

Stanford



Naomi Genuth

Postdoctoral Scholar, Genetics

Bio

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , BIO-PHD (2022)
- BA, Harvard University , Molecular and Cellular Biology (2014)

STANFORD ADVISORS

- Maria Barna, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Controlling tissue patterning by translational regulation of signaling transcripts through the core translation factor eIF3c.** *Developmental cell*
Fujii, K., Zhulyn, O., Byeon, G. W., Genuth, N. R., Kerr, C. H., Walsh, E. M., Barna, M.
2021; 56 (21): 2928-2937.e9
- **Gene- and Species-Specific Hox mRNA Translation by Ribosome Expansion Segments.** *Molecular cell*
Leppek, K. n., Fujii, K. n., Quade, N. n., Susanto, T. T., Boehringer, D. n., Lenar#, T. n., Xue, S. n., Genuth, N. R., Ban, N. n., Barna, M. n.
2020
- **RPS25 is required for efficient RAN translation of C9orf72 and other neurodegenerative disease-associated nucleotide repeats.** *Nature neuroscience*
Yamada, S. B., Gendron, T. F., Niccoli, T. n., Genuth, N. R., Grosely, R. n., Shi, Y. n., Glaria, I. n., Kramer, N. J., Nakayama, L. n., Fang, S. n., Dinger, T. J., Thoeng, A. n., Rocha, et al
2019
- **The Discovery of Ribosome Heterogeneity and Its Implications for Gene Regulation and Organismal Life.** *Molecular cell*
Genuth, N. R., Barna, M.
2018; 71 (3): 364–74
- **Heterogeneity and specialized functions of translation machinery: from genes to organisms.** *Nature reviews. Genetics*
Genuth, N. R., Barna, M.
2018
- **Heterogeneous Ribosomes Preferentially Translate Distinct Subpools of mRNAs Genome-wide.** *Molecular cell*
Shi, Z. n., Fujii, K. n., Kovary, K. M., Genuth, N. R., Röst, H. L., Teruel, M. N., Barna, M. n.
2017
- **Engineering allostery** *TRENDS IN GENETICS*
Raman, S., Taylor, N., Genuth, N., Fields, S., Church, G. M.
2014; 30 (12): 521-528