

Michael Sellers Cuoco

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PhD Student, Bioinformatics and Systems Biology

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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 (BISB) In Progress
Advised by Rusty Gage and Eran Mukamel

Trinity College Hartford, Connecticut
BS in Molecular and Cellular Biology May 2017
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 deletion in cancer cell lines.

Undergraduate Researcher 2013
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

- 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.
- Jerby-Arnon, L., Neftel, C., Shore, M. E., Weisman, H. R., Mathewson, N. D., McBride, M. J., Haas, B., Izar, B., Volorio, A., Boulay, G., Cironi, L., Richman, A. R., Broye, L. C., Gurski, J. M., Luo, C. C., Mylvaganam, R., Nguyen, L., Mei, S., Melms, J. C., Georgescu, C., Cohen, O., Buendia-Buendia, J. E., Segerstolpe, A., Sud, M., **Cuoco, M. S.**, Labes, D., Gritsch, S., Zollinger, D. R., Ortogero, N., Beechem, J. M., Nielsen, G. P., Chebib, I., Nguyen-Ngoc, T., Montemurro, M., Cote, G. M., Choy, E., Letovanec, I., Cherix, S., Wagle, N., Sorger, P. K., Haynes, A. B., Mullen, J. T., Stamenkovic, I., Rivera, M. N., Kadoch, C., Wucherpfennig, K. W., Rozenblatt-Rosen, O., Suvà, M. L., Riggi, N., Regev, A., “Opposing immune 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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- Oren, Y., Tsabar, M., **Cuoco, M. S.**, Amir-Zilberstein, L., Cabanos, H. F., Hütter, J.-C., Hu, B., Thakore, P. I., Tabaka, M., Fulco, C. P., Colgan, W., Cuevas, B. M., Hurvitz, S. A., Slamon, D. J., Deik, A., Pierce, K. A., Clish, C., Hata, A. N., Zaganjor, E., Lahav, G., Politi, K., Brugge, J. S., Regev, A., “Cycling cancer persister cells arise from lineages with distinct programs.” In: *Nature* 596 (7873 Aug. 13, 2021). DOI: 10.1038/s41586-021-03796-6.

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- Raundhal, M., Ghosh, S., Myers, S. A., **Cuoco, M. S.**, Singer, M., Carr, S. A., Waikar, S. S., Bonventre, J. V., Ritz, J., Stone, R. M., Steensma, D. P., Regev, A., Glimcher, L. H., "Blockade of IL-22 signaling reverses erythroid dysfunction in stress-induced anemias." In: *Nature immunology* 22 (4 Mar. 24, 2021). DOI: 10.1038/s41590-021-00895-4.
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- Izar, B., Tirosh, I., Stover, E. H., Wakiro, I., **Cuoco, M. S.**, Alter, I., Rodman, C., Leeson, R., Su, M.-J., Shah, P., Iwanicki, M., Walker, S. R., Kanodia, A., Melms, J. C., Mei, S., Lin, J.-R., Porter, C. B. M., Slyper, M., Waldman, J., Jerby-Arnon, L., Ashenberg, O., Brinker, T. J., Mills, C., Rogava, M., Vigneau, S., Sorger, P. K., Garraway, L. A., Konstantinopoulos, P. A., Liu, J. F., Matulonis, U., Johnson, B. E., Rozenblatt-Rosen, O., Rotem, A., Regev, A., "A single-cell landscape of high-grade serous ovarian cancer." In: *Nature medicine* 26 (8 June 24, 2020). DOI: 10.1038/s41591-020-0926-0.
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- Li, A., Herbst, R. H., Canner, D., Schenkel, J. M., Smith, O. C., Kim, J. Y., Hillman, M., Bhutkar, A., **Cuoco, M. S.**, Rappazzo, C. G., Rogers, P., Dang, C., Jerby-Arnon, L., Rozenblatt-Rosen, O., Cong, L., Birnbaum, M., Regev, A., Jacks, T., "IL-33 Signaling Alters Regulatory T Cell Diversity in Support of Tumor Development." In: *Cell reports* 29 (10 Dec. 2019). DOI: 10.1016/j.celrep.2019.10.120.
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- B. E., Rotem, A., Rozenblatt-Rosen, O., Garraway, L. A., Yoon, C. H., Izar, B., Regev, A., “A Cancer Cell Program Promotes T Cell Exclusion and Resistance to Checkpoint Blockade.” In: *Cell* 175 (4 Nov. 2018). DOI: 10.1016/j.cell.2018.09.006.
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Research: Preprint

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- of archival pancreatic cancer reveals multi-compartment reprogramming after neoadjuvant treatment". In: *BioRxiv* (2020). DOI: 10.1101/2020.08.25.267336.
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Teaching experience

Bootcamp instructor

Bioinformatics and Systems Biology, UCSD

Fall 2021, Fall 2022

La Jolla, California

Teaching assistant

Spring 2015

Department of Biology, Trinity College
BIOL 224: Genetics

Hartford, Connecticut

Tutor

2014-2016

Department of Biology, Trinity College
BIOL 182: Evolution of Life
BIOL 183: Cellular Basis of Life
BIOL 224: Genetics

Hartford, Connecticut

Skills

Programming

Proficient in: R, LaTeX, Bash.

Familiar with: Python, Google Cloud Platform.

Service and Outreach

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

Seminar Organizer

2021 - Present

Symposium Organizer

Fall 2021

Organized and led 3-day symposium focused on issues of diversity, equity and inclusion in STEM

Biology Undergraduate and Master's Mentorship Program (BUMMP)

La Jolla, California

Mentor

2021 - Present

Meet with undergraduate students twice quarterly to review

Graduate Bioinformatics Council (GBIC)

La Jolla, California

Head of Onboarding

2021 - Present

Led onboarding of new cohorts to Bioinformatics and Systems Biology graduate program

Symposium Organizer

2022