CURRICULUM VITAE

Name: Ahmad N. Nabhan
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Education

Postdoctoral Scholar, 2019 – 2023, Genentech, Department of Physiological Chemistry
Advisors: Vishva Dixit and Joe Arron (Departed to 23andMe in 2021)

PhD, 2013- 2019, Stanford University, Department of Biochemistry
Advisors: Mark Krasnow and Tushar Desai

MS, 2010-2013, San Francisco State University, Department of Biology
Advisors: Diana Chu and Geeta Narlikar

BS, 2006-2010, University of California, Santa Barbara
Major: Pharmacology
Advisor: Osnat Ben-Shahar

First author publications

Nabhan, A.N.#, Webster, J.D., Adams, J., Blazer, L., Everrett, C., Eidenschenk C., Arlantico, A., Brightbill, H.D., Wolters, P.J., Seshagiri, S., Angers, S., Sidhu, S.S., Newton, K., Arron, J.R., Dixit, V.M. # (2023). Targeted alveolar regeneration with Frizzled-specific agonists. ***In Press, Cell.***

Corresponding authors

Travaglini, K.J.*, **Nabhan, A.N.***, Penland, L., Sinha, R., Gillich, A., Sit, R.V., Chang, S., Conley, S.D., Mori, Y., Seita, J., Berry, J.B., Shrager, R.J., Metzger, C.S., Kuo, N., Neff, Weissman I.L., Quake S.R., Krasnow M.A. (2020). A molecular cell atlas of the human lung from single cell RNA sequencing. ***Nature,*** 587(7835), 619-625.

***These authors contributed equally**
800+ Citations
Highlighted: H. Stowers (2020) A map of lung cell types. ***Nat Med*** *27, 21.*

Nabhan, A. N., Brownfield, D. G., Harbury, P. B., Krasnow, M. A., Desai, T. J. (2018). Single-cell Wnt signaling niches maintain stemness of alveolar type 2 cells. ***Science***, 359(6380), 1118-1123.

500+ Citations
Highlighted: B.L. Hogan (2018) Stemming Lung Disease? ***NEJM*** 378, 2439-2440. Recommended: S. Yoshida. and T. Nakagawa (2018) ***F1000prime***.

Co-author Publications

Hansen, S., Zhang, Y., Hwang, S., **Nabhan, A. N.**, Li, W., Fuhrmann, J., Kschonsak, Y., Zhou, L., Nile, A.H., Gao, X., Piskol R., de Sousa e Melo, F., de Sauvage F., and Hannoush R.N. (2022). Directed evolution identifies high-affinity cystine-knot peptide agonists and antagonists of Wnt/β-catenin signaling. ***PNAS***, 119 (46) e2207327119.

Muus, C., Luecken, M. D., Eraslan, G., …**Nabhan A.N.**, …Ziegler C., Human Cell Atlas Lung Biological Network (2021). Single-cell meta-analysis of SARS-CoV-2 entry genes across tissues and demographics. ***Nature Medicine***, 27 (3), 546–559

Tabula Muris Consortium (2020). A single-cell transcriptomic atlas characterizes ageing tissues in the mouse. ***Nature***, 583, 590–595.

Tabula Muris Consortium (2018). Transcriptomic characterization of 20 organs and tissues from mouse at single cell resolution creates a Tabula Muris. ***Nature***, 562, 367–372.

Ben-Shahar, O. M., Szumlinski, K. K., Lominac, K. D., Cohen, A., Gordon, E., Ploense, K. L., DeMartini, J., Bernstein, N., Rudy, N. M., **Nabhan, A. N.**, Sacramento, A., Pagano, K., Carosso, G. A., & Woodward, N. (2012). Extended access to cocaine self-administration results in reduced glutamate function within the medial prefrontal cortex. ***Addiction Biology***, 17, 746-757.

Grants and Awards

2021-2023: **Genentech Postdoctoral Transition award (analogous to the NIH K99 award).** Awarded to one postdoc per year pursuing an academic position. Provides support for the final year at Genentech and transition funds to establish an independent research program.

2014-2017: Recipient of Cellular and Molecular biology training grant

2012-2013: Recipient of CIRM stem cell biology fellowship

2009-2010: Recipient Robert E. McNair undergraduate research fellowship

Mentorship and Service

2023-Present: Mentor- Fatima Fellowship

2020-2021: Genentech Postdoc leadership committee

2015-2017: ADVANCE scholar peer-mentor

2009-2010: Middle East Cultural Center student intern

Preprints

R. Sinha, G. Stanley, G. S. Gulati, C. Ezran, K. J. Travaglini, E. Wei, C. K. F. Chan, **A.N. Nabhan**, T. Su, R. M. Morganti, S. D. Conley, H. Chaib, K. Red-Horse, M. T. Longaker, M.P. Snyder, M. A. Krasnow, I. L. Weissman (2017) Index switching causes “spreading-of-signal” among multiplexed samples in Illumina HiSeq 4000 DNA Sequencing. bioRxiv, in preparation (for Nature Biotechnology).

The Tabula Microcebus Consortium (2021) Tabula Microcebus: A transcriptomic cell atlas of mouse lemur, an emerging primate model organism. bioRxiv.

Skills

Single cell and bulk transcriptomics

Mouse genetics and disease modeling

Tissue culture and organoid assays in lung, gut and kidney

Gene-editing in primary organoid models

References

Mark Krasnow – Krasnow@Stanford.Edu, Professor of Biochemistry, Stanford University.

Tushar Desai – Tdesai@Stanford.Edu, Assoc. Professor of Medicine, Stanford University.

Vishva Dixit – Dixit@gene.com, VP Physiological Chemistry, Genentech.

Joe Arron – JoeArron4@gmail.com, Chief Scientific Officer, 23andMe.