Department	Frequency	Department	Frequency	Department	Frequency	Department	Frequency
Anesthesiology	4	Genetic Counseling	14	Pathology	2	Psychiatry & Behavioral Medicine	1
Clinical Trials	16	Institute for Health & Equity	4	Pediatrics – Emergency Medicine	8	ROCKET	13
Dermatology	9	Marquette University	1	Pediatrics - Gastroenterology	2	Radiation Oncology	2
Emergency Medicine	1	Medicine	1	Physical Medicine & Rehabilitation	12	Surgery	38
External Client	1	Medicine - HemOnc	58	Plastic Surgery	1	Urologic Surgery	2
Froedtert Pharmacy	13	Orthopedic Surgery	28	Psychiatry	1		



2024 FUNDED GRANTS

Grant Title	PI	Biostatistics Member	TOTAL COSTS
NMDP - 16-NTCD Study	[^] Brazauskas, Ruta	Brazauskas, Ruta	\$15,719
Acute neurobehavioral predictors of risk trajectories following youth violence victimization	[^] Levas, Michael	Szabo, Aniko	\$849,998
BMT CTN Data and Coordinating Center	^{^*} Horowitz, Mary; Logan, Brent	Brazauskas, Ruta; Logan, Brent; Martens, Mike	\$51,860,000
A Data Resource for Blood and Marrow Transplants and Adoptive Cellular Therapy Research	[^] Shaw, Bronwen	Ahn, Auer, Brazauskas, Chen, Kim, Logan, Martens, Wang, Zhang	\$32,371,311
Assessing Photoreceptor Structure and Function in Normal and Diseased Retinae	^{^*} Carroll, Joseph	Tarima, Sergey	\$2,444,409
Rat Genome Database	[^] Kwitek, Anne	Ahn, Kwang Woo; Lin, Chien-Wei	\$7,731,741
Leveraging genetic mapping for personalized targeting of breast cancer microenvironment	[^] Joshi, Amit	Banerjee, Anjishnu	\$1,870,133
Mechanistic and therapeutic role of the CD137-CD137L axis in Type 1 Diabetes	[^] Chen, Yi-Guang	Lin, Chien-Wei	\$3,248,996
Randomized Study of very low versus low dose busulfan in transplant for severe combined	[^] Logan, Brent	Logan, Brent	\$121,362
A Phase I Clinical Trial Testing Feasibility of Hematopoietic Stem Cell Gene Therapy Using Platelet Factor VIII to Safely Improve Hemostasis for Severe Hemophilia A with Inhibitory Antibodies to FVIII	[^] Wilcox, David	Brazauskas, Ruta	\$7,991,821
Role of RNA activation in Tumor Progression and Metastasis	[^] Chaluvally-Raghavan, Pradeep	Banerjee, Anjishnu	\$1,704,781
MCW NCTN Lead Academic Participating Site	[^] Wong, Stuart	Logan, Brent	\$20,311,047

Effects of Head Impact Exposure During Contact Sport on Middle School and High School Athletes	[^] Wang, Yang	Banerjee, Anjishnu; Szabo, Aniko	\$2,963,667
A factorial randomized controlled trial of home-based self-sampling and patient educational material to increase high-resolution anoscopy attendance among individuals at increased risk for anal cancer	^{^*} Nyitray, Alan	Rein, Lisa	\$3,737,634
Primary Immune Deficiency Treatment Consortium	[^] Logan, Brent	Chunara, Farheen; Dammalapati, Sravya; Liu, Xuerong	\$1,716,111
Ischemic Conditioning and Improved Motor Function Post Stroke	[^] Durand, Matt	Tarima, Sergey	\$911,137
Deconstructing sleep disruption as a major risk factor for relapse in opioid use	[^] Everson, Carol	Szabo, Aniko	\$1,598,776
The Inflammatory Index as a Biomarker for Pain in Patients with Sickle Cell Disease	[^] Brandow, Amanda	Szabo, Aniko; Lin, Chien-Wei "Masaki"	\$1,265,359
Clinical and Translational Science Award	[^] Shaker, Reza	Ahn, Kwang Woo; Brazauskas, Ruta; Logan, Brent; Sparapani, Rodney; Szabo, Aniko, Tarima, Sergey	\$20,311,047
Machine learning accelerated on-line adaptive replanning	[^] Eric Paulson	Mei-Jie Zhang	\$2,589,287
Prostate Cancer Radio-Pathomics for Differentiating Clinically Significant Disease	[^] LaViolette, Peter	Banerjee, Anjishnu	\$3,138,929
Blockade of IL-23 for the Prevention of Graft Versus Host Disease	[^] William Drobyski	Szabo, Aniko	\$2,193,432
Reducing innate inflammation in new onset T1D with Lactobacillus plantarum	[^] Hessner, Martin	Lin, Chien-Wei	\$2,772,953
Environmental Sound Recognition Before and After Cochlear Implantation in Adults	[^] Harris, Michael	Tarima, Sergey	\$446,199
A self-organizing embryoid model of peri-implantation human development	[^] Taniguchi, Kenichiro	Lin, Chien-Wei	\$1,548,658
Molecular regulators of human amniogenesis	^{^*} Taniguchi, Kenichiro	Lin, Chien-Wei "Masaki"	\$2,826,863
Gastroschisis Outcomes of Delivery (GOOD) Study	[^] Szabo, Aniko; Wagner, Amy	Szabo, Aniko	\$4,230,838
Every Day Counts: A lifestyle program for women metastatic breast cancer	[^] Melinda Stolley	Banerjee, Anjishnu; Visotcky, Alexis; Bi Qing Teng (Michelle)	\$3,446,141
Dual Functionality of Ceramide in Human Microvascular Endothelial Function	[^] Freed, Julie	Tarima, Sergey	\$3,026,932

Pharmacological Jak2 inhibition to overcome androgen receptor aberrations in prostate cancer	^Nevalainen, Marja	Banerjee, Anjishnu	\$2,945,938
A longitudinal, nationally representative study of cognition-related effects of breast cancer and its treatment	^Nattinger, Ann	Laud, Purushottam	\$1,476,873
Delineating the mechanisms underlying heart valve endothelial repair	^Lincoln, Joy	Lin, Chien-Wei	\$1,719,595
Retinal Contributions to Vision Loss in Albinism	^Carroll, Joseph	Tarima, Sergey	\$2,233,406
Endothelial Rap1 in the control of heart function	^Zhang, David X.	Sparapani, Rodney; Yang, Kai	\$511,160
No-Show Prevention Practices in Dental Care Settings Serving Underserved Populations	^Szabo, Aniko	Szabo, Aniko; Teng, Bi Qing	\$291,340
Bridging Community-based Continence Promotion and Primary Care	^Neuner, Joan	Laud, Purushottam	\$1,018,565
Machine Learning to identify Biomarkers for Risk of Chronic Graft-Versus-Host Disease	^Logan, Brent	Logan, Brent; Martens, Mike	\$458,189
Neurovascular Uncoupling and Cognitive Impairments of Long COVID in Aging	^Wang, Yang	Banerjee, Anjishnu	\$1,704,781
Cerebrovascular reactivity in adults on hemodialysis and association with intradialytic cerebral hypoperfusion	^Dawn Wolfgram	Hyun, Hyun; Gao, Yan	\$234,000
Stand Up for Your Health: A Randomized Study	^Kulinski, Jacquelyn	Gao, Yan	\$2,824,501
The Role of Mortalin in Thyroid Cancer	^Park, Jong-in	Lin, Chein-Wei	\$2,096,576
Evaluating the Impact of Singing Interventions on Markers of Cardiovascular Health in Older Patients with Cardiovascular Disease	^Kulinski, Jacquelyn	Sparapani, Rodney; Visotcky, Lexi	\$991,980
Deglutitive and airway protective functions of proximal/ striated muscle esophagus in health and disease	^Shaker, Reza	Szabo, Aniko	\$1,872,713
Exploring Age Differences in Patient Reported Cognitive Function Trajectories among Hematopoietic Stem Cell Transplant and Chimeric Antigen Receptor T-cell patients and Linking Two Key	^Cusatis, Rachel	Brazauskas, Ruta	\$429,000

