



Christopher Swart McGinnis

Postdoctoral Scholar, Pathology

 NIH Biosketch available Online

 Curriculum Vitae available Online

Bio

HONORS AND AWARDS

- K99/R00 Pathway to Independence Award, National Cancer Institute (2025-2030)
- Early Career Investigator Award, METAVivor (2025-2027)
- Parker Scholar, Parker Institute for Cancer Immunotherapy (2023-2025)
- Irvington Postdoctoral Fellowship, Cancer Research Institute (2022-2025)
- Ruth L. Kirschstein NRSA for Individual Predoctoral Fellows (F31) Award, National Cancer Institute (2020-2021)
- ARCS Foundation Scholar, ARCS (2019-2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Early Career Leadership Council Member, Metastasis Research Society (2024 - present)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California San Francisco (2021)
- PhD, University of California, San Francisco , Biochemistry and Molecular Biology (2021)
- BA, Wesleyan University , Biology; Science in Society; Molecular Biology and Biochemistry (2014)

STANFORD ADVISORS

- Ansuman Satpathy, Postdoctoral Faculty Sponsor

PATENTS

- Zev Gartner, David Patterson, Eric Chow, Christopher McGinnis, Robert Weber. "United States Patent PCT/US2019/040898 Lipid-modified oligonucleotides and methods of using the same", The Regents of the University of California, Sep 1, 2020

LINKS

- Satpathy Lab: <https://satpathylab.com/>
- Github: <https://github.com/chris-mcginnis-ucsf>
- LinkedIn: <https://www.linkedin.com/in/chris-mcginnis-66877296/>

Research & Scholarship

LAB AFFILIATIONS

- Ansuman Satpathy (10/26/2021)

Publications

PUBLICATIONS

- **Translation dysregulation in cancer as a source for targetable antigens.** *Cancer cell*
Weller, C., Bartok, O., McGinnis, C. S., Palashati, H., Chang, T. G., Malko, D., Shmueli, M. D., Nagao, A., Hayoun, D., Murayama, A., Sakaguchi, Y., Poulis, P., Khatib, et al
2025
- **The temporal progression of lung immune remodeling during breast cancer metastasis.** *Cancer cell*
McGinnis, C. S., Miao, Z., Superville, D., Yao, W., Goga, A., Reticker-Flynn, N. E., Winkler, J., Satpathy, A. T.
2024
- **MULTI-seq: sample multiplexing for single-cell RNA sequencing using lipid-tagged indices** *NATURE METHODS*
McGinnis, C. S., Patterson, D. M., Winkler, J., Conrad, D. N., Hein, M. Y., Srivastava, V., Hu, J. L., Murrow, L. M., Weissman, J. S., Werb, Z., Chow, E. D., Gartner, Z. J.
2019; 16 (7): 619-+
- **DoubletFinder: Doublet Detection in Single-Cell RNA Sequencing Data Using Artificial Nearest Neighbors** *CELL SYSTEMS*
McGinnis, C. S., Murrow, L. M., Gartner, Z. J.
2019; 8 (4): 329-+
- **Mapping enhancer-gene regulatory interactions from single-cell data.** *bioRxiv : the preprint server for biology*
Sheth, M. U., Qiu, W., Rosa Ma, X., Gschwind, A. R., Jagoda, E., Tan, A. S., Einarsson, H., Gorissen, B. L., Dubocanin, D., McGinnis, C. S., Amgalan, D., Satpathy, A. T., Jones, et al
2024
- **Single-cell analysis of breast cancer metastasis reveals epithelial-mesenchymal plasticity signatures associated with poor outcomes.** *The Journal of clinical investigation*
Winkler, J., Tan, W., Diadhiou, C. M., McGinnis, C. S., Abbasi, A., Hasnain, S., Durney, S., Atamaniuc, E., Superville, D., Awni, L., Lee, J. V., Hinrichs, J. H., Wagner, et al
2024; 134 (17)
- **Patterning and folding of intestinal villi by active mesenchymal dewetting.** *Cell*
Huycke, T. R., Häkkinen, T. J., Miyazaki, H., Srivastava, V., Barriet, E., McGinnis, C. S., Kalantari, A., Cornwall-Scoones, J., Vaka, D., Zhu, Q., Jo, H., Oria, R., Weaver, et al
2024; 187 (12): 3072-3089.e20
- **Epithelial zonation along the mouse and human small intestine defines five discrete metabolic domains.** *Nature cell biology*
Zwick, R. K., Kasperek, P., Palikuqi, B., Viragova, S., Weichselbaum, L., McGinnis, C. S., McKinley, K. L., Rathnayake, A., Vaka, D., Nguyen, V., Trentesaux, C., Reyes, E., Gupta, et al
2024; 26 (2): 250-262
- **Mapping hormone-regulated cell-cell interaction networks in the human breast at single-cell resolution.** *Cell systems*
Murrow, L. M., Weber, R. J., Caruso, J. A., McGinnis, C. S., Phong, K., Gascard, P., Rabadam, G., Borowsky, A. D., Desai, T. A., Thomson, M., Tlsty, T., Gartner, Z. J.
2022; 13 (8): 644-664.e8
- **Lineage tracing reveals the phylodynamics, plasticity, and paths of tumor evolution.** *Cell*
Yang, D., Jones, M. G., Naranjo, S., Rideout, W. M., Min, K. H., Ho, R., Wu, W., Replogle, J. M., Page, J. L., Quinn, J. J., Horns, F., Qiu, X., Chen, et al
2022; 185 (11): 1905-1923.e25
- **Single cell enhancer activity distinguishes GABAergic and cholinergic lineages in embryonic mouse basal ganglia.** *Proceedings of the National Academy of Sciences of the United States of America*
Su-Feher, L., Rubin, A. N., Silberberg, S. N., Catta-Preta, R., Lim, K. J., Ypsilanti, A. R., Zdilar, I., McGinnis, C. S., McKinsey, G. L., Rubino, T. E., Hawrylycz, M. J., Thompson, C., Gartner, et al
2022; 119 (15): e2108760119
- **AMULET: a novel read count-based method for effective multiplet detection from single nucleus ATAC-seq data.** *Genome biology*

