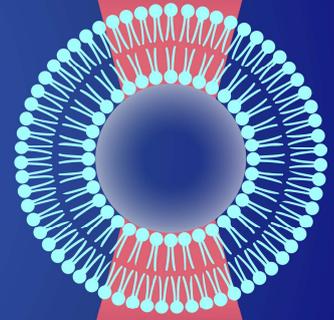


SORKIN LAB

Membrane and cellular biophysics



Post-Doctoral Positions: Unraveling Membrane Fusion Mechanisms Using Mechanical Single-Molecule Methods

At the newly-founded group of Dr. Raya Sorkin, Department of Physical Chemistry, School of Chemistry, Tel Aviv University, Israel, <https://sorkinraya.wixsite.com/sorkinlab>

Start Date: Flexible

Term of appointment: 1 year initial appointment, renewal upon mutual agreement for additional 1/2 years.

Salary: Starting from 10,000 NIS net per month.

Projects Overview: The aim of the two projects is to reveal the role and action mechanisms of fusion-mediating proteins in the process of membrane fusion, using a combination of single-molecule techniques (including optical tweezers and AFM). Two positions are available: to study membrane fusion in fertilization as well as membrane fusion during viral infection. The approach includes developing controlled model systems, such as micro-beads coated with membranes of defined composition with incorporated proteins of interest, to quantitatively study protein-protein and protein-membrane interactions.

Your profile: For this interdisciplinary project, we look for a trained experimentalist with a strong record of research in biophysics or soft matter, preferably with prior experience with membrane model systems (e.g., GUVs, GPMVs), microscopy and/or force-spectroscopy. A Ph.D. in biophysics, physics, chemistry, biochemistry, molecular biology or a related field is required. Additional qualifications: fluent in English (spoken and written), self-motivated, and able to thrive in a collaborative and multidisciplinary environment.

Our lab is equipped with state of the art instrumentation for single-molecule mechanical studies. We are affiliated with the Center for the Physics and Chemistry of Living Systems at Tel Aviv University that provides a most stimulating environment for biophysical research by bringing together groups from various disciplines that study biophysical problems by a wide range of approaches. The campus is located in the north of Tel Aviv, which is a fun and vibrant city with international atmosphere.

To apply: Interested candidates should apply directly to Dr. Sorkin at rsorkin@tauex.tau.ac.il and provide the following:

- Curriculum vitae
- Cover letter describing your prior experience and motivation to join our lab
- Names and contact information for at least two references