Measures			
The roles of Lyme spirochete adhesins in hematogenous dissemination	^Jenifer Coburn	Hyun, Noorie; Gao, Yan	\$3,524,778
The histone demethylase JMJD1C in human acute myeloid leukemia	^Tarima, Sergey	Tarima, Sergey	\$16,533
Polygenic risk scores and health disparities: the role of blood cells immune response and evolutionary adaptation	^Auer, Paul	Auer, Paul	\$492,621
Prognostic implications of mitochondrial inheritance in myelodysplastic syndromes after stem-cell transplantation	^Dong, Jing	Auer, Paul	\$783,000
Innovative approaches to elucidate the genetic etiology of age-related hearing impairment and tinnitus	^Auer, Paul	Farazi, Manzur Rahman	\$334,918
Understanding Breast Cancer Risk and Screening in Transgender Persons through a Pilot Breast Cancer Screening Program	^Cortina, Chandler	Brazauskas, Ruta	\$1,052,128
Defining GATA4's Molecular Function in Gastric Cell Biology	^Battle, Michelle	Tarima, Sergey	\$2,289,308
Next generation functional genomics of hematology traits	^Paul Auer	Paul Auer	\$145,162
Host-Pathogen Dynamics in Leptospirosis, Project 3: Invasion Dynamics	^Coburn, Jenifer	Gao, Yan	\$1,556,100
Spinal cord structure-function relationships in degenerative cervical myelopathy	^Vedantam, Aditya	Banerjee, Anjishnu	\$2,574,623
Early diagnosis of light chain amyloidosis	^D'Souza, Anita	Sparapani, Rodney; Chunara, Farheen	\$1,495,747
BMTCTN Protocol 1705 CSL Behring	^Martens, Michael	Martens, Michael	\$243,750
A Phase 3, Randomized, Open-Label, Multicenter Study, to Compare T-Guard to Ruxolitinib for the Treatment of Patients with Grade III or IV Steroid-Refractory Acute Graft-Versus-Host D	^Martens, Michael	Martens, Michael	\$74,743
Defining the mechanisms of surgical site infection after oral cancer surgery using peri-operative metagenomics	^*Zenga, Joseph	Lin, Chien-Wei	\$442,440
BAA - Mitigation of Multi-organ Delayed Effects of Acute Radiation Exposure (DEARE) with ACE-inhibitor Lisinopril	^Himburg, Heather	Szabo, Aniko	\$3,369,046
Control of GVHD by Probiotics with individual Commensal Bacteria	^Yu, Xue-Zhong	Lin, Chien-Wei; Jin, Victor	\$2,430,251
Determining the role of the SDF-1/CXCR4 pathway and its intersection with chronic stress to establish novel precision	^Zenga, Joseph	Banerjee, Anjishnu	\$403,090

approaches to head and neck cancer management			
Omics analysis of three-dimensional transcriptional regulation	^Jin, Victor	Jin, Victor; Fang, Kun; Choppavarapu, Lavanya	\$928,682
Structural Variation and Hematological Traits	^Auer, Paul	Ma	\$238,187
Blood Flow Regulation and Neuromuscular Function Post-Stroke	^Durand, Matt	Tarima, Sergey	\$3,656,070
Stem Cell Therapeutic Outcomes Database (SCTOD)	^Rizzo, Douglas J.	Ahn, Kim, Logan, Wang, Zhang	\$29,423,676
NMDP / Office of Naval Research	^Tao Wang	Tao Wang	\$746,373
17-CSIDE-NMDP	^Logan, Brent	Logan, Brent	\$15,000
17-CD33CAR- NMDP	^Brazauskas, Ruta	Brazauskas, Ruta	\$29,383
Robust estimators for missing covariate parameters for right-censored data	Kim, Soyoung	Ahn, Kwang Woo; Kim, Soyoung	\$200,000
Targeting oncogenomic function of N-Myc to inhibit neuroendocrine prostate cancer visceral metastasis	^Jin, Victor	Jin, Victor	\$135,000
Chemotherapy Dosing in Patients With Obesity: Are Oncologists Optimally Balancing Risks and Benefits to Avoid Overtreatment and Undertreatment?	^Neuner, Joan	Sparapani, Rodney	\$1,046,468
Chronic sleep deficiency as a cause of bone loss in aging	^*Everson, Carol	Szabo, Aniko	\$2,385,081
POINT-mTBI: Prospective Study of Point-of-Care Blood-Based Biomarkers in Acute Military, Civilian, and Sport-Related Mild Traumatic Brain Injury (mTBI)	^McCrea, Michael	Tarima, Sergey; Rein, Lisa	\$6,403,731
Impact of the COVID-19 Pandemic on Help Seeking of American Indian and Black Women Experiencing Intimate Partner Violence	^Williams, Joni	Yu, Duo	\$277,690
Targeting MED31-driven transcription recycling in lethal prostate cancer	^Jin, Victor	Jin, Victor; Fang, Kun	\$440,106
MCW CIC Center Grant: Working towards health equity in injury prevention	^*deRoon Cassini, Terri	Tarima, Sergey	\$4,636,017
Addressing key social-structural risk factors for racial disparities in maternal morbidity in Southeastern Wisconsin	^Palatnik, Anna	Tarima, Sergey	\$10,231,511
Therapeutic Targeting of Minimal Residual Disease to Improve Outcomes in Multiple Myeloma	Mohan, Meera	Szabo, Aniko	\$537,380

OOR PPG: Center for Aphasia Research and Recovery	Binder, Jeffrey	Szabo, Aniko	\$250,000
OOR PPG: Mechanistic studies of chemokine biology in exocrine pancreas disease	Dwinell, Michael	Auer, Paul	\$250,000
CardioWatch: an omics-based prediction assay for cardiac late effects of acute radiation exposure	[^] Himburg, Heather	Szabo, Aniko; Kim Soyoung	\$289,998
Multi-cohort validation of machine learning radiogenomic models (ML-RGx) to predict late toxicity in prostate cancer	^{^*} Kerns, Sarah	Auer, Paul	\$2,981,502
PTPN22 controls the interrelationship of IL-21+ and FOXP3+ CD4 T cells in T1D	^{^*} Chen, Yi-Guang	Lin, Chien-Wei	\$418,000
Human Coronary Artery Plaque Transcriptomes and Cardiovascular Risk Assessment	^{^*} Widlansky, Michael	Wang , Tao	\$2,678,152
Mechanism of Chemotherapy Induced Microvascular Dysfunction in Cancer Survivors	^{^*} Beyer, Andreas	Sparapani, Rodney	\$3,409,842
PRESERVE I - NMDP	[^] Brazauskas, Ruta	Brazauskas, Ruta	\$24,999
Improving in-hospital and post-discharge patient education for mild traumatic brain injury (HSRA)	^{^*} Nelson, Lindsay	Tarima, Sergey	\$2,289,304
RIGERR: Resources for Investigating Genetic and Epigenetic Regulation of Renal Disease	[^] Geurts, Aron	Auer, Paul	\$465,411
Puerto Rican Obesity Intervention for Men	[^] Sanchez-Johnsen, Lisa	Auer, Paul; Conrardy, Ryan	\$946,314
Neuroinflammation and motor neuron loss in SMA	[^] Ebert, Allison	Lin, Chien-Wei "Masaki"	\$565,054
Molecular Markers for Tumors Associated with Extrachromosomal HPV	[^] Ojesina, Akinyemi	Auer, Paul	\$2,893,516
FY24 C-MACC Funding	Burke, Michael	Martens, Mike; Szabo, Aniko	\$1,004,203
Sex-differences in ACE2 Regulate Normal Tissue Toxicity During Gastrointestinal Acute Radiation Syndrome Himburg, Heather	^{^*} Himburg, Heather	Szabo, Aniko	\$1,607,098
Assessing functional improvements with use of the SPIO Core-Max Expedition TLSO	[^] Stibb, Stacy	Tarima, Sergey	\$0
GATA2-TGF 1-TAL1 pathway as a critical mediator of NK Cell development	^{^*} Malarkannan, Subramaniam	Tarima, Sergey	\$3,689,379

