



Anna Elizabeth Eastman

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Bio

ACADEMIC APPOINTMENTS

- Instructor, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)

Publications

PUBLICATIONS

- **Resolving Cell Cycle Speed in One Snapshot with a Live-Cell Fluorescent Reporter.** *Cell reports*
Eastman, A. E., Chen, X., Hu, X., Hartman, A. A., Pearlman Morales, A. M., Yang, C., Lu, J., Kueh, H. Y., Guo, S.
2020; 31 (12): 107804
- **The palette of techniques for cell cycle analysis.** *FEBS letters*
Eastman, A. E., Guo, S.
2020
- **Scalable single-cell total RNA-seq reveals non-coding programs in immunity, infection, and brain development.** *Research square*
Isakova, A., Quake, S., Liu, D., Cvijovic, I., Sinha, R., Eastman, A., Saul, S., Detweiler, A., Neff, N., Einav, S., Weissman, I.
2025
- **Modeling glioma intratumoral heterogeneity with primary human neural stem and progenitor cells.** *Stem cell reports*
Liu, D. D., Gao, D., Womack-Gambrel, N. L., Eastman, A. E., Ohene-Gambill, B. F., Weissman, I. L.
2025: 102597
- **Optimized Workflow for Unbiased Massively Parallel Single Cell Profiling in Human Brain Samples from Autopsy**
Reilly, E., Belk, J., Eastman, A., Womack, N., Enciso, A., Kalluru, R., Raj, S., Weissman, I., Jaiswal, S., Hooper, J.
ELSEVIER SCIENCE INC.2025
- **Dual Fresh/Fixed Tissue Workflow for Novel Cell Type Validation in Human Brains Donated for Rapid Research Autopsy**
Reilly, E., Eastman, A., Womack, N., Belk, J., Liu, D., Raj, S., Jaiswal, S., Weissman, I., Hooper, J.
ELSEVIER SCIENCE INC.2025
- **Modeling Glioma Intratumoral Heterogeneity with Primary Human Neural Stem and Progenitor Cells.** *bioRxiv : the preprint server for biology*
Gao, D., Liu, D. D., Eastman, A. E., Womack, N. L., Ohene-Gambill, B. F., Baez, M., Weissman, I. L.
2024
- **Purification and characterization of human neural stem and progenitor cells.** *Cell*
Liu, D. D., He, J. Q., Sinha, R., Eastman, A. E., Toland, A. M., Morri, M., Neff, N. F., Vogel, H., Uchida, N., Weissman, I. L.
2023; 186 (6): 1179
- **Reprogramming progressive cells display low CAG promoter activity** *STEM CELLS*
Hu, X., Wu, Q., Zhang, J., Kim, J., Chen, X., Hartnnan, A. A., Eastnnan, A. E., Park, I., Guo, S.

2021; 39 (1): 43-54

- **MLL-AF9 initiates transformation from fast-proliferating myeloid progenitors** *NATURE COMMUNICATIONS*
Chen, X., Burkhardt, D. B., Hartman, A. A., Hu, X., Eastman, A. E., Sun, C., Wang, X., Zhong, M., Krishnaswamy, S., Guo, S.
2019; 10: 5767
- **Single-cell RNA sequencing reveals metallothionein heterogeneity during hESC differentiation to definitive endoderm** *STEM CELL RESEARCH*
Lu, J., Baccei, A., da Rocha, E., Guillermier, C., McManus, S., Finney, L. A., Zhang, C., Steinhauser, M. L., Li, H., Lerou, P. H.
2018; 28: 48-55
- **Influence of ATM-Mediated DNA Damage Response on Genomic Variation in Human Induced Pluripotent Stem Cells** *STEM CELLS AND DEVELOPMENT*
Lu, J., Li, H., Baccei, A., Sasaki, T., Gilbert, D. M., Lerou, P. H.
2016; 25 (9): 740-747
- **Multi-Scale Imaging and Informatics Pipeline for In Situ Pluripotent Stem Cell Analysis** *PLOS ONE*
Gorman, B. R., Lu, J., Baccei, A., Lowry, N. C., Purvis, J. E., Mangoubi, R. S., Lerou, P. H.
2014; 9 (12): e116037
- **The Distribution of Genomic Variations in Human iPSCs Is Related to Replication-Timing Reorganization during Reprogramming** *CELL REPORTS*
Lu, J., Li, H., Hu, M., Sasaki, T., Baccei, A., Gilbert, D. M., Liu, J. S., Collins, J. J., Lerou, P. H.
2014; 7 (1): 70-78