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Publications

PUBLICATIONS

- **Connectome-seq: high-throughput mapping of neuronal connectivity at single-synapse resolution via barcode sequencing.** *Nature methods*
Chen, D., Isakova, A., Wan, Z., Wagner, M. J., Wu, Y., Zhao, B. S.
2026
- **Cellular Aging Signatures in the Plasma Proteome Record Human Health and Disease.** *bioRxiv : the preprint server for biology*
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2026
- **Cell-type resolved protein atlas of brain lysosomes identifies SLC45A1-associated disease as a lysosomal disorder.** *Cell*
Ghoochani, A., Heiby, J. C., Rawat, E. S., Medoh, U. N., Di Fraia, D., Dong, W., Gastou, M., Rastogi, M., Hernandez, V., Nyame, K., Laqtom, N. N., Durso, W., Valkova, et al
2026
- **Biomarkers.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Groves, J., Oh, H. S., Farinas, A., Bot, V. A., Williams, D. M., Wong, A., Coath, W., Keshavan, A., Moran-Losada, P., James, S. N., Richards, M., Nicholas, J. M., Isakova, et al
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- **Spatial and single-cell transcriptomics reveal the reorganization of cerebellar microglia with aging.** *Cell reports*
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- **Benchmarking cell type and gene set annotation by large language models with AnnDictionary.** *Nature communications*
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- **Scalable single-cell total RNA-seq reveals non-coding programs in immunity, infection, and brain development.** *Research square*
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2025
- **Connectome-seq: High-throughput Mapping of Neuronal Connectivity at Single-Synapse Resolution via Barcode Sequencing.** *bioRxiv : the preprint server for biology*
Chen, D., Isakova, A., Wan, Z. J., Wagner, M. J., Wu, Y., Zhao, B. S.
2025
- **Characterizing expression changes in noncoding RNAs during aging and heterochronic parabiosis across mouse tissues.** *Nature biotechnology*
Wagner, V., Kern, F., Hahn, O., Schaum, N., Ludwig, N., Fehlmann, T., Engel, A., Henn, D., Rishik, S., Isakova, A., Tan, M., Sit, R., Neff, et al
2023
- **Deconvoluting complex correlates of COVID-19 severity with a multi-omic pandemic tracking strategy.** *Nature communications*
Parikh, V. N., Ioannidis, A. G., Jimenez-Morales, D., Gorzynski, J. E., De Jong, H. N., Liu, X., Roque, J., Cepeda-Espinoza, V. P., Osoegawa, K., Hughes, C., Sutton, S. C., Youlton, N., Joshi, et al

2022; 13 (1): 5107

- **Single-Cell Transcriptomic Atlas of the Human Endometrium During the Menstrual Cycle** *OBSTETRICAL & GYNECOLOGICAL SURVEY*
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- **A mouse tissue atlas of small noncoding RNA.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Single-cell transcriptomic atlas of the human endometrium during the menstrual cycle.** *Nature medicine*
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- **miRSwitch: detecting microRNA arm shift and switch events.** *Nucleic acids research*
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