



## Heankel Lyons

Postdoctoral Scholar, Genetics

### Bio

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#### HONORS AND AWARDS

- Brain Resilience Scholar, The Knight Initiative for Brain Resilience at Wu Tsai Neuroscience (2026-2028)
- Propel Postdoctoral Scholars Program, Stanford School of Medicine (2025-2027)

#### PROFESSIONAL EDUCATION

- Bachelor of Arts, Wellesley College (2018)
- Doctor of Philosophy, Univ of Texas Southwestern Medical Center (2024)
- Ph.D., UT Southwestern Medical Center , Genetics (2024)

#### STANFORD ADVISORS

- Aaron Gitler, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **KIF5A downregulation in spinal muscular atrophy links axonal regeneration defects with ALS.** *JCI insight*  
Akiyama, T., Zeng, Y., Guo, C., Gautier, O., Koepke, L., Lyons, H., Molotsky, E., Bombosch, J. S., Sianto, O., Ross, J. P., Hoang, P., Zhao, L., Spencer, et al  
2026
- **Sequence-based prediction of condensate composition reveals that specificity can emerge from multivalent interactions among disordered regions.** *bioRxiv : the preprint server for biology*  
Wessén, J., De La Cruz, N., Lyons, H., Chan, H. S., Sabari, B. R.  
2025
- **RNA polymerase II partitioning is a shared feature of diverse oncofusion condensates.** *Cell*  
Lyons, H., Pradhan, P., Prakasam, G., Vashishtha, S., Li, X., Eppert, M., Fornero, C., Tcheuyap, V. T., McGlynn, K., Yu, Z., Raju, D. R., Koduru, P. R., Xing, et al  
2025; 188 (14): 3843-3862.e28
- **Transcription regulation by biomolecular condensates.** *Nature reviews. Molecular cell biology*  
Pei, G., Lyons, H., Li, P., Sabari, B. R.  
2025; 26 (3): 213-236
- **The phenylalanine-and-glycine repeats of NUP98 oncofusions form condensates that selectively partition transcriptional coactivators.** *Molecular cell*  
Ahn, J. H., Guo, Y., Lyons, H., Mackintosh, S. G., Lau, B. K., Edmondson, R. D., Byrum, S. D., Storey, A. J., Tackett, A. J., Cai, L., Sabari, B. R., Wang, G. G.

2025; 85 (4): 708-725.e9

- **Coactivator condensation drives cardiovascular cell lineage specification** *SCIENCE ADVANCES*

Gan, P., Eppert, M., de la Cruz, N., Lyons, H., Shah, A. M., Veettil, R. T., Chen, K., Pradhan, P., Bezprozvannaya, S., Xu, L., Liu, N., Olson, E. N., Sabari, et al

2024; 10 (11): eadk7160

- **Functional partitioning of transcriptional regulators by patterned charge blocks.** *Cell*

Lyons, H., Veettil, R. T., Pradhan, P., Fornero, C., De La Cruz, N., Ito, K., Eppert, M., Roeder, R. G., Sabari, B. R.

2023; 186 (2): 327-345.e28

- **Anterograde transneuronal tracing and genetic control with engineered yellow fever vaccine YFV-17D.** *Nature methods*

Li, E., Guo, J., Oh, S. J., Luo, Y., Oliveros, H. C., Du, W., Arano, R., Kim, Y., Chen, Y. T., Eitson, J., Lin, D. T., Li, Y., Roberts, et al

2021; 18 (12): 1542-1551