

TAU BioSoft Day #2

July 8, 2021 Webb Building, Tel Aviv University

09:00–09:30	Gathering
09:30–10:00	Efi Efrati (Weizmann Institute of Science)
	Cumulative geometric frustration and the intrinsic approach in physical assemblies
10:00-10:10	Deborah Schwarcz (Bar-Ilan University) Thermal and topological noise impact on self-assemble processes
10:10–10:40	Tom Shemesh (Technion) A role for the endoplasmic reticulum in the cellular distribution of microtubules
10:40–10:50	Shiran Ziv Sharabani (Tel-Aviv University) Messy to ordered: The role of fiber diameter in determining the shape morphing behavior of 2D networks constructed of mesoscale responsive fibers
10:50–11:20	Coffee
11:20–11:50	Yitzhak Rabin (Bar-Ilan University) Aggregation of intrinsically disordered proteins
11:50–12:00	Raj Kumar Sadhu (Weizmann Institute of Science) Modelling cellular spreading and emergence of motility in the presence of curved membrane proteins and active cytoskeleton forces
12:00–12:30	Bat-El Pinchasik (Tel-Aviv University) How can interfacial phenomena in nature inspire smaller robots?
12:30–13:45	Lunch
13:45–14:15	Ady Vaknin (The Hebrew University of Jerusalem) Long-term positional dynamics of chemoreceptor clusters
14:15–14:25	Omer Granek (Technion) The anomalous transport of tracers in active baths
14:25–14:55	Oleg Krichevsky (Ben-Gurion University of the Negev) <i>Probing DNA structure with optical super-resolution: from plasmids to bacterial chromosome</i>
14:55–15:30	Coffee
15:30–16:00	Hillel Aharoni (Weizmann Institute of Science) Smectic description of wrinkling patterns
16:00–16:10	Bin Zheng (Tel-Aviv University) Enhanced electro-actuation in dielectric elastomers: the non-linear effect of free ions
16:10–16:40	Shelly Tzlil (Technion) Elastic mediated interactions between cells