

Sunday, February 13, 2022

08:00

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 - 16:00

Yuval Ebenstein

NanoBioPhotonics for Studying the Human Genome

16:00 - 16:30

Coffee Break + Check In

16:30 - 17:10

Doron Shabat

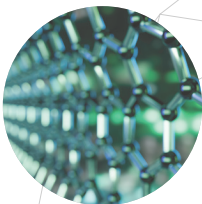
Recent Advances and Challenges in Luminescent Imaging: Bright Outlook for Chemiluminescence of Dioxetanes in Water

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

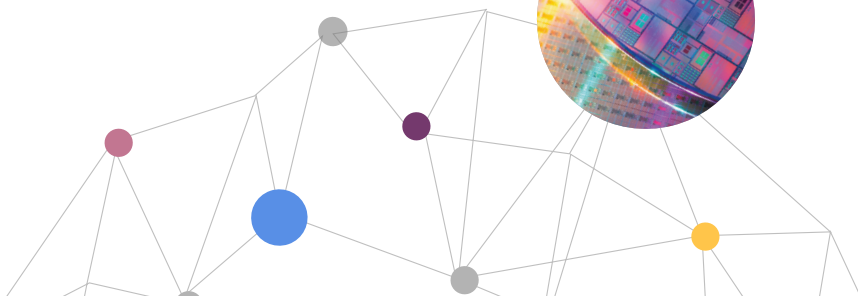
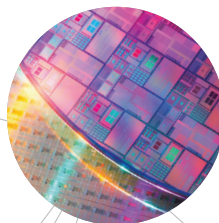
17:00 - 17:30 **Coffee Break**

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

19:15 **Dinner**

20:30 **Poster Session**

21:30 **Karaoke Party**



Tuesday, February 15, 2022 | Parallel Sessions

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

◆ **Roey Amir**

The Power of Molecular Precision in Designing Functional Polymeric Assemblies

◆ **Gilad Yossifon**

Nonlinear Electrokinetic Phenomena in Micro- and Nano-Fluidics Devices

11:20 - 11:50

Coffee Break + Check out

11:50 - 12:15

◆ **Ben Maoz**

Bio-Hybrid Systems for Advanced Sensing

◆ **Yael Roichman**

Stochastic Resonating of Active and Passive Systems

12:15 - 12:40

◆ **Raya Sorkin**

Pushing and Pulling Biological Membranes

◆ **Haim Suchowski**

Coherent Control of Nanostructures and 2D Materials

12:40 - 13:05

◆ **Alexander Kotlyar**

Synthesis and Properties of Novel DNA-Based Nanostructures For Nanoelectronics

◆ **Amit Sitt**

Soft Microfiber-Based Transformers: More Than Meet the Eye

13:05 - 14:00

Lunch

14:00 - 14:25

◆ **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

14:25 - 14:50

◆ **Moshe Ben Shalom**

Slide-Tronics

◆ **Viktor Ariel**

Unified Field Theory of the Effective Mass