



The Center for Physics and  
Chemistry of Living Systems  
Tel Aviv University

## TAU BioSoft Day #1

3 January 2019

Porter Auditorium, Tel Aviv University

- 09:00–09:30 Gathering
- 09:30–10:15 Olivia du Roure (ESPCI Paris)  
Mechanics and dynamics of actin cytoskeleton networks
- 10:15–10:45 Amir Bashan (Bar-Ilan)  
The universal dynamics of the human microbiome
- 10:45–11:15 Coffee
- 11:15–12:00 David Andelman (Tel Aviv)  
The centennial Poisson-Boltzmann theory is alive and kicking today!
- 12:00–12:30 Ido Regev (Ben-Gurion)  
Energy-landscape dynamics in the reversibility-irreversibility transition  
in amorphous solids under oscillatory shear
- 12:30–14:00 Lunch
- 14:00–14:45 Edan Lerner (Amsterdam)  
Low-energy excitations in glassy solids
- 14:45–15:15 Michael Moshe (Hebrew)  
Geometric aspects of epithelial tissue mechanics
- 15:15–15:45 Coffee
- 15:45–16:30 Sam Safran (Weizmann)  
Nonlinear dynamics of cardiomyocyte beating
- 16:30–17:00 Kinneret Keren (Technion)  
Hydra morphogenesis: Actin dynamics and the role of topological defects