Michael Sellers Cuoco

Updated August 7, 2022

2013

PhD Student, Bioinformatics and Systems Biology

Research interests Retrotransposon activity in the developing, healthy, aging, and diseased

human brain.

Education University of California, San Diego La Jolla, California

PhD in Bioinformatics and Systems Biology In Progress

Advised by Rusty Gage and Eran Mukamel

Trinity College Hartford, Connecticut

BS in Molecular and Cellular Biology May 2016

Minor in Models and Data

Honors and Awards NSF Graduate Research Fellowship 2022

National Science Foundation (NSF)

Spot Award 2017

Broad Institute

Beta Beta Beta National Biology Honors Society 2014

Trinity College

NESCAC Winter All-Academic Team 2014

Trinity College

Research experience Research Associate 2016 – 2020

Broad Institute Cambridge, Massachusetts

Mentors: Aviv Regev, Benjamin Izar, Pratiksha Thakore, Yaara Oren Used methods in single-cell RNA-seq and CRISPR screening to investigate

the mechanisms of cancer drug resistance.

Undergraduate Researcher 2014 - 2016

Dana-Farber Cancer Institute Boston, Massachusetts

Mentors: Matthew Meyerson, Alison Taylor

Used targeted CRISPR-Cas9 approaches to engineer chromosome arm dele-

tion in cancer cell lines.

Undergraduate Researcher

Trinity College Hartford, Connecticut

HHMI Science Education Alliance-Phage Hunters Advancing Genomics

and Evolutionary Science program. (SEA-PHAGES: seaphages.org)
Isolated and purified bacteriophage species. Sequenced and annotated the

bacteriophage's genome

Research: Published

- Eraslan, G., Drokhlyansky, E., Anand, S., Fiskin, E., Subramanian, A., Slyper, M., Wang, J., Wittenberghe, N. V., Rouhana, J. M., Waldman, J., Ashenberg, O., Lek, M., Dionne, D., Win, T. S., Cuoco, M. S., Kuksenko, O., Tsankov, A. M., Branton, P. A., Marshall, J. L., Greka, A., Getz, G., Segrè, A. V., Aguet, F., Rozenblatt-Rosen, O., Ardlie, K. G., Regev, A., "Single-nucleus cross-tissue molecular reference maps toward understanding disease gene function." In: Science (New York, N.Y.) 376 (6594 May 14, 2022). DOI: 10.1126/science.ab14290.
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- Li, J., Pinto-Duarte, A., Zander, M., Cuoco, M. S., Lai, C.-Y., Osteen, J., Fang, L., Luo, C., Lucero, J. D., Gomez-Castanon, R., Nery, J. R., Silva-Garcia, I., Pang, Y., Sejnowski, T. J., Powell, S. B., Ecker, J. R., Mukamel, E. A., Behrens, M. M., "Dnmt3a knockout in excitatory neurons impairs postnatal synapse maturation and increases the repressive histone modification H3K27me3." In: eLife 11 (May 24, 2022). DOI: 10.7554/eLife.66909.
- Bi, K., He, M. X., Bakouny, Z., Kanodia, A., Napolitano, S., Wu, J., Grimaldi, G., Braun, D. A., Cuoco, M. S., Mayorga, A., DelloStritto, L., Bouchard, G., Steinharter, J., Tewari, A. K., Vokes, N. I., Shannon, E., Sun, M., Park, J., Chang, S. L., McGregor, B. A., Haq, R., Denize, T., Signoretti, S., Guerriero, J. L., Vigneau, S., Rozenblatt-Rosen, O., Rotem, A., Regev, A., Choueiri, T. K., Allen, E. M. V., "Tumor and immune reprogramming during immunotherapy in advanced renal cell carcinoma." In: Cancer cell 39 (5 Mar. 13, 2021). DOI: 10.1016/j.ccell.2021.02.015.
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- He, M. X., Cuoco, M. S., Crowdis, J., Bosma-Moody, A., Zhang, Z., Bi, K., Kanodia, A., Su, M.-J., Ku, S.-Y., Garcia, M. M., Sweet, A. R., Rodman, C., DelloStritto, L., Silver, R., Steinharter, J., Shah, P., Izar, B., Walk, N. C., Burke, K. P., Bakouny, Z., Tewari, A. K., Liu, D., Camp, S. Y., Vokes, N. I., Salari, K., Park, J., Vigneau, S., Fong, L., Russo, J. W., Yuan, X., Balk, S. P., Beltran, H., Rozenblatt-Rosen, O., Regev, A., Rotem, A., Taplin, M.-E., Allen, E. M. V., "Transcriptional mediators of treatment resistance in lethal prostate cancer." In: Nature medicine 27 (3 Mar. 2021). DOI: 10.1038/s41591-021-01244-6.
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- and genetic mechanisms shape oncogenic programs in synovial sarcoma." In: *Nature medicine* 27 (2 Jan. 27, 2021). DOI: 10.1038/s41591-020-01212-6.
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Research: Preprint

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Tutor 2014-2016

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Service and Outreach Diversity and Science Lecture Series (DASL) La Jolla, California

Seminar Organizer 2021 - Present Symposium Organizer Fall 2021

Biology Undergraduate and Master's Mentorship Program (BUMMP)

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Graduate Bioinformatics Council (GBIC) La Jolla, California

Director of Onboarding 2021 - Present

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Skills **Programming**

Proficient in: R, LaTeX, Bash.

Symposium Organizer

Familiar with: Python, Google Cloud Platform.