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 — 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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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.

Pelka, K., Hofree, M., Chen, J. H., Sarkizova, S., Pirl, J. D., Jorgji, V., Bejnood, A., Dionne, D., Ge, W. H., Xu, K. H., Chao, S. X., Zollinger, D. R., Lieb, D. J., Reeves, J. W., Fuhrman, C. A., Hoang, M. L., Delorey, T., Nguyen, L. T., Waldman, J., Klapholz, M., Wakiro, I., Cohen, O., Albers, J., Smillie, C. S., **Cuoco, M. S.**, Wu, J., Su, M.-J., Yeung, J., Vijaykumar, B., Magnuson, A. M., Asinovski, N., Moll, T., Goder-Reiser, M. N., Applebaum, A. S., Brais, L. K., DelloStritto, L. K., Denning, S. L., Phillips, S. T., Hill, E. K., Meehan, J. K., Frederick, D. T., Sharova, T., Kanodia, A., Todres, E. Z., Jané-Valbuena, J., Biton, M., Izar, B., Lambden, C. D., Clancy, T. E., Bleday, R., Melnitchouk, N., Irani, J., Kunitake, H., Berger, D. L., Srivastava, A., Hornick, J. L., Ogino, S., Rotem, A., Vigneau, S., Johnson, B. E., Corcoran, R. B., Sharpe, A. H., Kuchroo, V. K., Ng, K., Giannakis, M., Nieman, L. T., Boland, G. M., Aguirre, A. J., Anderson, A. C., Rozenblatt-Rosen, O., Regev, A., Hacohen, N., "Spatially organized multicellular immune hubs in human colorectal cancer." In: *Cell* 184 (18 Aug. 28, 2021). DOI: 10.1016/j.cell.2021.08.003.

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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.

Nayar, U., Cohen, O., Kapstad, C., **Cuoco, M. S.**, Waks, A. G., Wander, S. A., Painter, C., Freeman, S., Persky, N. S., Marini, L., Helvie, K., Oliver, N., Rozenblatt-Rosen, O., Ma, C. X., Regev, A., Winer, E. P., Lin, N. U., Wagle, N., "Acquired HER2 mutations in ER+ metastatic breast cancer confer resistance to estrogen receptor-directed therapies." In: *Nature genetics* 51 (2 Dec. 12, 2018). DOI: 10.1038/s41588-018-0287-5.

Wallrapp, A., Riesenfeld, S. J., Burkett, P. R., Abdulnour, R.-E. E., Nyman, J., Dionne, D., Hofree, M., **Cuoco, M. S.**, Rodman, C., Farouq, D., Haas, B. J., Tickle, T. L., Trombetta, J. J., Baral, P., Klose, C. S. N., Mahlakõiv, T., Artis, D., Rozenblatt-Rosen, O., Chiu, I. M., Levy, B. D., Kowalczyk, M. S., Regev, A., Kuchroo, V. K., "The neuropeptide NMU amplifies ILC2-driven allergic lung inflammation." In: *Nature* 549 (7672 Sept. 14, 2017). DOI: 10.1038/nature24029.

Pope, W. H., Bowman, C. A., Russell, D. A., Jacobs-Sera, D., Asai, D. J., Cresawn, S. G., Jacobs, W. R., Hendrix, R. W., Lawrence, J. G., Hatfull, G. F., "Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity." In: *eLife* 4 (Apr. 29, 2015). DOI: 10.7554/eLife.06416.

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 — Fall 2021, Fall 2022
Bioinformatics and Systems Biology, UCSD — La Jolla, California

Teaching assistant — Spring 2015
Department of Biology, Trinity College — Hartford, Connecticut
BIOL 224: Genetics

Tutor — 2014-2016
Department of Biology, Trinity College — Hartford, Connecticut
BIOL 182: Evolution of Life
BIOL 183: Cellular Basis of Life
BIOL 224: Genetics

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) — La Jolla, California
Mentor — 2021 - Present

Graduate Bioinformatics Council (GBIC) — La Jolla, California
Director of Onboarding — 2021 - Present
Symposium Organizer — 2022

SciChats@Salk Education Outreach — La Jolla, California
Volunteer - High Tech High Mesa — Fall 2021
Volunteer - La Jolla High School — Fall 2021

Skills

Programming
Proficient in: R, LaTeX, Bash.
Familiar with: Python, Google Cloud Platform.