Microvascular complications in sickle cell disease: assessment and treatment implications	^*Argote, Juliana Alvarez	Tarima, Sergey	\$50,000
Primary Immune Deficiency Treatment Consortium (PIDTC): A resource to drive scientific and clinical advances related to the treatment of inborn errors of immunity	^*Dvorak, Chris	Brazauskas, Ruta; Sravya Gethika Dammalapati; Logan, Brent; Liu, Xuerong	\$1,500,000
CSIDE Trial-UO1 Submission	^*Broglie, Larisa	Logan, Brent	\$244,997
Role of Liver Kinase B1 in the decreased angiogenesis in bronchopulmonary dysplasia	^*Konduri, Girija Ganesh	Lin, Chien-Wei	\$2,581,800
Phase II trial of interferon-gamma and donor lymphocyte infusion for relapsed myeloid malignancies after allogeneic stem cell transplantation	^*Page, Kristin	Kim, Soyoung	\$243,363
Genetic and Epigenetic Mechanisms of BP Regulation - Project 1	Geurts, Aron	Auer, Paul	\$138,700
Automating myocardial infarction diagnosis by ECGs with VERITAS software and hybrid learning	*Sparapani, Rodney	Sparapani, Rodney	\$50,000
Identification of Targeted Treatments for Adult-Type Granulosa Cell Tumors of the Ovary (AGCT) through I-depth multi-omics analysis	*Hopp, Elizabeth	Banerjee, Anjishnu	\$458,577
Single-cell identification of neo-antigen specific T cells in oral cancer	^Zenga, Joseph	Jin, Victor	\$30,000
NMDP: BMT CTN Mesoblast Protocol Development Project	^Brazauskas, Ruta	Brazauskas, Ruta	\$28,438
Strategic Investments to Bridge the Gaps in Prevention and Care to Reduce Inequities in Cancer	*Young, Staci	Banerjee, Anjishnu	\$4,819,477
IPW-5371 Fumarate Efficacy in Female WAG/RijCmcR Rats	^*Himburg, Heather	Szabo, Aniko; Kim Soyoung	\$590,455
FY25 C-MACC Funding	^*Burke, Michael	Martens, Michael	\$901,755
Using computer vision to screen for Degenerative Cervical Myelopathy	^*Raju, Viprav	Banerjee, Anjishnu	\$50,000
Exploiting Synthetic Lethality: Inducing 'BRCAness' in Non-BRCA2 Deficient Cancers to Enhance PARP Inhibitor Responses	^*De Sarkar, Navonil	Banerjee, Anjishnu	\$40,000

External Funds	\$320,394,488
New Grants	\$96,936,145
2024 Total of All Grants	\$328,102,825

* Denotes New Grants | ^ Denotes External Funding

APPENDIX 1: METHODOLOGIC PRESENTATIONS

Chen, Zhongyuan. Data-guided statistical methods for treatment recommendation conference, Joint Statistical Meetings, Portland. 08/05/2024. (in-person invited talk).

Duo Yu, Meilin Huang, Michael J. Kane, Brian P. Hobbs. A Patient Similarity-embedded Bayesian Approach to Prognostic Biomarker Inference with Application to Thoracic Cancer Immunity, University of Texas Health Science Center at Houston, School of Public Health Reuel A. Stallones Building. 11/15/2024 – 11/16/2024. (in-person invited talk).

Kai Yang, Reduced-Rank Cox Models for High-Dimensional Multi-Response Survival Data with Hidden Confounders, INFORMS Annual Meeting, Seattle, Washington, 10/20/2024 - 10/23/2024. (in-person invited talk).

Monika Tutaj, Anne Kwitek, Cross-species Epigenomic Maps of Intergenic Loci for Hypertension and Blood Pressure, Chicago, Hypertension Scientific Session 2024, 09/06/2024. (in-person invited talk).

Rodney Sparapani, Antonio Linero, Robert McCulloch. Ensemble learning with Bayesian Additive Regression Trees. International Society for Bayesian Analysis World Meeting. Venice, Italy. 07/01/2024 – 07/07/2024. (Sparapani presented in- person).

Yu Wang, Kwang Woo Ahn, Yi-Guang Chen. FastQDesign: A realistic FASTQ-based framework for ScRNA-seq study design issues. National Yang Ming Chiao Tung University, Taiwan. 12/20/2024. (in-person invited talk).

APPENDIX 2: COLLABORATIVE PAPERS & PUBLICATIONS

- Ahmed, G., Alsouqi, A., Szabo, A., Samples, L., Shadman, M., Awan, F. T., Rojek, A. E., Riedell, P. A., Iqbal, M., et al. CAR T-cell therapy in mantle cell lymphoma with secondary CNS involvement: A multicenter experience. *Blood Advances*, 8(13), 3528-3531. PMID: 38701405. 05/03/2024.
- Akhtar, O. S., Szabo, A., Bhatlapenumarthy, V., Forsberg, M., Balev, M., Patwari, A., Cheruvalath, H., Bhutani, D., et al. Immune prognostic score predicts the risk of infection and survival outcomes in patients with relapsed multiple myeloma treated with bispecific antibodies. *British Journal of Haematology*, 205(5), 1830-1834. PMID: 39192546. 08/28/2024.
- Akhtar, O. S., Arshad, S., Lian, Q., Ahn, K. W., D'Souza, A., Dhakal, B., Mohan, M., Pasquini, M., Longo, W., Shah, N. N., et al. Comparison of thiotepa-based conditioning regimens for older adults with primary diffuse large B-cell lymphoma of the central nervous system undergoing autologous hematopoietic cell transplantation. *Transplantation and Cellular Therapy*, 30(12), 1191.e1-1191.e8. PMID: 39303985. 09/21/2024.
- Akinola I, Flynn KE, Szabo A, Finkel M, D'Souza A. Patient-reported satisfaction with telemedicine in light chain (AL) amyloidosis care. *Journal of Clinical and Experimental Investigation (JCEI)*. 2024 Sep;31(3):235-237. PMID: 38764391. 05/20/2024.
- Al Tannir, A. H., Pokrzywa, C. J., Sparapani, R., Maring, M., Saltzman, C., Tignanelli, C. J., Duthie, E., Haines, K., et al. Can we actually predict long-term patient satisfaction after traumatic brain injury? *The Journal of Surgical Research*, 301, 269-279. PMID: 38986192. 07/11/2024.
- Alsouqi, A., Ahmed, G., Wang, J., Cassanello, G., Szabo, A., Rojek, A. E., Riedell, P. A., Awan, F., Samples, L., et al. (2024). Chimeric antigen receptor T-cell therapy in secondary central nervous system lymphoma: A multicenter analysis. *American Journal of Hematology*, 99(8), 1624-1627. PMID: 38769663. 05/21/2024.
- Alvarez-Argote, S., Paddock, S. J., Flinn, M. A., Moreno, C. W., Knas, M. C., Almeida, V. A., et al. (2024). IL-13 promotes functional recovery after myocardial infarction via direct signaling to macrophages. *JCI Insight*, 9(1), 23. PMID: 38051583. 01/23/2024.
- Amidon RF, Livingston K, Kleefisch CJ, Martens M, Straza M, Puckett L, Schultz CJ, Mueller WM, Connelly JM, Noid G, et al. Cystic Brain Metastasis Outcomes After Gamma Knife Radiation Therapy. *Advances in Radiation Oncology*, 2024 Jan;9(1):101304. PMID 38260234. 01/23/2024.
- Auer PL, Farazi M, Zhang T, Dong J, Bolon YT, Spellman SR, Saber W. Donor germ-line variants associate with outcomes of allogeneic hematopoietic stem cell transplantation in patients with myelodysplastic syndromes. *American Journal of Hematology*, 2024 Apr;99(4):770-773. PMID 38339773. 02/10/2024.
- Bagherimohamadipour M, Hammad M, Visotcky A, Sparapani R, Kulinski J. Effects of Singing on Vascular Health in Older Adults with Coronary Artery Disease: A Randomized Trial. *medRxiv : the preprint server for health sciences*, PMID 39108506. 08/07/2024.
- Ballen K, Wang T, He N, Knight JM, Hong S, Frangoul H, Verdonck LF, Steinberg A, Diaz MA, et al. Impact of Race and Ethnicity on Outcomes After Umbilical Cord Blood Transplantation. *Transplantation and Cellular Therapy*; 30(10):1027.e1-1027.e14. PMID 39033978. 07/22/2024.
- Baxter-Lowe LA, Wang T, Kuxhausen M, Spellman SR, Maiers M, Lee S, Saultz J, Arrieta-Bolaños E, et al. Novel Scoring System for Ranking Hematopoietic Stem Cell Transplantation. *Clinical Transplantation*; 38(11):e15478. PMID 39512128. 11/13/2024.
- Bickell NA, Nattinger AB, McGinley EL, Schymura MJ, Laud PW, Pezzin LE. Effect on Travel Distance of a Statewide Regionalization Policy for Initial Breast Cancer Surgery. *Journal of Clinical Oncology: Official Journal of the American Society of Clinical Oncology*;43(1):57-64. PMID 39348624. 09/30/2024.
- Brown SA, Sparapani R, Osinski K, Zhang J, Blessing J, Cheng F, Hamid A, MohamadiPour MB, Lal JC, et al. Team principles for successful interdisciplinary research teams. *American Heart Journal Plus: Cardiology Research and Practice*;32:100306. PMID 38510201. 03/21/2024.
- Carver TW, Berndtson AE, McNickle AG, Boyle KA, Haan JM, Campion EM, Biffl WL, et al. Thoracic irrigation for prevention of secondary intervention after thoracostomy tube drainage for hemothorax: A Western

