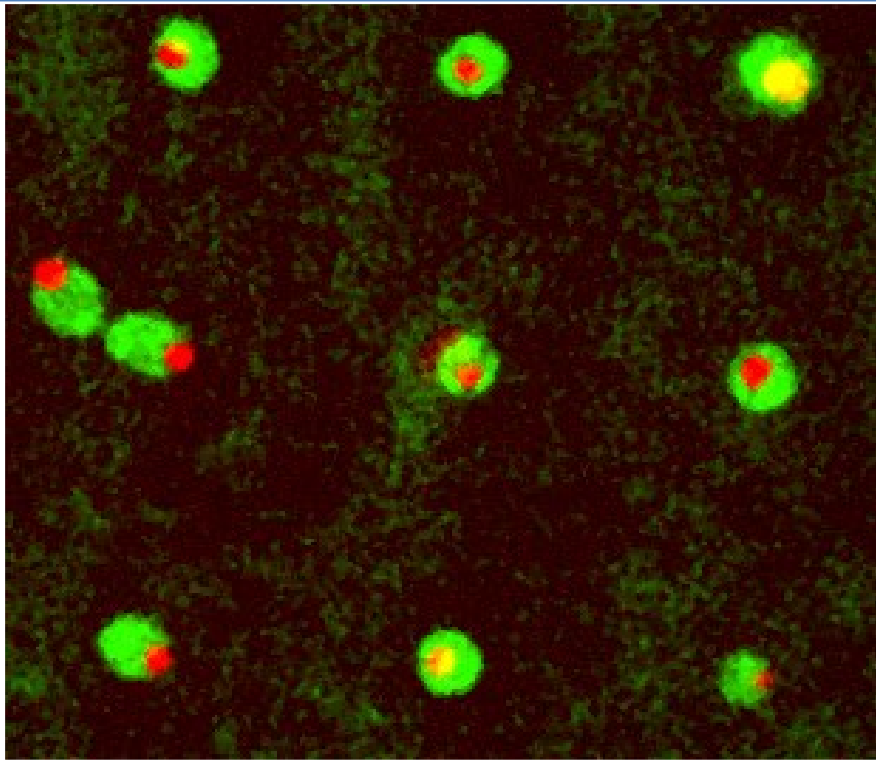


Workshop on Biomedical Optical Imaging and Laser Manipulations



Fluorescently-labeled yeast cells trapped in optical tweezers



Chairs:

Natan T. Shaked

Department of Biomedical Engineering

Yael Roichman

School of Chemistry

Tel Aviv University

Beit Hatfutsot

Tel Aviv University

July 28, 2014, 9:00-19:30

Workshop Program

9:00-9:40 *Coffee and gathering*

9:40-10:00 **Natan Shaked** and **Yael Roichman**,
Tel Aviv Univ, Opening remarks

Session I

10:00-10:50 **Kishan Dholakia**, *Univ of St Andrews, UK*
Shaping light for Imaging and manipulation (**Keynote**)

10:50-11:40 **Yaron Silberberg**, *Weizmann Institute*
Wavefront shaping for deep-tissue microscopy

11:40-12:00 *Coffee break and student posters*

Session II

12:00-12:25 **Jacob (Koby) Scheuer**, *Tel Aviv Univ*
Nano-particle trapping by nano-antennas enhanced optically induced dielectrophoresis

12:25-12:50 **Zeev Zalevsky**, *Bar Ilan Univ*, Biomedical movement sensing and imaging

12:50-13:15 **Erez Hasman**, *Technion*, Spinoptical metasurfaces: spin-controlled photonics

13:15-14:15 *Lunch*

Session III

14:15-14:40 **Ibrahim Abdulhalim**, *Ben Gurion Univ*
Correlating between spectropolarimetric images and skin cancer

14:40-15:05 **Yuval Garini**, *Bar Ilan Univ*, Optical methods for live cell imaging – toolkit for studying the nucleus and its organization.

15:05-15:30 **Yuval Ebenstein**, *Tel Aviv Univ*, Single molecule imaging of genomic information

15:30-15:55 **Eilon Sherman**, *Hebrew Univ*, Multicolor imaging of single molecules in protein complexes

15:55-16:20 **Alberto Bilenca**, *Ben Gurion Univ*
Bio-optics: from diagnosis to mesoscopic and single molecule imaging

16:20-16:40 *Coffee break and student posters*

Session IV

16:40-17:05 **Max Platkov** and **Avraham Katzir**,
Ariel Univ and Tel Aviv Univ, Scanning near-field microscopy (SNOM) for biomedical imaging and other applications

17:05-17:30 **Tal Ellenbogen**, *Tel Aviv Univ*
Multifunctional beam shaping and chromatic aberration corrections with plasmonic meta-surfaces

17:30-17:55 **Itai Epstein** and **Adi Arie**, *Tel Aviv Univ*
Shaping plasmonic light waves with near-field plasmonic holograms

17:55-18:20 **Elad Greenfield** and **Moti Segev**,
Technion, Optical manipulation in densely scattering suspensions

18:20-18:30 *Concluding remarks*

18:30-19:30 *Dinner*