Stanford

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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
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- **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.
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- **The impact of exercise on gene regulation in association with complex trait genetics.** *Nature communications*
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- **Temporal dynamics of the multi-omic response to endurance exercise training.** *Nature*
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- **Sexual dimorphism and the multi-omic response to exercise training in rat subcutaneous white adipose tissue.** *Nature metabolism*
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- **Molecular adaptations in response to exercise training are associated with tissue-specific transcriptomic and epigenomic signatures.** *Cell genomics*
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- **The mitochondrial multi-omic response to exercise training across rat tissues.** *Cell metabolism*
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- **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

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- **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., Gonçalves, J. P., Hagood, J. S., Hickey, J. W., Kelleher, N. L., Laurent, L. C., Lin, et al

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

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- **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*

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- **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

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

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