Thibodeau, A., Eroglu, A., McGinnis, C. S., Lawlor, N., Nehar-Belaid, D., Kursawe, R., Marches, R., Conrad, D. N., Kuchel, G. A., Gartner, Z. J., Banchereau, J., Stitzel, M. L., Cicek, et al
2021; 22 (1): 252

- **No detectable alloreactive transcriptional responses under standard sample preparation conditions during donor-multiplexed single-cell RNA sequencing of peripheral blood mononuclear cells** *BMC BIOLOGY*

McGinnis, C. S., Siegel, D. A., Xie, G., Hartoularos, G., Stone, M., Ye, C. J., Gartner, Z. J., Roan, N. R., Lee, S. A.

2021; 19 (1): 10

- **Human microglia states are conserved across experimental models and regulate neural stem cell responses in chimeric organoids.** *Cell stem cell*

Popova, G., Soliman, S. S., Kim, C. N., Keefe, M. G., Hennick, K. M., Jain, S., Li, T., Tejera, D., Shin, D., Chhun, B. B., McGinnis, C. S., Speir, M., Gartner, et al

2021

- **ZipSeq: barcoding for real-time mapping of single cell transcriptomes** *NATURE METHODS*

Hu, K. H., Eichorst, J. P., McGinnis, C. S., Patterson, D. M., Chow, E. D., Kersten, K., Jameson, S. C., Gartner, Z. J., Rao, A. A., Krummel, M. F.

2020; 17 (8): 833+

- **Cell population structure prior to bifurcation predicts efficiency of directed differentiation in human induced pluripotent cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Bargaje, R., Trachanaa, K., Shelton, M. N., McGinnis, C. S., Zhou, J. X., Chadick, C., Cook, S., Cavanaugh, C., Huang, S., Hood, L.

2017; 114 (9): 2271-2276