**You are cordially invited to a** **Computational Genomics Seminar**

**Prof. Eytan Ruppin**

Chief, Cancer Data Science Lab, NCI, NIH

*"A tale of four tales and more"*

Wednesday August 4 at 11:15

Merbaum Hall, Medicine Faculty, Tel Aviv University\*

**Abstract:** This presentation will cover a few ongoing research projects in my lab, including (1) a new approach for Single cell based precision oncology, (2) research aimed at a better understanding of the evolution of a frequent chromosomal co-aneuploidy event in brain tumors,  (3) uncovering determinants of sex bias in cancer risk and autoimmune disorders and finally, (4) the prediction and testing of new anti COVID-19 drug targets. As time permits, I will provide a brief overview of new tools we recently developed, for deconvolving tumor expression (CODEFACS, <https://www.biorxiv.org/content/10.1101/2021.01.20.427515v2>), for detecting cell type-specific bacteria (CSI-MIcrobes, <https://www.biorxiv.org/content/10.1101/2020.05.14.096230v2>) and for optimizing receptor mediated treatment combinations (MadHitter, <https://www.biorxiv.org/content/10.1101/2020.01.28.923532v3>).

Host: [Prof. Ron Shamir](mailto:rshamir@tau.ac.il), School of Computer Science, TAU

\*Participants are required to follow the pandemic guidelines and in particular to wear masks.