

## Workshop Program - May 27<sup>th</sup>

### "Cryo-Electron Tomography for Life Sciences and Soft Matter" Ben-Gurion University of the Negev, Beer Sheva

📍 **Building 38 (Life Sciences educational labs building):**  
Room 006: Hands-on  
Room 010: Lectures

09:30 – 10:00	<b>Get together &amp; Coffee</b>	
	Ori Avinoam / WIS	
10:00 - 11:00	<b>MICROSCOPY WORKFLOWS - WHAT IS OUT THERE, AND WHICH ONES SUIT MY NEEDS?</b>	
	<b>SINGLE PARTICLE ANALYSIS</b>	<b>TOMOGRAPHY</b>
10:10 - 12:10	Gabriel Frank / BGU INTRO TO HIGH RESOLUTION SINGLE PARTICLE CRYO-EM	Ran Zalk / BGU THE TILT SERIES, AND ITS METADATA (HANDS-ON)
12:10 - 13:00	<b>Lunch</b>	
13:00 - 14:00	Elina Klukin / BGU ASSESSMENT OF DATASET QUALITY. FROM MICROGRAPHS TO 2D CLASS AVERAGES	Ran Zalk / BGU TOMOGRAPHY SAMPLES PREPARATION AND DATA COLLECTION STRATEGIES
14:00 - 14:10	<b>Coffee</b>	
14:10 - 15:00	Elina Klukin / BGU INITIAL MODEL BUILDING AND ANALYSIS OF THE RESULTS	Gabriel Frank / BGU SOURCES OF IMAGE CORRUPTION AND STRATEGIES FOR SUB TOMOGRAM AVERAGING
15:10 - 16:00	Gabriel Frank / BGU 3D-MAP VALIDATION	Ran Zalk / BGU TOMOGRAPHIC RECONSTRUCTION AND VISUALIZATION OF RESULTS (HANDS-ON)
16:00 – 16:10	<b>Coffee</b>	
16:10 - 17:10	Leeya Engel / Technion <b>ADVANCED APPLICATION, CUTTING-EDGE AND CURRENT TRENDS IN CRYO-EM</b>	
17:10	Departure	

#### Workshop Organizing Committee:

- Gabriel A. Frank, Ben Gurion University of the Negev