Edmond J. Safra Center Biomedical Informatics Entrepreneurs Salon

In partnership with Harvard's Biomedical Informatics Entrepreneurs Salon

A bi-monthly forum to promote entrepreneurship at the convergence of biology, medicine, and computing. In addition to hearing industry leaders speak, participants will have the chance to look for collaborators, employees, advisors, customers, or investors.

TUESDAY APRIL 12, 2022

JAGLOM HALL, SENATE BUILDING, TEL AVIV UNIVERSITY

16:00-16:15 GATHERING; 16:15-16:45 TALK; 16:45-17:15 Q&A; 17:15-18:00 RECEPTION

Computational Design of Smart Antibodies

Speaker:

Dr. Tzvika Hartman

SVP Computation, Biolojic Design

Proteins are dynamic machines that can sense changes in the environment and respond to them. They can also activate other proteins or bind different targets under different conditions. However, currently, therapeutic proteins do not utilize the full potential of proteins. Biolojic Design's computational platform designs dynamic antibodies that are programmed to respond to changes in the environment and to act differently under different biological conditions. This leads to better and safer therapies. The first such computationally designed antibody has been cleared for a phase 1/2 and will enter the clinic soon. The talk will include a brief biological background and introduction to novel smart antibodies. A description of Biolojic's design process, which involves both computational and wet lab work. Finally, the major part of the talk will be dedicated to the computational aspects, which aim to compute and predict antibody properties based on both public and proprietary data.

ENTRANCE IS FREE BUT REGISTRATION IS REQUIRED
PLEASE REGISTER HERE
PARKING THROUGH GATE 14, TEL AVIV UNIVERSITY, CODE NO. 1202741

ORGANIZING COMMITTEE: PROF NOAM SHOMRON (CHAIR, TAU), PROF RON SHAMIR (TAU), GUY SHAPIRA (TAU), GILIT ZOHAR-OREN (TAU)

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