- Trauma Association multicenter study. *The Journal of Trauma and Acute Care Surgery*;97(5):724-730. PMID 38764139. 05/20/2024.
- Chakraborty R, Cheruvalath H, Patwari A, Szabo A, Schinke C, Dhakal B, Lentzsch S, et al. Sustained remission following finite duration bispecific antibody therapy in patients with relapsed/refractory myeloma. *Blood Cancer Journal*;14(1):137. PMID 39134535. 08/13/2024.
- Chen W, Song YS, Lee HS, Lin CW, Lee J, Kang YE, Kim SK, Kim SY, Park YJ, Park JI. Estrogen-related receptor alpha promotes thyroid tumor cell survival via a tumor subtype-specific regulation of target gene networks. *Oncogene*; 43(31):2431-2446. PMID 38937602. 06/28/2024.
- Cheng G, Smith MA, Phelan R, Brazauskas R, Strom J, Ahn KW, Hamilton B, Peterson A, Savani B, et al. Epidemiology of Diffuse Alveolar Hemorrhage in Pediatric Allogeneic Hematopoietic Cell Transplantation Recipients. *Transplantation and Cellular Therapy*;30(10):1017.e1-1017.e12. PMID 39089527. 08/02/2024.
- Chhabra S, Jerkins JH, Monahan K, Szabo A, Shah NN, Abedin S, Runaas L, Fenske TS, Pasquini MC, et al. Severity and organ distribution of chronic graft-versus-host disease with posttransplant cyclophosphamide-based versus methotrexate/calcineurin inhibitor-based allogeneic hematopoietic cell transplantation. *Bone Marrow Transplantation*;59(3):373-379. PMID 38177221. 01/05/2024.
- Chimge NO, Chen MH, Nguyen C, Zhao Y, Wu X, Gonzalez PG, et al. A Deeply Quiescent Subset of CML LSC Depend on FAO Yet Avoid deleterious ROS by Suppressing Mitochondrial Complex I. *Current Molecular Pharmacology*, 17(1):e060923220758. PMID 37691195. 01/01/2024.
- Choppavarapu, L., Fang, K., Liu, T., & Jin, V. X. Hi-C profiling in tissues reveals 3D chromatin-regulated breast tumor heterogeneity and tumor-specific looping-mediated biological pathways. *bioRxiv: The Preprint Server for Biology*. PMID: 38559097. 04/01/2024.
- Cortina, C. S., Purdy, A., Brazauskas, R., Stachowiak, S. M., Fodroczy, J., Klement, K., Sasor, S., Krucoff, K., et al. ASO Visual Abstract: The impact of a breast cancer risk assessment on the decision for gender-affirming chest masculinization surgery in transgender and gender-diverse individuals—a pilot single-arm educational intervention trial. *Annals of Surgical Oncology**. <https://doi.org/10.1245/s10434-024-15905-6>. PMID: 39214939. 06/28/2024.
- Daskalska, L., Tarima, S., Meurer, J., & Young, S. (2024, February 13). Child anxiety and depression during the COVID-19 pandemic and unmet mental health care needs. *Child Psychiatry and Human Development*. PMID: 38351248. 02/14/2024.
- de Vries, P. S., Reventun, P., Brown, M. R., Heath, A. S., Huffman, J. E., Le, N. Q., Bebo, A., Brody, J. A., et al. A genetic association study of circulating coagulation factor VIII and von Willebrand factor levels. *Blood*, 143(18), 1845-1855. PMID: 38320121. 02/06/2024.
- Desai, P., Zhou, Y., Grenet, J., Handelman, S. K., Crispino, C. M., Tarbay, L. N., Whitsel, E. A., Roboz, G., Barac, A., et al. Association of clonal hematopoiesis and mosaic chromosomal alterations with solid malignancy incidence and mortality. *Cancer*, 130(22), 3879-3887. PMID: 39012906. 07/16/2024.
- D'Souza, A., Singh, A., Szabo, A., Lian, Q., Pezzin, L., & Sparapani, R. Timing and co-occurrence of symptoms prior to a diagnosis of light chain (AL) amyloidosis. Research Square. PMID: 38260686. 05/26/2024.
- D'Souza, A., Szabo, A., Akinola, I., Finkel, M., & Flynn, K. E. Development and initial validation of the AL-PROfile patient-reported outcome measure in light chain (AL) amyloidosis. *European Journal of Haematology*, 112(6), 900-909. PMID: 38350661. 02/14/2024.
- Epperla, N., Hashmi, H., Ahn, K. W., Allbee-Johnson, M., Chen, A. I., Wirk, B., Kanakry, J. A., Lekakis, L., et al. Outcomes of patients with secondary central nervous system lymphoma treated with chimeric antigen receptor T-cell therapy: A CIBMTR analysis. *British Journal of Haematology*, 205(3), 1202-1207. PMID: 38797526. 05/27/2024.
- Everson, C. A., Szabo, A., Plyer, C., Hammeke, T. A., Stemper, B. D., & Budde, M. D. Subclinical brain manifestations of repeated mild traumatic brain injury are changed by chronic exposure to sleep loss, caffeine, and sleep aids. *Experimental Neurology*, 381, 114928. PMID: 39168169. 08/22/2024.
- Fang, K., Ohihoin, A. G., Liu, T., Choppavarapu, L., Nosirov, B., Wang, Q., Yu, X. Z., Kamaraju, S., Leone, G., & Jin, V. X. Integrated single-cell analysis reveals distinct epigenetic-regulated cancer cell states and a heterogeneity-guided core signature in tamoxifen-resistant breast cancer. *Genome Medicine*, 16(1), 134. PMID: 39558215.

11/19/2024.

