

## The 11<sup>th</sup> Fred Chaoul Annual Workshop Meeting Program

### Monday, 6 March 2017

9:30 Departure from TAU, Gate 4

09:30-12:00 Trip

12:00-14:00 Arrival, Registration, and Lunch

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14:00-14:15

Opening and Greetings

14:15 -15:00

Keynote Lecture

Prof. Peter H. Seeberger

Director

Max-Planck-Institute of Colloids and Interfaces

**Automated Glycan Assembly: Basis for Carbohydrate Nanotechnology, Vaccines, Diagnostics and Material Science**

### Session 1 (BIOLOGY) - Chair: David Sprinzak

15:00 -15:30

Ronit Satchi – Fainaro (Medicine),

**Amphiphilic Nanocarrier-Induced Modulation of Plk1 and Mir-34a Leads to Improved Therapeutic Response in Pancreatic Cancer**

15:30 -16:00

Yariv Wine (Biotechnology),

**High-Resolution Analysis of the Serum Antibody Repertoire Following Vaccination Utilizing Shotgun Proteomics and Next Generation Sequencing**

16:00- 16:45

Coffee Break + Check-In (rooms will be available after 15:00)

### Session 2 (BIOLOGY) - Chair: Vered Padler-Karavani

16:45-17:15

David Sprinzak (Life Sciences),

**A Synthetic Biology Approach for Studying Fat4-Ds1 Planar Cell Polarity Signaling**

17:15 -17:45

Johann Elbaz (Life Sciences,)

**Synthetic Biology: Technologies Towards Production of Artificial Materials in Living Cells**

17:45 -18:00

Assaf Har-Noy (Chemistry, Roey Amir) - **Student Talk**,

# The Fred Chaoul 11<sup>th</sup> Annual Nano Workshop

6-8 March, 2017, Daniel Dead Sea Hotel



## Controlling the Enzymatic Disassembly Rates of Polymeric Micelles Through Synthetic Precision

### Session 3 - Poster Flash - Chair: Yuval Ebenstein

18:00 - 18:30

Poster Flash Sessions

19:30

Dinner

20:30

Poster Session, Beer and Snacks

### Tuesday, 7 March 2017

07:30 – 08:30

Breakfast

08:30 – 13:00

Half Day Tour

13:00 – 14:30

Lunch

### Session 4 (NANO/BIOLOGY) - Chair:

14:30-15:00

Tal Dvir (Life Sciences),

**Nanotechnological Strategies for Engineering Hearts and Other Body Parts**

15:00-15:30

Dinorah Friedmann-Morvinsky (Biochemistry),

**Targeting Glioma Stem Cells via Tumor-Homing Peptide Functional Nanoparticles**

15:30-16:00

Moshe Parnas (Medicine),

**From Sensory Neural Codes to Behavior**

16:00-16:15

Rona Shaharabani (Chemistry, Roy Beck- Barkai) - **Student Talk**,

**A Biophysical Perspective on Multiple Sclerosis Development**

16:15-16:45

Coffee Break

### Session 5 (OPTICS) – Chair Nati Shaked

16:45-17:15

Ady Arie (Engineering),

**Structured Super Oscillating Beams of Photons and Electrons**

17:15-17:45

Ori Cheshnovsky (Chemistry),

**Super Resolution Microscopy Based on Photo-Modulated Reflectivity**

17:45-18:15

Tal Ellenbogen (Engineering),

**Molding the Flow of Light with Nanostructured Materials**

18:15-18:45

Eran Sela (Physics),

**Majorana Fermions in Nanostructures for Quantum Computation**

19:00-20:30

Dinner

21:00

Social Event

### Wednesday, 8 March 2017

07:30-09:00

Breakfast

### Session 6 (Chemistry/NANOchemistry) – Chair: Ori Cheshnovsky

09:00-09:30

Amit Sitt (Chemistry),

**Constructing Microstructured Reactors from Multicompartmental Nano and Microscale Polymeric Fibers**

09:30-10:00

Lihi Adler-Abramovich (Medicine),

**Controlling the Physical Properties of Peptide Based Nanostructures by Supramolecular Polymer Co-Assembly**

10:00 -10:15

Eran Maniv (Physics, Yoram Dagan) - **Student Talk**,

**Tunneling Into a Quantum Confinement Created By a Single-Step Nano-Lithography of Conducting Oxide Interfaces**

10:15 -10:45

Coffee Break

**Session 7 (NANO/BIOLOGY) – Chair: Dinorah Friedmann-Morvinski**

10:45-11:15

Danny Segal (Life Sciences),

**Inhibiting Self-Assembly of Amyloids By Small Molecules and Peptido-Mimetics – The Case of Tau in Alzheimer's Disease**

11:15-11:45

Yuval Ebenstein (Chemistry),

**Super-Resolution Tracking of Nanomachines and DNA in Nanochannel Arrays**

11:45-12:15

Yoni Haitin (Medicine),

**Molecular Insights Into KCNH1 Channels Current Inhibition**

12:15-12:45

Valery Gerber (MNCF),

**3D Die/Wafer Level Integration Using "Through-Silicon Via" Technology**

12:45-13:00

Closing Remarks

13:00-14:00

Lunch and Departure