



Eyal Metzli Raz

Basic Life Research Scientist, Genetics

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

Publications

PUBLICATIONS

- **Deep learning the dynamic regulatory sequence code of cardiac organoid differentiation.** *bioRxiv : the preprint server for biology*
Metzli-Raz, E., Zhao, R., Deshpande, S., Powell, J., Porter, E. G., Zouaghi, Y., Liu, B. B., Kim, S. H., Abdi, I., Evergreen, I., Agarwal, M., Sheth, M. U., Rico, et al
2025
- **Leveraging Single-Nucleus Chromatin Accessibility and Transcriptome Profiling to Define the Regulatory Landscape of Dilated Cardiomyopathy**
Dunkenberger, L., Gilles, C., Belbachir, N., Metzli Raz, E., Limbu, L., Bonham, S., Arthur, J., Dalal, A., Kay, M., Baum, R., Neofytou, E., Ramchandani, R., Ameen, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **MorPhiC Consortium: towards functional characterization of all human genes.** *Nature*
Adli, M., Przybyla, L., Burdett, T., Burrige, P. W., Cacheiro, P., Chang, H. Y., Engreitz, J. M., Gilbert, L. A., Greenleaf, W. J., Hsu, L., Huangfu, D., Hung, L. H., Kundaje, et al
2025; 638 (8050): 351-359
- **Deciphering the impact of genomic variation on function.** *Nature*
2024; 633 (8028): 47-57
- **Histone deacetylase inhibition expands cellular proteostasis repertoires to enhance neuronal stress resilience.** *bioRxiv : the preprint server for biology*
Taylor, C. A., Maor-Nof, M., Metzli-Raz, E., Hidalgo, A., Yee, C., Gitler, A. D., Shen, K.
2024
- **Generation of a dual edited human induced pluripotent stem cell Myl7-GFP reporter line with inducible CRISPRi/dCas9.** *Stem cell research*
Metzli-Raz, E., Bharucha, N., Arthur Ataam, J., Gavidia, A. A., Greenleaf, W. J., Karakikes, I.
2022; 61: 102754
- **Uncovering targeting priority to yeast peroxisomes using an in-cell competition assay.** *Proceedings of the National Academy of Sciences of the United States of America*
Rosenthal, M., Metzli-Raz, E., Bürgi, J., Yifrach, E., Drwesh, L., Fadel, A., Peleg, Y., Rapaport, D., Wilmanns, M., Barkai, N., Schuldiner, M., Zalckvar, E.
2020
- **Gene Transcription as a Limiting Factor in Protein Production and Cell Growth.** *G3 (Bethesda, Md.)*
Metzli-Raz, E., Kafri, M., Yaakov, G., Barkai, N.

2020

- **Principles of Systems Biology, No. 21 CELL SYSTEMS**

Cao, J., Packer, J., Waterston, R., Trapnell, C., Shendure, J., Rajaram, S., Wu, L. F., Altschuler, S. J., Liang, J., O'Brien, L., Eizenberg-Magar, I., Rimer, J., Friedman, et al

2017; 5 (3): 158–60

- **Principles of cellular resource allocation revealed by condition-dependent proteome profiling. *eLife***

Metzl-Raz, E., Kafri, M., Yaakov, G., Soifer, I., Gurvich, Y., Barkai, N.

2017; 6

- **Rethinking cell growth models. *FEMS yeast research***

Kafri, M., Metzl-Raz, E., Jonas, F., Barkai, N.

2016; 16 (7)

- **The Cost of Protein Production. *Cell reports***

Kafri, M., Metzl-Raz, E., Jona, G., Barkai, N.

2016; 14 (1): 22-31

- **miR-142 orchestrates a network of actin cytoskeleton regulators during megakaryopoiesis. *eLife***

Chapnik, E., Rivkin, N., Mildner, A., Beck, G., Pasvolsky, R., Metzl-Raz, E., Birger, Y., Amir, G., Tirosh, I., Porat, Z., Israel, L. L., Lellouche, E., Michaeli, et al

2014; 3: e01964