- Farhadfar, N., Rashid, N., Chen, K., DeVos, J., Wang, T., Ballen, K., Beitinjaneh, A., Bhatt, V. R., Hamilton, B. K., et al. Racial, ethnic, and socioeconomic diversity and outcomes of patients with graft-versus-host disease: a CIBMTR analysis. *Blood Advances*, 8(18), 4963-4976. PMID: 38776400. 05/22/2024.
- Feih, J., Weierstahl, K., Juul, J., Brazauskas, R., Held-Godgluck, B., & Rinka, J. Retrospective evaluation of inpatient warfarin management practices in patients immediately following left ventricular assist device implantation. *The Journal of Pharmacy Technology*, 40(5), 215-222. PMID: 39391327. 10/11/2024.
- Fernando, D. G., Sparapani, R., & Mogal, H. Role of cytoreduction and hyperthermic intraperitoneal chemotherapy (CRS/HIPEC) in the treatment of peritoneal carcinomatosis from small bowel adenocarcinoma—a systematic review and meta-analysis. *Journal of Surgical Oncology*. PMID: 39552156. 11/18/2024
- Follett, H. M., Warr, E., Grieshop, J., Yu, C. T., Gaffney, M., Bowie, O. R., Lee, J. W., Tarima, S., et al. Chemically induced cone degeneration in the 13-lined ground squirrel. *Visual Neuroscience*, 41, E002. PMID: 38725382. 05/10/2024.
- Glaeser, B., Panariello, V., Banerjee, A., & Olsen, C. M. Environmental enrichment during abstinence reduces oxycodone seeking and c-Fos expression in a subpopulation of medial prefrontal cortex neurons. *Drug and Alcohol Dependence*, 255, 111077. PMID: 38228055. 01/16/2024.
- Goeckner, B. D., Brett, B. L., Mayer, A. R., Espa  a, L. Y., Banerjee, A., Muftuler, L. T., & Meier, T. B. Associations of prior concussion severity with brain microstructure using mean apparent propagator magnetic resonance imaging. *Human Brain Mapping*, 45(1), e26556. PMID: 38158641. 01/02/2024.
- Grunebaum, E., Arnold, D. E., Logan, B., Parikh, S., Marsh, R. A., Griffith, L. M., Mallhi, K., Chellapandian, D., et al. Allogeneic hematopoietic cell transplantation is effective for p47phox chronic granulomatous disease: A Primary Immune Deficiency Treatment Consortium study. *The Journal of Allergy and Clinical Immunology*, 153(5), 1423-1431.e2. PMID: 38290608. 01/31/2024.
- Gundamraj, S., Devaraj, K. B., Harinathan, B., Banerjee, A., Yoganandan, N., & Vedantam, A. Effect of sagittal alignment on spinal cord biomechanics in the stenotic cervical spine during neck flexion and extension. *Biomechanics and Modeling in Mechanobiology*, 23(5), 1757-1764. PMID: 39003653. 07/14/2024.
- Guru Murthy, G. S., Zhang, T., Bolon, Y. T., Spellman, S., Dong, J., Auer, P., & Saber, W. Proteomics to predict relapse in patients with myelodysplastic neoplasms undergoing allogeneic hematopoietic cell transplantation. *Biomarker Research*, 12(1), 10. PMID: 38273355. 01/16/2024.
- Ha, E. T., Haessler, J., Taylor, K. D., Tuftin, B., Briggs, M., Parikh, M. A., Peterson, S. J., Gerszten, R. E., Wilson, J. G., et al. The relationship of Duffy gene polymorphism with high-sensitivity C-reactive protein, mortality, and cardiovascular outcomes in Black individuals. *Genes*, 15(11). PMID: 39596582. 11/27/2024.
- Hahn, T., Herr, M. M., Brazauskas, R., Patel, J., Ailawadhi, S., Saber, W., & Khera, N. Use of hematopoietic cell transplant for hematologic cancers by race, ethnicity, and age. *JAMA Network Open*, 7(9), e2433145. PMID: 39292462. 09/18/2024.
- Hamilton, B. K., Pandya, B. J., Ivanescu, C., Elsouda, D., Hamadani, M., Chen, Y. B., Levis, M. J., Ueda Oshima, M., et al. Health-related quality of life with gilteritinib vs placebo posttransplant for FLT3-ITD+ acute myeloid leukemia. *Blood Advances*, 8(19), 5091-5099. PMID: 39167766. 08/21/2024.
- Hill, J. A., Martens, M. J., Young, J. H., Bhavsar, K., Kou, J., Chen, M., Lee, L. W., Baluch, A., Dhodapkar, M. V., et al. SARS-CoV-2 vaccination in the first year after hematopoietic cell transplant or chimeric antigen receptor T-cell therapy: A prospective, multicenter, observational study. *Clinical Infectious Diseases*, 79(2), 542-554. PMID: 3880174. 05/27/2024.
- Holmes, B. D., Brazauskas, R., & Chhabra, H. S. Spinal cord injury etiology, severity, and care in East Asia: a cross-sectional analysis of the International Spinal Cord Society Database Project. *Spinal Cord*, 62(7), 421-427. PMID: 38914754. 06/25/2024.
- Huang, F., Li, K., Chen, Z., Cui, Z., Hankey, W., Fang, K., Yan, J., Wang, H., Jin, V. X., Dong, Y., & Wang, Q. Integrative analysis identifies the atypical repressor E2F8 as a targetable transcriptional activator driving lethal prostate cancer. *Oncogene*. PMID: 39613933. 11/30/2024.
- Huffman, J. E., Nicholas, J., Hahn, J., Heath, A. S., Raffield, L. M., Yanek, L. R., Brody, J. A., Thibord, F., Almasy, L., et al. Whole-genome analysis of plasma fibrinogen reveals population-differentiated genetic regulators with

- putative liver roles. *Blood*, 144(21), 2248-2265. PMID: 39226462. 09/03/2024.
- Jain, T., Estrada-Merly, N., Salas, M. Q., Kim, S., DeVos, J., Chen, M., Fang, X., Kumar, R., Andrade-Campos, M., et al. Donor types and outcomes of transplantation in myelofibrosis: a CIBMTR study. *Blood Advances*, 8(16), 4281-4293. PMID: 38916866. 06/25/2024.
- Jakubek, Y. A., Ma, X., Stilp, A. M., Yu, F., Bacon, J., Wong, J. W., Aguet, F., Ardlie, K., Arnett, D., Barnes, K., et al. Genomic and phenotypic correlates of mosaic loss of chromosome Y in blood. *medRxiv: The Preprint Server for Health Sciences*. PMID: 38699360. 05/03/2024.
- Jeong, H. J., Tarima, S., Nguyen, A., Qashqai, A., Muriello, M., Basel, D., & Slavens, B. A. Lower extremity inter-joint coupling angles and variability during gait in pediatric hypermobility spectrum disorder. *Journal of Biomechanics*, 170, 112151. PMID: 38851094. 06/09/2024.
- Jiang, M. Z., Gaynor, S. M., Li, X., Van Buren, E., Stilp, A., Buth, E., Wang, F. F., Manansala, R., Gogarten, S. M., Li, Z., et al. Whole genome sequencing based analysis of inflammation biomarkers in the Trans-Omics for Precision Medicine (TOPMed) consortium. *Human Molecular Genetics*, 33(16), 1429-1441. PMID: 38747556. 05/15/2024.
- Konop, K. A., Fritz, J. M., Graf, A., Celin, M. R., Kruger, K. M., Radmanovic, K., Krzak, J., Yang, K., Teng, B. Q., et al. Ankle push-off metrics and electromyography in mild to moderate osteogenesis imperfecta. *Biomedical Sciences Instrumentation*, 60(1), 41-56. PMID: 39324267. 04/01/2024.
- Kahn, J., Brazauskas, R., Bo-Subait, S., Buchbinder, D., Hamilton, B. K., Schoemans, H., Abraham, A. A., et al. Late effects after allogeneic haematopoietic cell transplantation in children and adolescents with non-malignant disorders: a retrospective cohort study. *The Lancet Child & Adolescent Health*, 8(10), 740-750. PMID: 39217999. 09/02/2024.
- Kalia, S. S., Boddicker, N. J., Yadav, S., Huang, H., Na, J., Hu, C., Ambrosone, C. B., Yao, S., Haiman, C. A., Chen, F., et al. Development of a breast cancer risk prediction model integrating monogenic, polygenic, and epidemiologic risk. *Cancer Epidemiology, Biomarkers & Prevention*, 33(11), 1490-1499. PMID: 39259185. 09/11/2024.
- Keener, R., Chhetri, S. B., Connelly, C. J., Taub, M. A., Conomos, M. P., Weinstock, J., Ni, B., Strober, B., et al. Validation of human telomere length multi-ancestry meta-analysis association signals identifies POP5 and KBTBD6 as human telomere length regulation genes. *Nature Communications*, 15(1), 4417. PMID: 38789417. 05/25/2024.
- Kentistou, K. A., Kaisinger, L. R., Stankovic, S., Vaudel, M., Mendes de Oliveira, E., Messina, A., et al. Understanding the genetic complexity of puberty timing across the allele frequency spectrum. *Nature Genetics*, 56(7), 1397-1411. PMID: 38951643. 07/02/2024.
- Khera, N., Ailawadhi, S., Brazauskas, R., Patel, J., Jacobs, B., Ustun, C., Ballen, K., Abid, M. B., Diaz Perez, M. A., et al. Trends in volumes and survival after hematopoietic cell transplantation in racial/ethnic minorities. *Blood Advances*, 8(13), 3497-3506. PMID: 38661372. 04/25/2024.
- King, J. A., Nelson, L. D., Cheever, K., Brett, B., Gliedt, J., Szabo, A., Dong, H., Huber, D. L., Broglio, S. P., et al. The prevalence and influence of new or worsened neck pain after a sport-related concussion in collegiate athletes: A study from the CARE Consortium. *The American Journal of Sports Medicine*, 52(7), 1845-1854. PMID: 38742422. 05/14/2024.
- Kosuru, R., Romito, O., Sharma, G. P., Ferraresto, F., Ghadrdoost Nakhchi, B., Yang, K., Mammoto, T., et al. Rap1A modulates store-operated calcium entry in the lung endothelium: A novel mechanism controlling NFAT-mediated vascular inflammation and permeability. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 44(11), 2271-2287. PMID: 39324266. 09/26/2024.
- Lara, S. T., Rein, L. E., Simanek, A. M., Totoraitis, M. F., Rausch, D. J., Weston, B. W., Ahn, K. W., Meurer, J. R., Beyer, K. M. M. Asthma as a risk factor for hospitalization in children and youth with COVID-19: A retrospective cohort study. *The Pediatric Infectious Disease Journal*, 43(5), 437-443. PMID: 38241639. 01/19/2024.
- Lauer, K. K., Zhang, D., Lunar, L., Landry, C., Welter, J., Flemming, K., Franco, R., Siclovan, D., Avdeev, J., et al. Quality improvement initiative: Use of the STOP-BANG score and monitoring to reduce adverse events in hospitalised patients at risk of obstructive sleep apnoea. *BMJ Open Quality*, 13(4). PMID: 39608972. 11/29/2024.

