

Daniel Chang

Ph.D. Student in Genetics, admitted Autumn 2024

Publications

PUBLICATIONS

- **Genome modelling and design across all domains of life with Evo 2.** *Nature*
Brix, 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
- **Long-read metagenomics reveals phage dynamics in the human gut microbiome.** *Nature*
Wirbel, J., Hickey, A. S., Chang, D., Enright, N. J., Dvorak, M., Chanin, R. B., Schmidtke, D. T., Bhatt, A. S.
2025
- **A global genetic interaction map of a human cell reveals conserved principles of genetic networks.** *bioRxiv : the preprint server for biology*
Billmann, M., Costanzo, M., Zhang, X., Hassan, A. Z., Rahman, M., Brown, K. R., Chan, K. S., Tong, A. H., Pons, C., Ward, H. N., Ross, C., van Leeuwen, J., Aregger, et al
2025
- **Gut Microbiome Wellness Index 2 enhances health status prediction from gut microbiome taxonomic profiles.** *Nature communications*
Chang, D., Gupta, V. K., Hur, B., Cobo-López, S., Cunningham, K. Y., Han, N. S., Lee, I., Kronzer, V. L., Teigen, L. M., Karnatovskaia, L. V., Longbrake, E. E., Davis, J. M., Nelson, et al
2024; 15 (1): 7447
- **Evaluating the prebiotic effect of oligosaccharides on gut microbiome wellness using in vitro fecal fermentation.** *NPJ science of food*
Lee, D. H., Seong, H., Chang, D., Gupta, V. K., Kim, J., Cheon, S., Kim, G., Sung, J., Han, N. S.
2023; 7 (1): 18
- **GMWI-webtool: a user-friendly browser application for assessing health through metagenomic gut microbiome profiling.** *Bioinformatics (Oxford, England)*
Chang, D., Gupta, V. K., Hur, B., Cunningham, K. Y., Sung, J.
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- **TaxiBGC: a Taxonomy-Guided Approach for Profiling Experimentally Characterized Microbial Biosynthetic Gene Clusters and Secondary Metabolite Production Potential in Metagenomes.** *mSystems*
Gupta, V. K., Bakshi, U., Chang, D., Lee, A. R., Davis, J. M., Chandrasekaran, S., Jin, Y. S., Freeman, M. F., Sung, J.
2022; 7 (6): e0092522