

# Department of Biostatistics 2022-2023 Publications List

Faculty with the Department of Biostatistics circulated a collective 181 publications in fiscal year 2023. The alphabetical list of faculty and their respective publications is listed below.

## Summary

### Bacher, Rhonda L

1. Dong, X, Bacher, R (2023) . Analysis of Single-Cell RNA-seq Data. *Methods in molecular biology (Clifton, N.J.)* , [https://doi.org/10.1007/978-1-0716-2986-4\\_6](https://doi.org/10.1007/978-1-0716-2986-4_6). PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36929075>.

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2. Marshall, GP, Cserny, J, Wang, CW, Looney, B, Posgai, AL, Bacher, R, Keselowsky, B, Brusko, TM (2023) . Biomaterials-based nanoparticles conjugated to regulatory T cells provide a modular system for localized delivery of pharmacotherapeutic agents. *Journal of biomedical materials research. Part A* , <https://doi.org/10.1002/jbm.a.37442>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36082558>.

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3. Brakenridge, SC, Chen, UI, Loftus, T, Ungaro, R, Dirain, M, Kerr, A, Zhong, L, Bacher, R, Starostik, P, Ghita, G, Midic, U, Darden, D, Fenner, B, Wacker, J, Efron, PA, Liesenfeld, O, Sweeney, TE, Moldawer, LL (2022) . Evaluation of a Multivalent Transcriptomic Metric for Diagnosing Surgical Sepsis and Estimating Mortality Among Critically Ill Patients. *JAMA network open* , <https://doi.org/10.1001/jamanetworkopen.2022.21520>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/35819783>.

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1. Perry, DJ, Shapiro, MR, Chamberlain, SW, Kusmartseva, I, Chamala, S, Balzano-Nogueira, L, Yang, M, Brant, JO, Brusko, M, Williams, MD, McGrail, KM, McNichols, J, Peters, LD, Posgai, AL, Kaddis, JS,

Mathews, CE, Wasserfall, CH, Webb-Robertson, BM, Campbell-Thompson, M, Schatz, D, Evans-Molina, C, Pugliese, A, Concannon, P, Anderson, MS, German, MS, Chamberlain, CE, Atkinson, MA, Brusko, TM (2023) . A genomic data archive from the Network for Pancreatic Organ donors with Diabetes. *Scientific data* , <https://doi.org/10.1038/s41597-023-02244-6>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/37237059>.

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2. Ju, LS, Zhu, J, Brant, JO, Morey, TE, Gravenstein, N, Seubert, CN, Vasilopoulos, T, Setlow, B, Martynyuk, AE (2023) . Intergenerational Perioperative Neurocognitive Disorder in Young Adult Male Rats with Traumatic Brain Injury. *Anesthesiology* , <https://doi.org/10.1097/ALN.0000000000004496>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36637480>.

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3. Yang, Z, Tong, Y, Brant, JO, Li, N, Ju, L, Morey, TE, Gravenstein, N, Setlow, B, Zhang, J, Martynyuk, AE (2022) . Dexmedetomidine Diminishes, but Does Not Prevent, Developmental Effects of Sevoflurane in Neonatal Rats. *Anesthesia & Analgesia* , <https://doi.org/10.1213/ane.0000000000006125>.
  4. Murray, KO, Brant, JO, Kladde, MP, Clanton, TL (2022) . Long-term epigenetic and metabolomic changes in the mouse ventricular myocardium after exertional heat stroke. *Physiological Genomics* , <https://doi.org/10.1152/physiolgenomics.00147.2021>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36215393>.

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#### Chen,Li

1. Agarwal, A, Chen, L (2023) . DeepPHiC: predicting promoter-centered chromatin interactions using a novel deep learning approach. *Bioinformatics (Oxford, England)* , <https://doi.org/10.1093/bioinformatics/btac801>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36495179>.

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2. Guan, PY, Lee, JS, Wang, L, Lin, KZ, Mei, W, Chen, L, Jiang, Y (2023) . Destin2: Integrative and cross-modality analysis of single-cell chromatin accessibility data. *Frontiers in*

genetics , <https://doi.org/10.3389/fgene.2023.1089936>. PubMed

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3. Tang, PC, Chen, L, Singh, S, Groves, AK, Koehler, KR, Liu, XZ, Nelson, RF (2023) . Early Wnt Signaling Activation Promotes Inner Ear Differentiation via Cell Caudalization in Mouse Stem Cell-Derived Organoids. *Stem cells (Dayton, Ohio)* , <https://doi.org/10.1093/stmcls/sxac071>. PubMed  
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4. Agarwal, A, Zhao, F, Jiang, Y, Chen, L (2023) . TIVAN-indel: a computational framework for annotating and predicting non-coding regulatory small insertions and deletions. *Bioinformatics (Oxford, England)* , <https://doi.org/10.1093/bioinformatics/btad060>. PubMed  
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1. Ahn, S, Grimes, T, Datta, S (2023) . A pseudo-value regression approach for differential network analysis of co-expression data. *BMC bioinformatics* , <https://doi.org/10.1186/s12859-022-05123-w>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36624383>.

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2. Anyaso-Samuel, S, Datta, S (2023) . Adjusting for informative cluster size in pseudo-value-based regression approaches with clustered time to event data. *Statistics in Medicine* , <https://doi.org/10.1002/sim.9716>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/36973919>.

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3. Kang, T, Gaskins, J, Levy, S, Datta, S (2023) . Analyzing dental fluorosis data using a novel Bayesian model for clustered longitudinal ordinal outcomes with an inflated category. *Statistics in Medicine* , <https://doi.org/10.1002/sim.9641>.

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5. Siriwardhana, C, Kulasekera, K, Datta, S (2023) . Selection of the optimal personalized treatment from multiple treatments with right-censored multivariate outcome measures. *Journal of Applied Statistics* , <https://doi.org/10.1080/02664763.2022.2164759>.

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1. Zhang, R, Datta, S (2023) . Adaptive Sparse Multi-Block PLS Discriminant Analysis: An Integrative Method for Identifying Key Biomarkers from Multi-Omics Data. *Genes* , <https://doi.org/10.3390/genes14050961>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/37239321>.

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3. Cheng, TD, Zhang, R, Gong, Z, Qin, B, Cannioto, RA, Datta, S, Zhang, W, Omilian, AR, Yao, S, Khoury, T, Hong, C, Bandera, EV, Ambrosone, CB (2023) . Association Between Recreational Physical Activity and mTOR Signaling Pathway Protein Expression in Breast Tumor Tissue. *Cancer Research Communications* , <https://doi.org/10.1158/2767-9764.crc-22-0405>.

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4. Ellis, D, Roy, A, Datta, S (2023) . Clustering single-cell multimodal omics data with jrSiCKLSNMF. *Frontiers in genetics* , <https://doi.org/10.3389/fgene.2023.1179439>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/37359367>.

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5. Guirgis, FW, Jacob, V, Wu, D, Henson, M, Daly-Crews, K, Hopson, C, Black, LP, DeVos, EL, Sulaiman, D, Labilloy, G, Brusko, TM, Shavit, JA, Bertrand, A, Feldhammer, M, Baskovich, B, Graim, K, Datta, S, Reddy, ST (2023) . DHCR7 Expression Predicts Poor Outcomes and Mortality From Sepsis. *Critical care explorations* , <https://doi.org/10.1097/CCE.0000000000000929>. PubMed ID: <https://pubmed.ncbi.nlm.nih.gov/37332366>.

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