

Michael Sellers Cuoco

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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

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 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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- 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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Teaching experience	Bootcamp instructor <i>Bioinformatics and Systems Biology, UCSD</i>	Fall 2021, Fall 2022 La Jolla, California
	Teaching assistant <i>Department of Biology, Trinity College</i> BIOL 224: Genetics	Spring 2015 Hartford, Connecticut
	Tutor <i>Department of Biology, Trinity College</i> BIOL 182: Evolution of Life BIOL 183: Cellular Basis of Life BIOL 224: Genetics	2014-2016 Hartford, Connecticut
Service and Outreach	Diversity and Science Lecture Series (DASL) <i>Seminar Organizer</i> <i>Symposium Organizer</i>	La Jolla, California 2021 - Present Fall 2021
	Biology Undergraduate and Master's Mentorship Program (BUMMP) <i>Mentor</i>	La Jolla, California 2021 - Present
	Graduate Bioinformatics Council (GBIC) <i>Director of Onboarding</i> <i>Symposium Organizer</i>	La Jolla, California 2021 - Present 2022
	SciChats@Salk Education Outreach <i>Volunteer - High Tech High Mesa</i> <i>Volunteer - La Jolla High School</i>	La Jolla, California Fall 2021 Fall 2021
Skills	Programming Proficient in: R, LaTeX, Bash. Familiar with: Python, Google Cloud Platform.	