- Lee, C. J., Wang, T., Chen, K., Arora, M., Brazauskas, R., Spellman, S. R., Kitko, C., MacMillan, M. L., Pidala, J. A., et al. Severity of chronic graft-versus-host disease and late effects following allogeneic hematopoietic cell transplantation for adults with hematologic malignancy. *Transplantation and Cellular Therapy*, 30(1), 97.e1-97.e14. PMID: 12720215. 01/27/2024.
- Levis, M. J., Hamadani, M., Logan, B., Jones, R. J., Singh, A. K., Litzow, M., Wingard, J. R., Papadopoulos, E. B., et al. Gilteritinib as post-transplant maintenance for AML with internal tandem duplication mutation of FLT3. *Journal of Clinical Oncology*, 42(15), 1766-1775. PMID: 38471061. 03/12/2024.
- Li, C. X. R., Shaik, T., Canales, B., Yang, X., Szabo, A., Lauer, K., Gould, J., Kothari, A. N., Verhagen, N. B., et al. Characterizing the impact of SARS-CoV-2 reinfection on surgical outcomes. *The British Journal of Surgery*, 111(1). PMID: 38215236. 01/12/2024.
- Li, J. R., Arsang-Jang, S., Cheng, Y., Sun, F., D'Souza, A., Dhakal, B., Hari, P., Huang, Q., Auer, P., Li, Y., et al. Enhancing prognostic power in multiple myeloma using a plasma cell signature derived from single-cell RNA sequencing. *Blood Cancer Journal*, 14(1), 38. PMID: 38443358. 03/06/2024.
- Lopez, A. A., Luebke, J. M., Redner, R., Abusabaitan, H., & Tarima, S. Substance use overdose deaths among Black and Indigenous women in Wisconsin: A review of death certificate data from 2018 to 2020. *Journal of Addiction Medicine*, 18(2), 153-159. PMID: 38180867. 01/05/2024.
- Mack, T. M., Raddatz, M. A., Pershad, Y., Nachun, D. C., Taylor, K. D., Guo, X., Shuldiner, A. R., O'Connell, J. R., et al. Epigenetic and proteomic signatures associate with clonal hematopoiesis expansion rate. *Nature Aging*, 4(8), 1043-1052. PMID: 38834882.
- Maranto, C., Sabharwal, L., Udhane, V., Pitzen, S. P., McCluskey, B., Qi, S., O'Connor, C., Devi, S., et al. Stat5 induces androgen receptor (AR) gene transcription in prostate cancer and offers a druggable pathway to target AR signaling. *Science Advances*, 10(9), eadi2742. PMID: 38416822.
- Martens, M. J., Gao, Y., & Szabo, A. Corrigendum to "Designing and conducting a clinical trial in blood and marrow transplantation" [Best Pract Res Clin Haematol 36 (2023) 101471]. *Best Practice & Research Clinical Haematology*, 37(1), 101538. PMID: 38490769.
- McDonnell, S. M., Flynn, K. E., Barnekow, K., Kim, U. O., Brazauskas, R., Ahamed, S. I., McIntosh, J. J., Pitt, M. B., et al. Black women and the preemie prep for parents (P3) program: Exploratory analysis of a clinical trial. *PEC Innovation*, 5, 100346. PMID: 39434846.
- Mehdi, M., Szabo, A., Shreenivas, A., Thomas, J. P., Tsai, S., Christians, K. K., Evans, D. B., Clarke, C. N., et al. Chemotherapy-free treatment targeting fusions and driver mutations in KRAS wild-type pancreatic ductal adenocarcinoma, a case series. *Therapeutic Advances in Medical Oncology*, 16, 17588359241253113. PMID: 38770091.
- Mehta, R. S., Petersdorf, E. W., Wang, T., & Lee, S. J. (2024, September). Haploidentical versus mismatched unrelated donor hematopoietic cell transplantation: HLA factors and donor age considerations. *Transplantation and Cellular Therapy*, 30(9), 909.e1-909.e11. PMID: 38992469.
- Mehta, R. S., Petersdorf, E. W., Wang, T., Spellman, S. R., & Lee, S. J. Interplay between donor age and HLA-DP matching in 10/10 HLA-matched unrelated donor HCT. *Blood Advances*, 8(20), 5438-5449. PMID: 39008717.
- Mercadal, S., Ahn, K. W., Allbee-Johnson, M., Ganguly, S., Geethakumari, P. R., Hong, S., Malone, A., et al. Outcomes of patients with primary central nervous system lymphoma following CD19-targeted chimeric antigen receptor T-cell therapy. *Haematologica*, 110(1), 218-221. PMID: 39234871.
- Moe, A., Rayasam, A., Sauber, G., Shah, R. K., Doherty, A., Yuan, C. Y., Szabo, A., Moore, B. M. 2nd, et al. Type 2 cannabinoid receptor expression on microglial cells regulates neuroinflammation during graft-versus-host disease. *The Journal of Clinical Investigation*. PMID: 38662453.
- Mohan, M., Monge, J., Shah, N., Luan, D., Forsberg, M., Bhatlapenumarthy, V., Balev, M., Patwari, A., et al. Teclistamab in relapsed refractory multiple myeloma: Multi-institutional real-world study. *Blood Cancer Journal*, 14(1), 35. PMID: 38443345.
- Mohan, M., Szabo, A., Patwari, A., Esselmann, J., Patel, T., Bachu, R., Rein, L. E., Janardan, A., et al. Autologous stem cell boost improves persistent immune effector cell associated hematotoxicity following BCMA directed chimeric antigen receptor T (CAR T) cell therapy in multiple myeloma. *Bone Marrow Transplantation*, 59(5), 647-652. PMID: 38361116.

