

Matthew James McCoy

Basic Life Research Scientist, Pathology Sponsored Projects

Publications

PUBLICATIONS

- **Parallel gene size and isoform expansion of ancient neuronal genes.** *Current biology : CB*
McCoy, M. J., Fire, A. Z.
2024
- **The genetic basis of novel trait gain in walking fish.** *bioRxiv : the preprint server for biology*
Herbert, A. L., Allard, C. A., McCoy, M. J., Wucherpfennig, J. I., Krueger, S. P., Chen, H. I., Gourlay, A. N., Jackson, K. D., Abbo, L. A., Bennett, S. H., Sears, J. D., Rhyne, A. L., Bellono, et al
2023
- **Ancient origins of complex neuronal genes.** *bioRxiv : the preprint server for biology*
McCoy, M. J., Fire, A. Z.
2023
- **Cephalopod-omics: Emerging Fields and Technologies in Cephalopod Biology.** *Integrative and comparative biology*
Baden, T., Briseño, J., Coffing, G., Cohen-Bodénès, S., Courtney, A., Dickerson, D., Dölen, G., Fiorito, G., Gestal, C., Gustafson, T., Heath-Heckman, E., Hua, Q., Imperadore, et al
2023
- **MiR-124 synergism with ELAVL3 enhances target gene expression to promote neuronal maturity.** *Proceedings of the National Academy of Sciences of the United States of America*
Lu, Y. L., Liu, Y., McCoy, M. J., Yoo, A. S.
2021; 118 (22)
- **An Extensive Meta-Metagenomic Search Identifies SARS-CoV-2-Homologous Sequences in Pangolin Lung Viromes.** *mSphere*
Wahba, L., Jain, N., Fire, A. Z., Shoura, M. J., Artiles, K. L., McCoy, M. J., Jeong, D.
2020; 5 (3)
- **Deconstructing Stepwise Fate Conversion of Human Fibroblasts to Neurons by MicroRNAs.** *Cell stem cell*
Cates, K. n., McCoy, M. J., Kwon, J. S., Liu, Y. n., Abernathy, D. G., Zhang, B. n., Liu, S. n., Gontarz, P. n., Kim, W. K., Chen, S. n., Kong, W. n., Ho, J. N., Burbach, et al
2020
- **Intron and gene size expansion during nervous system evolution.** *BMC genomics*
McCoy, M. J., Fire, A. Z.
2020; 21 (1): 360
- **LONGO: an R package for interactive gene length dependent analysis for neuronal identity**
McCoy, M. J., Paul, A. J., Victor, M. B., Richner, M., Gabel, H. W., Gong, H., Yoo, A. S., Ahn, T.
OXFORD UNIV PRESS.2018: 422–28
- **MicroRNAs Induce a Permissive Chromatin Environment that Enables Neuronal Subtype-Specific Reprogramming of Adult Human Fibroblasts** *CELL STEM CELL*
Abernathy, D. G., Kim, W., McCoy, M. J., Lake, A. M., Ouwenga, R., Lee, S., Xing, X., Li, D., Lee, H., Heuckeroth, R. O., Dougherty, J. D., Wang, T., Yoo, et al
2017; 21 (3): 332-+