

Bingqing Zhao

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Bio

INSTITUTE AFFILIATIONS

- Member (Staff), Cardiovascular Institute

Publications

PUBLICATIONS

- **Multi-omic identification of key transcriptional regulatory programs during endurance exercise training in rats.** *Nature communications*
Smith, G. R., Zhao, B., Lindholm, M. E., Raja, A., Viggars, M., Pincas, H., Gay, N. R., Sun, Y., Vangeti, S., Ge, Y., Nair, V. D., Sanford, J. A., Amper, et al
2026
- **Multi-omics analysis of endurance exercise reveals cardioprotective remodeling in rat heart**
Brochet, P., Njoroge, J., Montalvo Hernandez, S., Lindholm, M., Smith, G., Amar, D., Gay, N., Zhao, B., Hung, C., Jin, C., Chavez, C., Nachun, D., Zaslavsky, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Integrating genetic variation with deep learning provides context for variants impacting transcription factor binding during embryogenesis** *GENOME RESEARCH*
Sigalova, O. M., Forneris, M., Stojanovska, F., Zhao, B., Viales, R. R., Rabinowitz, A., Hammal, F., Ballester, B., Zaugg, J. B., Furlong, E. E. M.
2025; 35 (5): 1138-1153
- **The impact of exercise on gene regulation in association with complex trait genetics.** *Nature communications*
Vetr, N. G., Gay, N. R., MoTrPAC Study Group, Montgomery, S. B., Adkins, J. N., Albertson, B. G., Amar, D., Amper, M. A., Armenteros, J. J., Ashley, E., Avila-Pacheco, J., Bae, D., Balci, A. T., et al
2024; 15 (1): 3346
- **Temporal dynamics of the multi-omic response to endurance exercise training.** *Nature*
2024; 629 (8010): 174-183
- **Sexual dimorphism and the multi-omic response to exercise training in rat subcutaneous white adipose tissue.** *Nature metabolism*
Many, G. M., Sanford, J. A., Sagendorf, T. J., Hou, Z., Nigro, P., Whytock, K. L., Amar, D., Caputo, T., Gay, N. R., Gaul, D. A., Hirshman, M. F., Jimenez-Morales, D., Lindholm, et al
2024
- **Molecular adaptations in response to exercise training are associated with tissue-specific transcriptomic and epigenomic signatures.** *Cell genomics*
Nair, V. D., Pincas, H., Smith, G. R., Zaslavsky, E., Ge, Y., Amper, M. A., Vasoya, M., Chikina, M., Sun, Y., Raja, A. N., Mao, W., Gay, N. R., Esser, et al
2024: 100421
- **The mitochondrial multi-omic response to exercise training across rat tissues.** *Cell metabolism*
Amar, D., Gay, N. R., Jimenez-Morales, D., Jean Beltran, P. M., Ramaker, M. E., Raja, A. N., Zhao, B., Sun, Y., Marwaha, S., Gaul, D. A., Hershman, S. G., Ferrasse, A., Xia, et al
2024
- **Author Correction: Advances and prospects for the Human BioMolecular Atlas Program (HuBMAP).** *Nature cell biology*

Jain, S., Pei, L., Spraggins, J. M., Angelo, M., Carson, J. P., Gehlenborg, N., Ginty, F., Goncalves, J. P., Hagood, J. S., Hickey, J. W., Kelleher, N. L., Laurent, L. C., Lin, et al
2024

● **Advances and prospects for the Human BioMolecular Atlas Program (HuBMAP).** *Nature cell biology*

Jain, S., Pei, L., Spraggins, J. M., Angelo, M., Carson, J. P., Gehlenborg, N., Ginty, F., Goncalves, J. P., Hagood, J. S., Hickey, J. W., Kelleher, N. L., Laurent, L. C., Lin, et al
2023

● **Molecular Transducers of Physical Activity Consortium (MoTrPAC): Mapping the Dynamic Responses to Exercise.** *Cell*

Sanford, J. A., Nogiec, C. D., Lindholm, M. E., Adkins, J. N., Amar, D., Dasari, S., Drugan, J. K., Fernandez, F. M., Radom-Aizik, S., Schenk, S., Snyder, M. P., Tracy, R. P., Vanderboom, et al
2020; 181 (7): 1464–74

● **The role of translationally controlled tumor protein in proliferation of Drosophila intestinal stem cells.** *Proceedings of the National Academy of Sciences of the United States of America*

Kwon, Y. V., Zhao, B., Xu, C., Lee, J., Chen, C. L., Vinayagam, A., Edgar, B. A., Perrimon, N.
2019

● **Multi-Omics Profiling, Microscopic Cervical Remodeling, and Parturition: Insights from the Smart Diaphragm Study.**

Liang, L., Dunn, J. P., Chen, S., Tsai, M., Hornburg, D., Newmann, S., Avina, M., Leng, Y., Holman, R., Lee, T. H., Qureshi, S., Montelongo, E., Zhao, et al
SAGE PUBLICATIONS INC.2019: 216A

● **Smart Diaphragm Study: Multi-omics profiling and cervical device measurements during pregnancy**

Liang, L., Dunn, J. P., Chen, S., Tsai, M., Hornburg, D., Newmann, S., Chung, P., Avina, M., Leng, Y., Holman, R., Lee, T. H., Berrios, S., Qureshi, et al
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