Updated September 18, 2022

2013

Michael Sellers Cuoco

PhD Student, Bioinformatics and Systems Biology

✓ mcuoco@ucsd.edu **J** (978) 505-0993 Salk Institute ◆ La Jolla, California **D** 0000-0003-2163-5120 mikecuoco **y** cuoco_michael in michaelcuoco

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)

2017 Spot Award

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.
- Hwang, W. L., Jagadeesh, K. A., Guo, J. A., Hoffman, H. I., Yadollahpour, P., Reeves, J. W., Mohan, R., Drokhlyansky, E., Wittenberghe, N. V., Ashenberg, O., Farhi, S. L., Schapiro, D., Divakar, P., Miller, E., Zollinger, D. R., Eng, G., Schenkel, J. M., Su, J., Shiau, C., Yu, P., Freed-Pastor, W. A., Abbondanza, D., Mehta, A., Gould, J., Lambden, C., Porter, C. B. M., Tsankov, A., Dionne, D., Waldman, J., Cuoco, M. S., Nguyen, L., Delorey, T., Phillips, D., Barth, J. L., Kem, M., Rodrigues, C., Ciprani, D., Roldan, J., Zelga, P., Jorgji, V., Chen, J. H., Ely, Z., Zhao, D., Fuhrman, K., Fropf, R., Beechem, J. M., Loeffler, J. S., Ryan, D. P., Weekes, C. D., Ferrone, C. R., Qadan, M., Aryee, M. J., Jain, R. K., Neuberg, D. S., Wo, J. Y., Hong, T. S., Xavier, R., Aguirre, A. J., Rozenblatt-Rosen, O., Mino-Kenudson, M., Castillo, C. F.-D., Liss, A. S., Ting, D. T., Jacks, T., Regev, A., "Single-nucleus and spatial transcriptome profiling of pancreatic cancer identifies multicellular dynamics associated with neoadjuvant treatment." In: Nature genetics 54 (8 July 29, 2022). DOI: 10.1038/s41588-022-01134-8.
- 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.
- Frangieh, C. J., Melms, J. C., Thakore, P. I., Geiger-Schuller, K. R., Ho, P., Luoma, A. M., Cleary, B., Jerby-Arnon, L., Malu, S., Cuoco, M. S., Zhao, M., Ager, C. R., Rogava, M., Hovey, L., Rotem, A., Bernatchez, C., Wucherpfennig, K. W., Johnson, B. E., Rozenblatt-Rosen, O., Schadendorf, D., Regev, A., Izar, B., "Multimodal pooled Perturb-CITE-seq screens in patient models define mechanisms of cancer immune evasion." In: *Nature genetics* 53 (3 Mar. 2021). DOI: 10.1038/s41588-021-00779-1.
- 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.
- Muus, C., Luecken, M. D., Eraslan, G., Sikkema, L., Waghray, A., Heimberg, G., Kobayashi, Y., Vaishnav, E. D., Subramanian, A., Smillie, C., Jagadeesh, K. A., Duong, E. T., Fiskin, E., Triglia, E. T., Ansari, M., Cai, P., Lin, B., Buchanan, J., Chen, S., Shu, J., Haber, A. L., Chung, H., Montoro, D. T., Adams, T., Aliee, H., Allon, S. J., Andrusivova, Z., Angelidis, I., Ashenberg, O., Bassler, K., Bécavin, C., Benhar, I., Bergenstråhle, J., Bergenstråhle, L., Bolt, L., Braun, E., Bui, L. T., Callori, S., Chaffin, M., Chichelnitskiy, E., Chiou, J., Conlon, T. M., Cuoco, M. S., Cuomo, A. S. E., Deprez, M., Duclos, G., Fine, D., Fischer, D. S., Ghazanfar, S., Gillich, A., Giotti, B., Gould, J., Guo, M., Gutierrez, A. J., Habermann, A. C., Harvey, T., He, P., Hou, X., Hu, L., Hu, Y., Jaiswal, A., Ji, L., Jiang, P., Kapellos, T. S., Kuo, C. S., Larsson, L., Leney-Greene, M. A., Lim, K., Litviňuková, M., Ludwig, L. S., Lukassen, S., Luo, W., Maatz, H., Madissoon, E., Mamanova, L., Manakongtreecheep, K., Leroy, S., Mayr, C. H., Mbano, I. M., McAdams, A. M., Nabhan, A. N., Nyquist, S. K., Penland, L., Poirion, O. B., Poli, S., Qi, C., Queen, R., Reichart, D., Rosas, I., Schupp, J. C., Shea, C. V., Shi, X., Sinha, R., Sit, R. V., Slowikowski, K., Slyper, M., Smith, N. P., Sountoulidis, A., Strunz, M., Sullivan, T. B., Sun, D., Talavera-López, C., Tan, P., Tantivit, J., Travaglini, K. J., Tucker, N. R., Vernon, K. A., Wadsworth, M. H., Waldman, J., Wang, X., Xu, K., Yan, W., Zhao, W., Ziegler, C. G. K., "Single-cell meta-analysis of SARS-CoV-2 entry genes across tissues and demographics." In: Nature medicine 27 (3 Mar. 2021). DOI: 10.1038/s41591-020-01227-z.
