

בנס האגודה הישראלית לביופיסיקה 2015

The Israeli Biophysical Society Annual Meeting 2015

הפקולטה להנדסת ביוטכנולוגיה ומזון, הטכניון, חיפה

SCHEDULE

- 09:00 - 09:30 Registration
- 09:30 - 09:35 **Amit Meller (Tech)** Welcome notes
- 09:35 - 09:45 **Elisha Hass (BIU)**, "Benjamin Erenberg A"H: researcher, teacher and leader"

MAIN SESSION [1st floor Auditorium]

- 09:45 - 10:15 **Roy Bar Ziv (WIS)**, "Programmable on-chip DNA compartments as 'artificial cells'"
- 10:15 - 10:45 **Daniel Ramez (Tech)**, "Analog and digital approaches for engineering large-scale gene networks"
- 10:45 - 11:15 **Udi Gazit (TAU)**, "Biomolecular self-assembly: From aggregation disorders to novel materials and back"
- 11:15 - 11:45 Coffee
- 11:45 - 12:15 **Leah Gheber (BGU)**, "Bi-directional motility of the mitotic kinesin-5 motor protein Cin8"
- 12:15 - 12:45 **Yuval Garini (BIU)**, "Revealing the nuclear organization - From dynamics to structure and function"
- 12:45 - 13:15 **Dganit Danino (Tech)**, "1D self-assembly of peptides and lipids into ribbons and nanotubes"
- 13:15 - 13:45 **Raz Zarivach (BGU)**, "Studies of BteA, a pathogenic type III secreted effector"
- 13:45 - 14:45 Lunch and posters

PARALLEL SESSIONS (lectures 15+5 min.)

PHYSICAL ASPECTS IN BIOPHYSICS

Chair: **Nir Gov (Weizmann)**

- 14:45 - 15:05 **David Sprinzak (TAU)**, "The interplay between cell-cell signaling and cell morphology"
- 15:05 - 15:25 **Anne Bernheim (BGU)**, "The dynamics of buckling of self-organizing contractile sheets"
- 15:25 - 15:45 **Assaf Zemel (HUJI)**, "Elastic determination of cell form and fate"
- 15:45 - 16:05 Coffee
- 16:05 - 16:25 **Ofer Feinerman (WIS)**, "The role of individualism during collective transport by ants"
- 16:25 - 16:45 **Na'ama Brenner (Tech)**, "Universal fluctuations and ergodic dynamics of protein content in cells"
- 16:45 - 17:05 **Dan Gorbonos (WIS)**, "Long-range acoustic interactions in insect swarms: an adaptive gravity model"

CHEMICAL ASPECTS IN BIOPHYSICS

Chair: **Barak Akabayov (BGU)**

- Irit Sagi (WIS)**, "Modulation of native collagen assemblies In Vivo regulates disease progression"
- Michael Meijler (BGU)**, "Species meet species: how chemical signaling influences such encounters"
- Hagan Hofmann (WIS)**, "Observation of ultra-fast motions in a transcription activator complex"
- Coffee
- Ronen Kopito (Harvard)**, "Systemic activation coordinates the heat shock response of the insulin/IGF-1 pathway in *Caenorhabditis elegans*"
- Liraz Chai (HUJI)**, "Aggregation of a bacterial extracellular matrix protein"
- Ehud Ohana (BGU)**, "Physiological implications of transepithelial carboxylic acid absorption and regulation by SLC26A6"