- Murthy, G. S. G., Saliba, A. N., Szabo, A., Harrington, A., Abedin, S., Carlson, K., Michaelis, L., Runaas, L., Baim, A., et al. A phase I study of pevoneditat, azacitidine, and venetoclax in patients with relapsed/refractory acute myeloid leukemia. *Haematologica*, 109(9), 2864-2872. PMID: 38572562.
- Muthiah, C., Lian, Q., Benz, S., Szabo, A., Hoffmeister, K., Botero, J. P., & Michaelis, L. C. An extensive database analysis demonstrates significant increase in platelet quantity in unselected hospitalized patients following treatment with oseltamivir. *Haematologica*, 109(6), 1933-1935. PMID: 38385256.
- Muthiah, C., Narra, R., Atallah, E., Juan, W., Szabo, A., & Guru Murthy, G. S. (2024, May). Evaluating population-level outcomes in Chronic Lymphocytic leukemia in the era of novel therapies using the SEER registry. *Leukemia Research*, 140, 107496. PMID: 38547577.
- Nerenz, R. D., Hooshmand, S. I., Jackowiak, E., Shirilla, D., Yang, Y., Yang, K., & Obeidat, A. Z. Clinical decision support improves autoimmune/paraneoplastic antibody panel utilization. *American Journal of Clinical Pathology*, 163(1), 109-120. PMID: 39255415.
- Neuner, J. M., Stolley, M., Kamaraju, S., Tiegs, J., Sparapani, R., Makris, V., & Flynn, K. E. The association of distress and depression screening measures and other electronic health record information with adjuvant endocrine therapy persistence. *Breast Cancer Research and Treatment*, 209(3), 541-552. PMID: 39592520.
- Pandya, B. J., Burns, L. J., Wang, T., Xie, B., Touya, M., Spalding, J., Block, A., Kuperman, G., Young, C. Clinical outcomes and treatment patterns in adults with FLT3-ITDmut+ acute myeloid leukemia undergoing allogeneic hemopoietic cell transplantation in the United States and Canada. *Transplantation and Cellular Therapy*, 30(7), 683.e1-683.e13. PMID: 38663769.
- Pant, T., Lin, C. W., Bedrat, A., Jia, S., Roethle, M. F., Truchan, N. A., Ciecko, A. E., et al. Monocytes in type 1 diabetes families exhibit high cytolytic activity and subset abundances that correlate with clinical progression. *Science Advances*, 10(20), eadn2136. PMID: 38758799.
- Papanicolaou, G. A., Chen, M., He, N., Martens, M. J., Kim, S., Batista, M. V., Bhatt, N. S., Hematti, P., et al. Incidence and impact of fungal infections in post-transplantation cyclophosphamide-based graft-versus-host disease prophylaxis and haploidentical hematopoietic cell transplantation: A Center for International Blood and Marrow Transplant Research analysis. *Transplantation and Cellular Therapy*, 30(1), 114.e1-114.e16. PMID: 37775070.
- Pasquini, M. C., Wallace, P. K., Logan, B., Kaur, M., Tario, J. D., Howard, A., Zhang, Y., Brunstein, C., Efebera, Y., et al. Minimal residual disease status in multiple myeloma 1 year after autologous hematopoietic cell transplantation and lenalidomide maintenance are associated with long-term overall survival. *Journal of Clinical Oncology*, 42(23), 2757-2768. PMID: 38701390.
- Patel, M., Liu, X. C., Tassone, C., Escott, B., Yang, K., & Thometz, J. Correlation of transverse rotation of the spine using surface topography and 3D reconstructive radiography in children with idiopathic scoliosis. *Spine Deformity*, 12(4), 1001-1008. PMID: 38403800.
- Patel, M., Liu, X. C., Yang, K., Tassone, C., Escott, B., & Thometz, J. 3D back contour metrics in predicting idiopathic scoliosis progression: Retrospective cohort analysis, case series report and proof of concept. *Children* (Basel, Switzerland), 11(2). PMID: 38397270.
- Patel, S., Visotcky, A., Devine, A., Kode, V., Kotlo, S., Aljadah, M., Sparapani, R., & Kulinski, J. Prevalence, predictors, and outcomes of type 2 NSTEMI in hospitalized patients with COVID-19. *Journal of the American Heart Association*, 13(10), e032572. PMID: 38726904.
- Pershad, Y., Mack, T., Poisner, H., Jakubek, Y. A., Stilp, A. M., Mitchell, B. D., Lewis, J. P., Boerwinkle, E., et al. Determinants of mosaic chromosomal alteration fitness. *Nature Communications*, 15(1), 3800. PMID: 38714703.
- Peterson, K. J., Drezzon, M. K., Sparapani, R., Calata, J. F., Ridolfi, T. J., Ludwig, K. A., & Peterson, C. Y. Traveling long distances for rectal cancer care: Institutional outcomes and patient experiences. *The Journal of Surgical Research*, 302, 916-924. PMID: 39265279.
- Pierro, M., Zurko, J., Szabo, A., Cheng, Y. C., Kamaraju, S., Burfeind, J., Retseck, J., Chitambar, C. R., & Chaudhary, L. N. Matched case control analysis of breast cancer-specific factors affecting risk of developing SARS-CoV-2 infection. *WMJ: Official Publication of the State Medical Society of Wisconsin*, 122(5), 418-421. PMID: 38180937.

- Pollin, G., Mathison, A. J., de Assuncao, T. M., Thomas, A., Zeighami, A., Salmonson, A., Liu, H., et al. Ehmt2 inactivation in pancreatic epithelial cells shapes the transcriptional landscape and inflammation response of the whole pancreas. *Frontiers in Genetics*, 15, 1412767. PMID: 38948355.
- Pollin, G., Mathison, A. J., de Assuncao, T. M., Thomas, A., Zeighami, L., Salmonson, A., Liu, H., et al. EHMT2 inactivation in pancreatic epithelial cells shapes the transcriptional landscape and inflammation response of the whole pancreas. *bioRxiv*. PMID: 38529489.
- Polovneff, A., Shah, N., Janardan, A., Smith, E., Pasillas, I., Mortensen, N., Holt, J. M., Somai, M., Sparapani, R., et al. Scaling care coordination through digital engagement: Stepped-wedge trial assessing readmissions. *The American Journal of Managed Care*, 30(2), e32-e38. PMID: 38381546.
- Pophali, P. A., Fein, J. A., Ahn, K. W., Allbee-Johnson, M., Ahmed, N., Awan, F. T., Farhan, S., Grover, N. S., et al. CD19-directed CART therapy for T-cell/histiocyte-rich large B-cell lymphoma. *Blood Advances*, 8(20), 5290-5296. PMID: 38985302.
- Rademacher, N., Zhou, Y., McGinley, E. L., Laud, P. W., Yen, T. W. F., Ponce, S. B., Nattinger, A. B., & Beyer, K. M. M. Effects of housing stability and contemporary mortgage lending bias on breast cancer stage at diagnosis among older women in the United States. *Cancer Medicine*, 13(14), e7397. PMID: 39030995.
- Rahman, M., Banerjee, A., Yang, Y., Annyapu, E., DeGroot, A. L., Best, B., Braza, D. W., Wang, M. C., & Vedantam, A. Impact of postsurgical rehabilitation on outcomes for degenerative cervical myelopathy. *Journal of Neurosurgery: Spine*, 41(2), 167-173. PMID: 38728769.
- Ray, A., Yang, C., Stelloh, C., Tutaj, M., Liu, P., Liu, Y., Qiu, Q., Auer, P. L., Lin, C. W., Widlansky, M. E., Geurts, A. M., et al. Chromatin state maps of blood pressure-relevant renal segments reveal potential regulatory role for SNPs. *Hypertension*, 82(3), 476-488. PMID: 39723540.
- Reiner, A. P., Raffield, L. M., Ekunwe, L., Olson, N. C., Auer, P. L., & Doyle, M. F. Alterations of T cell subsets associated with sickle cell trait. *Blood Genomics Discovery*, 9(1). PMID: 39720621.
- Roberts, C. J., Popies, J. A., Razzak, A. N., Fang, X., Falcucci, O. A., Pearson, P. J., & Szabo, A. Skin injury: Associations with variables related to perfusion and pressure. *Anaesthesia and Intensive Care*, 52(6), 386-396. PMID: 39394874.
- Rodríguez García, D. M., Szabo, A., Mikesell, A. R., Zorn, S. J., Tsafack, U. K., Sriram, A., Waltz, T. B., et al. High-speed imaging of evoked rodent mechanical behaviors yields variable results that are not predictive of inflammatory injury. *Pain*, 165(7), 1569-1582. PMID: 38314814.
- Roge, S. A., Valiquette, A. M., Teng, B. Q., Yang, K., & Grindel, S. I. Revision rotator cuff repair versus primary repair: An assessment of longitudinal outcomes in revision rotator cuff repair. *Journal of Shoulder and Elbow Surgery*. PMID: 38960138.
- Rubin, M., Suelzer, E., Ulschmid, C., Thapa, B., Szabo, A., & Abid, M. B. Efficacy of SARS-CoV-2 vaccine doses in allogeneic hemopoietic stem cell recipients: A systematic review and meta-analysis. *Asian Pacific Journal of Cancer Prevention*, 25(2), 393-399. PMID: 38415523.
- Rubin, M. J., Wakinekona, N. A., Reilly, M. A., Canales, B., Sparapani, R., Dyer, M., Kibbe, M. R., & Mansukhani, N. A. Reporting and analysis of sex in vascular surgery research. *Journal of Vascular Surgery*, 80(6), 1871-1882. PMID: 38901638.
- Sarka, B. C., Liu, S., Banerjee, A., Stucky, C. L., Liu, Q. S., & Olsen, C. M. Neuropathic pain has sex-specific effects on oxycodone-seeking and non-drug-seeking ensemble neurons in the dorsomedial prefrontal cortex of mice. *Addiction Biology*, 29(8), e13430. PMID: 39121884.
- Sekulovski, N., Carleton, A. E., Rengarajan, A. A., Lin, C. W., Juga, L. N., Whorton, A. E., Schmidt, J. K., et al. Temporally resolved single cell transcriptomics in a human model of amniogenesis. *bioRxiv: The Preprint Server for Biology*. PMID: 39026707.
- Sekulovski, N., Wettstein, J. C., Carleton, A. E., Juga, L. N., Taniguchi, L. E., Ma, X., Rao, S., et al. Temporally resolved early bone morphogenetic protein-driven transcriptional cascade during human amnion specification. *eLife*, 12, RP89367. PMID: 39051990.
- SenthilKumar, G., Schottstaedt, A. M., Peterson, L. L., Pedersen, L. N., Chitambar, C. R., Vistocky, A., Banerjee, A., et al. Stay on Track: A pilot randomized control trial on the feasibility of a diet and exercise intervention in patients with breast cancer receiving radiotherapy. *Cancer Research Communications*, 4(5), 1211-1226.

