



Leeat Yankielowicz-Keren

Postdoctoral Research Fellow, Pathology

Bio

BIO

The immune system plays a critical role in modulating cancer progression. However, knowledge of the composition, phenotype, organization, and interactions between immune cells and tumor cells is limited. Leeat applies multiplexed imaging to study the interplay between the tumor and the immune system. She develops computational tools that allow to tease various layers of information from rich multiplexed-imaging data and employ them to infer design principles in tumor-immune interactions.

HONORS AND AWARDS

- Postdoctoral Fellowship, Damon Runyon Cancer Research Foundation (2017-2021)
- Israel's National Award Program for Advancing Women in Science, Weizmann Institute of Science (2016)
- Postdoctoral Fellowship, Rothschild Foundation (2016)
- Postdoctoral Fellowship, Fulbright Foundation (2016)

PROFESSIONAL EDUCATION

- Master of Science, Weizmann Institute Of Science (2010)
- Doctor of Philosophy, Weizmann Institute Of Science (2016)
- Bachelor of Science, Tel-Aviv University (2008)

STANFORD ADVISORS

- Robert Angelo, Postdoctoral Faculty Sponsor

LINKS

- Lab website: <https://www.angelolab.com/>

Publications

PUBLICATIONS

- **Comprehensive characterization of human decidual immune cells involvement in spiral artery remodelling**
Greenbaum, S., Rizzuto, G., Bosse, M., Keren, L., Kowk, S., van de Rijn, M., Bendall, S., Angelo, M.
MOSBY-ELSEVIER.2019: S27–S28
- **A Structured Tumor-Immune Microenvironment in Triple Negative Breast Cancer Revealed by Multiplexed Ion Beam Imaging** *Cell*
Keren, L., Bosse, M., Marquez, D., Angoshtari, R., Jain, S., Varma, S., Yang, S., Kurian, A., Van Valen, D., West, R., Bendall, S., Angelo, M.
2018; 174 (6): 1373-87.e19

- **Massively Parallel Interrogation of the Effects of Gene Expression Levels on Fitness** *CELL*
Keren, L., Hausser, J., Lotan-Pompan, M., Slutskin, I., Alisar, H., Kaminski, S., Weinberger, A., Alon, U., Milo, R., Segal, E.
2016; 166 (5): 1282–+
- **Noise in gene expression is coupled to growth rate** *GENOME RESEARCH*
Keren, L., van Dijk, D., Weingarten-Gabbay, S., Davidi, D., Jona, G., Weinberger, A., Milo, R., Segal, E.
2015; 25 (12): 1893–1902
- **Probing the effect of promoters on noise in gene expression using thousands of designed sequences** *GENOME RESEARCH*
Sharon, E., van Dijk, D., Kalma, Y., Keren, L., Manor, O., Yakhini, Z., Segal, E.
2014; 24 (10): 1698–1706
- **Promoters maintain their relative activity levels under different growth conditions** *MOLECULAR SYSTEMS BIOLOGY*
Keren, L., Zackay, O., Lotan-Pompan, M., Barenholz, U., Dekel, E., Sasson, V., Aidelberg, G., Bren, A., Zeevi, D., Weinberger, A., Alon, U., Milo, R., Segal, et al
2013; 9: 701
- **Sequence features of yeast and human core promoters that are predictive of maximal promoter activity** *NUCLEIC ACIDS RESEARCH*
Lubliner, S., Keren, L., Segal, E.
2013; 41 (11): 5569–81
- **Manipulating nucleosome disfavoring sequences allows fine-tune regulation of gene expression in yeast** *NATURE GENETICS*
Raveh-Sadka, T., Levo, M., Shabi, U., Shany, B., Keren, L., Lotan-Pompan, M., Zeevi, D., Sharon, E., Weinberger, A., Segal, E.
2012; 44 (7): 743-U163
- **Inferring gene regulatory logic from high-throughput measurements of thousands of systematically designed promoters** *NATURE BIOTECHNOLOGY*
Sharon, E., Kalma, Y., Sharp, A., Raveh-Sadka, T., Levo, M., Zeevi, D., Keren, L., Yakhini, Z., Weinberger, A., Segal, E.
2012; 30 (6): 521–?
- **Compensation for differences in gene copy number among yeast ribosomal proteins is encoded within their promoters** *GENOME RESEARCH*
Zeevi, D., Sharon, E., Lotan-Pompan, M., Lubling, Y., Shipony, Z., Raveh-Sadka, T., Keren, L., Levo, M., Weinberger, A., Segal, E.
2011; 21 (12): 2114–2128
- **Self-targeting by CRISPR: gene regulation or autoimmunity?** *TRENDS IN GENETICS*
Stern, A., Keren, L., Wurtzel, O., Amitai, G., Sorek, R.
2010; 26 (8): 335–40