

Sunday, February 13, 2022

08:30

**Departure from TAU**

11:30 - 11:50

**Opening Session**

11:50 - 12:30

**Ady Arie**

The Quantum Nature of Light and its Application for Secure Communication

12:30 - 13:10

**Ronit Satchi-Fainaro**

Precision Nanomedicines for Cancer Theranostics

13:10 - 14:40

**Lunch**

14:40 - 15:20

**Tal Dvir**

Nanotechnological Strategies for Engineering Complex Tissues

15:20 - 15:50

**Coffee Break + Check In**

15:50 - 16:30

**Yuval Ebenstein**

NanoBioPhotonics for Studying the Human Genome

16:30 - 17:10

**Yoram Dagan**

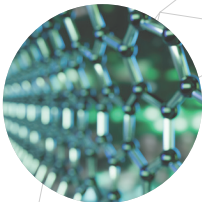
Ferroelectricity, Magnetism, and Superconductivity in a Two-Dimensional Electronic System

19:00

**Dinner**

21:00

**D.J. Party**





Monday, February 14, 2022

07:30 - 09:00 **Breakfast**

09:00 - 09:40 **Roy Beck- Barkai**  
Order from the Disorder with Intrinsically Disordered Peptide Amphiphiles

09:40 - 10:20 **Lihl Adler-Abramovich**  
Peptide Nanostructure and Soft Material for Biological Applications

10:20 - 13:30 **Tour**

13:30 - 15:00 **Lunch Break**

15:00 - 15:40 **Gili Bisker**  
Imaging and Sensing in the Near-Infrared using Fluorescent Single-Walled Carbon Nanotubes

15:40 - 16:20 **Itai Benhar**  
Antibody-Targeted Lipid-Nanoparticle Mediated Inhibition of the GPCR RXFP1 Signaling Pathway as a Therapeutic Approach for Ovarian Cancer

16:20 - 17:00 **Dan Peer**  
From Gene Silencing to Gene Editing

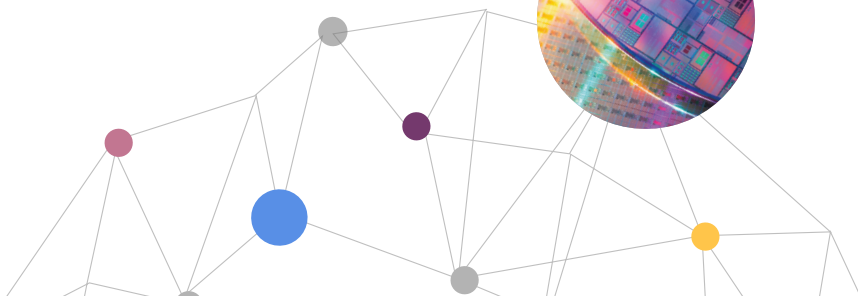
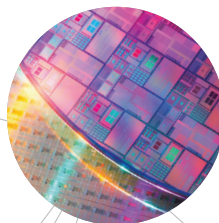
17:00 - 17:30 **Coffee Break**

17:30 - 18:45 **Poster Flash**

19:15 **Dinner**

20:30 **Poster Session**

21:30 **Karaoke Party**



**Early Morning Tour - Sunrise in Masada**

07:30 - 09:30 **Breakfast**

09:30 - 10:30 **Start-Up Panel**

Chair: **Dan Peer**, Panel Members: **Yuval Ebenstein, Ehud Gazit, Ady Arie, Yael Hanein**

**Parallel Sessions**

10:30 - 10:55

◆ **Vered Padler-Karavani**

Deciphering Mechanisms of Biodevice Calcification in Humans by Glyco-Nanotechnology

◆ **Yael Hanein**

Soft Electronic Devices in Retinal Interfacing Applications

10:55 - 11:20

◆ **Ehud Gazit**

Metabolite and Peptide Self Assembly: Physiology, Pathology, and Nanotechnology

◆ **Gilad Yossifon**

Nonlinear Electrokinetic Phenomena in Micro- and Nano-Fluidics Devices

11:20 - 11:50

**Coffee Break + Check out**

11:50 - 12:15

◆ **Doron Shabat**

Recent Advances and Challenges in Luminescent Imaging: Bright Outlook for Chemiluminescence of Dioxetanes in Water

◆ **Yael Roichman**

Stochastic Reseting of Active and Passive Systems

12:15 - 12:40

◆ **Raya Sorkin**

Nanoscale Membrane Curvature Sensitivity by Tetraspanin Proteins

◆ **Haim Suchowski**

Coherent Control of Nanostructures and 2D Materials

12:40 - 13:00

◆ **Alexander Kotlyar**

Synthesis and Properties of Novel DNA-Based Nanostructures For Nanoelectronics

◆ **Amit Sitt**

Soft Microfiber-Based Transformers: More Than Meet the Eye

13:00 - 14:00

**Lunch**

14:00 - 14:20

◆ **Ayelet Lesman**

Mechanical Interaction of Cells and Their Environment: Insights Across Diverse Systems

◆ **Koby Scheuer**

Generation of Pseudo-Random Speckle Patterns with Optical Metasurfaces: Fundamentals And Applications

14:20 - 14:40

◆ **Roey Amir**

The Power of Molecular Precision in Designing Functional Polymeric Assemblies

◆ **Moshe Ben Shalom**

Slide-Tronics

14:40 - 15:00

◆ **Ben Maoz**

Bio-Hybrid Systems for Advanced Sensing

◆ **Viktor Ariel**

Unified Field Theory of the Effective Mass