- PMID: 38530195.
- SenthilKumar, G., Verhagen, N. B., Nimmer, K., Yang, X., Figueroa Castro, C. E., Szabo, A., Taylor, B. W., et al. Risk of early postoperative cardiovascular and cerebrovascular complication in patients with preoperative COVID-19 undergoing cancer surgery. *Journal of the American College of Surgeons*, 238(6), 1085-1097. PMID: 38348959.
- Shadman, M., Ahn, K. W., Kaur, M., Lekakis, L., Beitinjaneh, A., Iqbal, M., Ahmed, N., Hill, B., Hossain, N. M., et al. Autologous transplant vs. CAR-T therapy in patients with DLBCL treated while in complete remission. *Blood Cancer Journal*, 14(1), 108. PMID: 38977682.
- Shaw, B. E., Flynn, K. E., He, N., Cusatis, R., D'Souza, A., Hamilton, B. K., Horowitz, M. M., Mattila, D., Phelan, R., et al. Incorporating patient-reported outcome data into a predictive calculator for allogeneic hematopoietic cell transplantation recipients. *Biology of Blood and Marrow Transplantation*, 30(1), 45-56. PMID: 38198511.
- Sheldon, H., Duncan, N., Singh, A., Endrizzi, S., Conrardy, R., Brazauskas, R., & Peppard, W. Naloxone co-prescribing best practice advisory for patients at high-risk for opioid adverse events. *Journal of Opioid Management*, 20(6), 471-486. PMID: 39324272.
- Smith, M. A., Cheng, G., Phelan, R., Brazauskas, R., Strom, J., Ahn, K. W., Hamilton, B. K., Peterson, A., et al. Pulmonary hypertension in the intensive care unit after pediatric allogeneic hematopoietic stem cell transplant: incidence, risk factors, and outcomes. *Frontiers in Oncology*, 14, 1415984. PMID: 38868534.
- Somasundaram, K., Cronn, S., Banerjee, A., Yoganandan, N., Sun, Z., Hallman, J., & Pintar, F. Sex-based abdominal injury disparities in motor vehicle crash injuries: A clinical review. *Conference Proceedings International Research Council on the Biomechanics of Injury, IRCOBI*, Part 202371, 1009-1010. PMID: 39324272.
- Spellman, S. R., Sparapani, R., Maiers, M., Shaw, B. E., Laud, P., Bupp, C., He, M., Devine, S. M., & Logan, B. R. (Novel machine learning technique further clarifies unrelated donor selection to optimize transplantation outcomes. *Blood Advances*, 8(23), 6082-6087. PMID: 39368807.
- Talluri, B., Addya, S., Terashvili, M., Medda, B. K., Banerjee, A., Shaker, R., Sengupta, J. N., & Banerjee, B. Adult zymosan re-exposure exacerbates the molecular alterations in the brainstem rostral ventromedial medulla of rats with early life zymosan-induced cystitis. *Neurobiology of Pain*, 16, 100160. PMID: 39252992.
- Turcotte, L. M., Wang, T., Beyer, K. M., Cole, S. W., Spellman, S. R., Allbee-Johnson, M., Williams, E., Zhou, Y., et al. The health risk of social disadvantage is transplantable into a new host. *Proceedings of the National Academy of Sciences of the United States of America*, 121(30), e2404108121. PMID: 39008669.
- Ustun, C., Chen, M., Kim, S., Auletta, J. J., Batista, M. V., Battiwalla, M., Cerny, J., Gowda, L., Hill, J. A., et al. Post-transplantation cyclophosphamide is associated with increased bacterial infections. *Bone Marrow Transplantation*, 59(1), 76-84. PMID: 39324272.
- Wallis, W., Gulbis, A. M., Wang, T., Lee, C. J., Sharma, A., Williams, K. M., Nishihori, T., Prestidge, T., Gowda, L., et al. Incidence of bacterial blood stream infections in patients with acute GVHD. *Bone Marrow Transplantation*, 60(1), 52-57. PMID: 39420192.
- Webster, A. P., Ecker, S., Moghul, I., Liu, X., Dhami, P., Marzi, S., Paul, D. S., Kuxhausen, M., Lee, S. J., et al. Donor whole blood DNA methylation is not a strong predictor of acute graft-versus-host disease in unrelated donor allogeneic haematopoietic cell transplantation. *Frontiers in Genetics*, 15, 1242636. PMID: 38633407.
- Woertz, E. N., Ayala, G. D., Wynne, N., Tarima, S., Zacharias, S., Brilliant, M. H., Dunn, T. M., Costakos, D., et al. Quantitative foveal structural metrics as predictors of visual acuity in human albinism. *Investigative Ophthalmology & Visual Science*, 65(3), 3. PMID: 38441889.
- Yohay, S., Oloyede, T., Kim, S., Fang, X., Dhakal, B., Ajaz, A., Mohan, M., Narra, R., Pasquini, M., D'Souza, A., et al. Outcomes of frail patients undergoing high-dose chemotherapy and autologous stem cell transplantation for multiple myeloma. *British Journal of Haematology*, 205(6), 2370-2375. PMID: 39396814.
- Zenga, J., Himburg, H. A., Wong, S. J., Kearl, T., Hematti, P., Jin, V. X., Memon, A. A., Mathison, A. J., Awan, M. J. In silico identification of public neo-antigens in head and neck cancer for T cell receptor engineering: Targeting PI3KCA and TP53 missense mutations. *Oral Oncology*, 156, 106947. PMID: 39009483.
- Zhou, Y., He, Z., Li, T., Choppavarapu, L., Hu, X., Cao, R., Leone, G. W., Kahn, M., & Jin, V. X. 3D chromatin alteration by disrupting β-catenin/CBP interaction is enriched with insulin signaling in pancreatic cancer. *Cancers*,

16(12). PMID: 38927910.

Zinter, M. S., Brazauskas, R., Strom, J., Chen, S., Bo-Subait, S., Sharma, A., Beitinjaneh, A., Dimitrova, D., et al. Critical illness risk and long-term outcomes following intensive care in pediatric hematopoietic cell transplant recipients. *Blood Advances*, 8(4), 1002-1017. PMID: 39324270.