- 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.
- 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.
- Schenkel, J. M., Herbst, R. H., Canner, D., Li, A., Hillman, M., Shanahan, S.-L., Gibbons, G., Smith, O. C., Kim, J. Y., Westcott, P., Hwang, W. L., Freed-Pastor, W. A., Eng, G., Cuoco, M. S., Rogers, P., Park, J. K., Burger, M. L., Rozenblatt-Rosen, O., Cong, L., Pauken, K. E., Regev, A., Jacks, T., "Conventional type I dendritic cells maintain a reservoir of proliferative tumor-antigen specific TCF-1+ CD8+ T cells in tumor-draining lymph nodes." In: Immunity 54 (10 Sept. 18, 2021). DOI: 10.1016/j.immuni.2021.08.026.
- Drokhlyansky, E., Smillie, C. S., Wittenberghe, N. V., Ericsson, M., Griffin, G. K., Eraslan, G., Dionne, D., Cuoco, M. S., Goder-Reiser, M. N., Sharova, T., Kuksenko, O., Aguirre, A. J., Boland, G. M., Graham, D., Rozenblatt-Rosen, O., Xavier, R. J., Regev, A., "The Human and Mouse Enteric Nervous System at Single-Cell Resolution." In: Cell 182 (6 Sept. 2020). DOI: 10.1016/j.cell.2020.08.003.
- 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.
- Kinker, G. S., Greenwald, A. C., Tal, R., Orlova, Z., Cuoco, M. S., McFarland, J. M., Warren, A., Rodman, C., Roth, J. A., Bender, S. A., Kumar, B., Rocco, J. W., Fernandes, P. A. C. M., Mader, C. C., Keren-Shaul, H., Plotnikov, A., Barr, H., Tsherniak, A., Rozenblatt-Rosen, O., Krizhanovsky, V., Puram, S. V., Regev, A., Tirosh, I., "Pan-cancer single-cell RNA-seq identifies recurring programs of cellular heterogeneity." In: Nature genetics 52 (11 Nov. 2020). DOI: 10.1038/s41588-020-00726-6.
- Mao, P., Cohen, O., Kowalski, K. J., Kusiel, J. G., Buendia-Buendia, J. E., Cuoco, M. S., Exman, P., Wander, S. A., Waks, A. G., Nayar, U., Chung, J., Freeman, S., Rozenblatt-Rosen, O., Miller, V. A., Piccioni, F., Root, D. E., Regev, A., Winer, E. P., Lin, N. U., Wagle, N., "Acquired FGFR and FGF Alterations Confer Resistance to Estrogen Receptor (ER) Targeted Therapy in ER+ Metastatic Breast Cancer." In: Clinical cancer research 26 (22 July 30, 2020). DOI: 10.1158/1078-0432.CCR-19-3958.
- 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.
- Jerby-Arnon, L., Shah, P., Cuoco, M. S., Rodman, C., Su, M.-J., Melms, J. C., Leeson, R., Kanodia, A., Mei, S., Lin, J.-R., Wang, S., Rabasha, B., Liu, D., Zhang, G., Margolais, C., Ashenberg, O., Ott, P. A., Buchbinder, E. I., Haq, R., Hodi, F. S., Boland, G. M., Sullivan, R. J., Frederick, D. T., Miao, B., Moll, T., Flaherty, K. T., Herlyn, M., Jenkins, R. W., Thummalapalli, R., Kowalczyk, M. S., Cañadas, I., Schilling, B., Cartwright, A. N. R., Luoma, A. M., Malu, S., Hwu, P., Bernatchez, C., Forget, M.-A., Barbie, D. A., Shalek, A. K., Tirosh, I., Sorger, P. K., Wucherpfennig, K., Allen, E. M. V., Schadendorf, D., Johnson, 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.

