

David Li

Ph.D. Student in Bioengineering, admitted Autumn 2023

Publications

PUBLICATIONS

- **Genome modelling and design across all domains of life with Evo 2.** *Nature*
Brixi, G., Durrant, M. G., Ku, J., Naghipourfar, M., Poli, M., Sun, G., Brockman, G., Chang, D., Fanton, A., Gonzalez, G. A., King, S. H., Li, D. B., Merchant, et al
2026
- **Discovery and engineering of the antibody response to a prominent skin commensal.** *Nature*
Bousbaine, D., Bauman, K. D., Chen, Y. E., Lalgudi, P. V., Nguyen, T. T., Swenson, J. M., Yu, V. K., Tsang, E., Conlan, S., Li, D. B., Jbara, A., Zhao, A., Naziripour, et al
2024
- **Sequence modeling and design from molecular to genome scale with Evo.** *Science (New York, N.Y.)*
Nguyen, E., Poli, M., Durrant, M. G., Kang, B., Katrekar, D., Li, D. B., Bartie, L. J., Thomas, A. W., King, S. H., Brixi, G., Sullivan, J., Ng, M. Y., Lewis, et al
2024; 386 (6723): eado9336
- **Phage-triggered reverse transcription assembles a toxic repetitive gene from a noncoding RNA.** *Science (New York, N.Y.)*
Wilkinson, M. E., Li, D., Gao, A., Macrae, R. K., Zhang, F.
2024: eadq3977
- **Disease-specific tau filaments assemble via polymorphic intermediates.** *Nature*
Lovestam, S., Li, D., Wagstaff, J. L., Kotecha, A., Kimanius, D., McLaughlin, S. H., Murzin, A. G., Freund, S. M., Goedert, M., Scheres, S. H.
2024; 625 (7993): 119-125
- **Modularity and diversity of target selectors in Tn7 transposons** *MOLECULAR CELL*
Faure, G., Saito, M., Benler, S., Peng, I., Wolf, Y. I., Strecker, J., Altae-Tran, H., Neumann, E., Li, D., Makarova, K. S., Macrae, R. K., V. Koonin, E., Zhang, et al
2023; 83 (12): 2122-+
- **RNA-activated protein cleavage with a CRISPR-associated endopeptidase** *SCIENCE*
Strecker, J., Demircioglu, F., Li, D., Faure, G., Wilkinson, M. E., Gootenberg, J. S., Abudayyeh, O. O., Nishimasu, H., Macrae, R. K., Zhang, F.
2022; 378 (6622): 874-881
- **A CRISPR-based assay for the study of eukaryotic DNA repair onboard the International Space Station** *PLOS ONE*
Stahl-Rommel, S., Li, D., Sung, M., Li, R., Vijayakumar, A., Atabay, K., Bushkin, G., Castro, C. L., Foley, K. D., Copeland, D., Castro-Wallace, S. L., Saavedra, E., Gleason, et al
2021; 16 (6): e0253403
- **LAMP-Seq enables sensitive, multiplexed COVID-19 diagnostics using molecular barcoding** *NATURE BIOTECHNOLOGY*
Ludwig, K. U., Schmithausen, R. M., Li, D., Jacobs, M. L., Hollstein, R., Blumenstock, K., Liebing, J., Slabicki, M., Ben-Shmuel, A., Israeli, O., Weiss, S., Ebert, T. S., Paran, et al
2021; 39 (12): 1556-+
- **Highly Parallel Profiling of Cas9 Variant Specificity** *MOLECULAR CELL*
Schmid-Burgk, J. L., Gao, L., Li, D., Gardner, Z., Strecker, J., Lash, B., Zhang, F.
2020; 78 (4): 794-+