## Tel Aviv University (TAU) Ludwig-Maximilians-Universität München (LMU) Workshop on Biophysics

May 9-10, 2018 - Trubowicz Law Building, Room 206, Tel Aviv University

## Wednesday, May 9:

8:30-9:00	Registration
9:00-9:30	Yasmine Meroz (TAU), "Uncovering organismal memory phenomena: from cellular chemotaxis to plant tropisms"
9:30-10:00	Erwin Frey (LMU), "Rethinking pattern formation in reaction-diffusion systems"
10:00-10:30	Roy Beck (TAU), "From kB to kB: Universal and efficient entropy estimation using a compression algorithm"
10:30-11:00	Coffee
11:00-11:30	Joachim Rädler (LMU), "Structured surfaces for gene expression and cell migration single cell studies"
11:30-12:00	Ayelet Lesman (TAU), "Interaction of contractile cells with the extracellular fibrous matrix"
12:00-13:00	Lunch
13:00-15:00	Lab Tours & Discussions
15:00-15:30	Stefan Zahler (LMU), "Artificial angiogenesis"
15:30-16:00	Shlomi Reuveni (TAU), "Sculpted by self-replication"
16:00-16:30	Coffee
16:30-17:00	Claudia Veigel (LMU), "Regulation and membrane interactions of molecular myosin motors"
17:00-17:30	Michael Kozlov (TAU), "Modeling formation of caveolar super-structures"

## Thursday, May 10:

8:30-9:00	Registration
9:00-9:30	Yoav Lahini (TAU), "Fast, label free optical nanoscopy: towards measurements of single-virus dynamics"
9:30-10:00	Esther Zanin (LMU), "An aster-based signal patterns the cortex during cytokinesis"
10:00-10:30	David Sprinzak (TAU), "Design principles of cell-cell signaling systems"
10:30-11:00	Coffee
11:00-11:30	Hermann Gaub (LMU), "Bacterial adhesion by single molecule force spectroscopy in vitro and in silico"
11:30-12:00	Roey Amir (TAU), "Designing polymeric amphiphiles with high molecular precision"
12:00-13:00	Lunch
13:00-14:30	Poster Session & Discussions
14:30-15:00	Don Lamb (LMU), "Fluorescence methods for elucidating the mechanisms of life"
15:00-15:30	Yair Shokef (TAU), "Elastic interactions between living cells"
15:30-16:00	Chase Broedersz (LMU), "Feeling the tension: cell-induced stresses in the extracellular matrix"
16:00-16:30	Coffee
16:30-17:00	Yael Roichman (TAU), "Long range correlated motion of plasma membrane proteins"
17:00-17:30	Dieter Braun (LMU), "Nonequilibrium biophysics for the origin of life"