Research: Preprint

- Boyle, E. A., Goldberg, G., Schmok, J. C., Burgado, J., Izidro Layng, F., Grunwald, H. A., Balotin, K. M., Cuoco, M. S., Chang, K.-C., Ecklu-Mensah, G., Arakaki, A. K. S., Ahmed, N., Garcia Arceo, X., Jagannatha, P., Pekar, J., Iyer, M., Alliance, D., Yeo, G. W., "Junior scientists spotlight social bonds in seminars for diversity, equity, and inclusion in STEM". In: BioRxiv (2022). DOI: 10.1101/2021.12.05.471284.
- Eraslan, G., Drokhlyansky, E., Anand, S., Subramanian, A., Fiskin, E., Slyper, M., Wang, J., Van Wittenberghe, N., Rouhana, J. M., Waldman, J., Ashenberg, O., Dionne, D., Win, T. S., Cuoco, M. S., Kuksenko, O., Branton, P. A., Marshall, J. L., Greka, A., Getz, G., Segre, A. V., Aguet, F., Rozenblatt-Rosen, O., Ardlie, K. G., Regev, A., "Single-nucleus cross-tissue molecular reference maps to decipher disease gene function". In: BioRxiv (2021). DOI: 10.1101/2021.07.19.452954.
- Pelka, K., Hofree, M., Chen, J., 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., 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., J, "Multicellular immune hubs and their organization in MMRd and MMRp colorectal cancer". In: BioRxiv (2021). DOI: 10.1101/2021.01.30.426796.
- Subramanian, A., Vernon, K., Zhou, Y., Marshall, J., Alimova, M., Zhang, F., Slyper, M., Waldman, J., Montesinos, M., Dionne, D., Nguyen, L., Cuoco, M. S., Dubinsky, D., Purnell, J., Keller, K., Turner, S. H.,

- Grinkevich, E., Ghoshal, A., Weins, A., Villani, A.-C., Chang, S., Rosenblatt-Rosen, O., Shaw, J. L., Regev, A., Greka, A., "Obesity-instructed TREM2high macrophages identified by comparative analysis of diabetic mouse and human kidney at single cell resolution". In: *BioRxiv* (2021). DOI: 10.1101/2021.05.30.446342.
- Frangieh, C. J., Melms, J. C., Thakore, P. I., Geiger-Schuller, K. R., Ho, P., Luoma, A. M., Cleary, B. R., Malu, S., Cuoco, M. S., Zhao, M., Rogava, M., Hovey, L., Rotem, A., Bernatchez, C., Wucherpfennig, K. W., Johnson, B. E., Rozenblatt-Rosen, O., Schadendorf, D., Regev, A., Izar, B., "Multi-modal pooled Perturb-CITE-Seq screens in patient models define novel mechanisms of cancer immune evasion". In: BioRxiv (2020). DOI: 10.1101/2020.09.01.267211.
- He, M. X., Cuoco, M. S., Crowdis, J., Bosma-Moody, A., Zhang, Z., Bi, K., Kanodia, A., Su, M.-J., Rodman, C., DelloStritto, L., Shah, P., Burke, K. P., Izar, B., Bakouny, Z., Tewari, A. K., Liu, D., Camp, S. Y., Vokes, N. I., Park, J., Vigneau, S., Fong, L., Rozenblatt-Rosen, O., Regev, A., Rotem, A., Taplin, M.-E., Van Allen, E. M., "Transcriptional mediators of treatment resistance in lethal prostate cancer". In: BioRxiv (2020). DOI: 10.1101/2020.03.19.998450.
- Hwang, W. L., Jagadeesh, K. A., Guo, J. A., Hoffman, H. I., Yadollahpour, P., Mohan, R., Drokhlyansky, E., Van Wittenberghe, N., Ashenberg, O., Farhi, S., Schapiro, D., Reeves, J. W., Zollinger, D. R., Eng, G., Schenkel, J. M., Freed-Pastor, W. A., Rodrigues, C., Gould, J., Lambden, C., Porter, C., Tsankov, A., Dionne, D., Abbondanza, D., Waldman, J., Cuoco, M. S., Nguyen, L., Delorey, T., Phillips, D., Ciprani, D., Kern, M., Mehta, A., Fuhrman, K., Fropf, R., Beechem, J. M., Loeffler, J. S., Ryan, D. P., Weekes, C. D., Ting, D. T., Ferrone, C. R., Wo, J. Y., Hong, T. S., Aguirre, A. J., Rozen, "Single-nucleus and spatial transcriptomics of archival pancreatic cancer reveals multi-compartment reprogramming after neoadjuvant treatment". In: BioRxiv (2020). DOI: 10.1101/2020.08.25.267336.
- Muus, C., Luecken, M. D., Eraslan, G., Waghray, A., Heimberg, G., Sikkema, L., Kobayashi, Y., Vaishnav, E. D., Subramanian, A., Smillie, C., Jagadeesh, K., Duong, E. T., Fiskin, E., Torlai Triglia, E., Becavin, C., Ansari, M., Cai, P., Lin, B., Buchanan, J., Chen, S., Shu, J., Haber, A. L., Chung, H., Montoro, D. T., Adams, T., Aliee, H., Allon, S. J., Andrusivova, Z., Angelidis, I., Ashenberg, O., Bassler, K., Becavin, C., Benhar, I., Bergenstrahle, J., Bergenstrahle, L., Bolt, L., Braun, E., Bui, L. T., Chaffin, M., Chichelnitskiy, E., Chiou, J., Conlon, T. M., Cuoco, M. S., Deprez, M., Fisc, "Integrated analyses of single-cell atlases reveal age, gender, and smoking status associations with cell type-specific expression of mediators of SARS-CoV-2 viral entry and highlights inflammatory programs in putative target cells". In: BioRxiv (2020). DOI: 10.1101/2020.04.19.049254.
- Oren, Y., Tsabar, M., Cabanos, H. F., **Cuoco, M. S.**, Zaganjor, E., Thakore, P. I., Tabaka, M., Fulco, C. P., Hurvitz, S. A., Slamon, D. J., Lahav, G., Hata, A., Brugge, J. S., Regev, A., "Cycling cancer persister cells arise from lineages with distinct transcriptional and metabolic programs". In: *BioRxiv* (2020). DOI: 10.1101/2020.06.05.136358.
- Subramanian, A., Vernon, K., Slyper, M., Waldman, J., Luecken, M. D., Gosik, K., Dubinsky, D., **Cuoco, M. S.**, Keller, K., Purnell, J., Nguyen, L., Dionne, D., Rozenblatt-Rosen, O., Weins, A., Network, H. C. A. L. B., Regev, A., Greka, A., "RAAS blockade, kidney disease, and expression of ACE2, the entry receptor for SARS-CoV-2, in kidney epithelial and endothelial cells". In: *BioRxiv* (2020). DOI: 10.1101/2020.06.23.167098.
- Drokhlyansky, E., Smillie, C. S., Van Wittenberghe, N., Ericsson, M., Griffin, G. K., Dionne, D., **Cuoco, M. S.**, Goder-Reiser, M. N., Sharova, T., Aguirre, A. J., Boland, G. M., Graham, D., Rozenblatt-Rosen, O., Xavier, R. J., Regev, A., "The enteric nervous system of the human and mouse colon at a single-cell resolution". In: *BioRxiv* (2019). DOI: 10.1101/746743.
- Jerby, L., Neftel, C., Shore, M. E., McBride, M. J., Haas, B., Izar, B., Weissman, H. R., 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., Georgescu, C., Cohen, O., Buendia-Buendia, J. E., Cuoco, M. S., Labes, D., Zollinger, D. R., Beechem, J. M., Nielsen, P., Chebib, I., Cote, G., Choy, E., Letovanec, I., Cherix, S., Wagle, N., Sorger, P. K., Haynes, A. B., Mullen, J. T., Stamenkovic, I., Rivera, M. N., Kadoch, C., Rozenblatt-Rosen, O., Suva, M. L., Riggi, N., Regev, A., "Opposing immune and genetic forces shape oncogenic programs in synovial sarcoma". In: BioRxiv (2019). DOI: 10.1101/724302.

