



Carmel Grace McCullough

- MD Student with Scholarly Concentration in Molecular Basis of Medicine, expected graduation Spring 2026
- Masters Student in Medicine, admitted Summer 2024

Bio

EDUCATION AND CERTIFICATIONS

- Bachelor of Science, University of Southern California , Neuroscience (2019)

Research & Scholarship

LAB AFFILIATIONS

- Anthony Oro (6/1/2021)

Publications

PUBLICATIONS

- **Resolving spatial subclonal genomic heterogeneity of loss of heterozygosity and extrachromosomal DNA in gliomas** *NATURE COMMUNICATIONS*
Webb, M. G., Chow, F., McCullough, C. G., Zhang, B., Lee, J. J. Y., Bassiouni, R., Garrett III, N. E., Hurth, K., Carpten, J. D., Zada, G., Craig, D. W. 2025; 16 (1): 5290
- **A spatiotemporal and machine-learning platform facilitates the manufacturing of hPSC-derived esophageal mucosa.** *Developmental cell*
Yang, Y., McCullough, C. G., Seninge, L., Guo, L., Kwon, W. J., Zhang, Y., Li, N. Y., Gaddam, S., Pan, C., Zhen, H., Torkelson, J., Glass, I. A., Charville, et al
2025
- **Common mitochondrial deletions in RNA-Seq: evaluation of bulk, single-cell, and spatial transcriptomic datasets** *COMMUNICATIONS BIOLOGY*
Omidshar, A. A., Mccullough, C. G., Xu, L., Boedijono, S., Gerke, D., Webb, M. G., Manojlovic, Z., Sequeira, A., Lew, M. F., Santorelli, M., Serrano, G. E., Beach, T. G., Limon, et al
2024; 7 (1): 200
- **Utilizing RNA and outlier analysis to identify an intronic splice-altering variant in AP4S1 in a sibling pair with progressive spastic paraplegia** *HUMAN MUTATION*
McCullough, C. G., Szelinger, S., Belnap, N., Ramsey, K., Schrauwen, I., Claasen, A. M., Burke, L. W., Siniard, A. L., Huentelman, M. J., Narayanan, V., Craig, D. W.
2020; 41 (2): 412-419