- Kinker, G. S., Greenwald, A. C., Tal, R., Orlova, Z., Cuoco, M. S., McFarland, J. M., Warren, A., Rodman, C., Roth, J. A., Bender, S. A., Kumar, B., Rocco, J. W., Fernandes, P. A., Mader, C. C., Keren-Shaul, H., Plotnikov, A., Barr, H., Tsherniak, A., Rozenblatt-Rosen, O., Krizhanovsky, V., Puram, S. V., Regev, A., Tirosh, I., "Pan-cancer single cell RNA-seq uncovers recurring programs of cellular heterogeneity". In: BioRxiv (2019). DOI: 10.1101/807552.
- 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. Q., Rozenblatt-Rosen, O., Cong, L., Birnbaum, M., Regev, A., Jacks, T., "Longitudinal single cell profiling of regulatory T cells identifies IL-33 as a driver of tumor immunosuppression". In: BioRxiv (2019). DOI: 10.1101/512905.
- Mao, P., Cohen, O., Kowalski, K. J., Kusiel, J. G., Buendia-Buendia, J. E., Cuoco, M. S., Exman, P., Wander, S. A., Waks, A. G., Nayar, U., Chung, J., Freeman, S., Rozenblatt-Rosen, O., Miller, V. A., Federica Piccioni, F., Root, D. E., Regev, A., Winer, E. P., Lin, N. U., Wagle, N., "Acquired FGFR and FGF alterations confer resistance to estrogen receptor (ER) targeted therapy in ER+ metastatic breast cancer". In: BioRxiv (2019). DOI: 10.1101/605436.

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

2022

SciChats@Salk Education OutreachLa Jolla, CaliforniaVolunteer - High Tech High MesaFall 2021Volunteer - La Jolla High SchoolFall 2021

Skills **Programming**

Proficient in: R, LaTeX, Bash.

Symposium Organizer

Familiar with: Python, Google Cloud Platform.