

The 4th Meeting of the IFCM

January 14, 2016, Technion

Integrative biophysical and cellular approaches in the advancement of cytoskeleton structure and function

Final Program (Jan 10, 2016)

Invited Talks 25 min long (20+5 for questions), contributed talks 15 min long (12+3)

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| 8:50-9:15 | Gathering and Coffee |
| 9:15-9:20 | Opening Remarks |
| 9:20-10:40 | Session 1: Force-Driven Cytoskeleton Dynamics and Organization |
| 09:20-09:45 | Tensile forces regulate the formation and orientation of 3D vascular networks Shulamit Levenberg |
| 09:45-10:00 | Theoretical Analysis of Stress Distribution and Cell Polarization Surrounding a Model Wound Yonit Maroudas-Sacks |
| 10:00-10:15 | Migration in Mechanical Invasiveness of Breast Cancer Cells Martha Alvarez-Elizondo |
| 10:15-10:40 | Physical Mechanisms For Actin-Driven Repair of Toxin Induced Macro-Apertures Tom Shemesh |
| 10:40-11:00 | Coffee Break |
| 11:00-12:20 | Session 2: Migration and Driven Motility |
| 11:00-11:25 | En Mass Cell Migration: Experiments and Theory Amit Gefen |
| 11:25-11:40 | VPS4 Shapes Early steps in Cilia formation and alters Centriolar Satellites Natalie Elia |
| 11:40-11:55 | Intermediate-Filaments: From Disordered Building Blocks to Well-Ordered Cells Micha Kornreich |
| 11:55-12:10 | Theory of Multi-Motor Driven Nano-Carriers with Application to Rational Design Rony Granek |
| 12:10-12:20 | Sponsor Talk: Agentek Ltd. |
| 12:20-14:00 | Lunch and Poster Session |

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| 14:05-15:00 | Session 3: Function and Regulation of Molecular Motors in The Cytoskeleton |
| 14:05-14:30 | Class-18 Myosins Are Versatile Actin Binding Proteins Manuel Taft |
| 14:30-14:45 | Plant Myosin VIII Cosegregates with Rem6.6, a Plasma Membrane Microdomain Marker, Which Also Binds MT's Einat Sadot |
| 14:45-15:00 | Motile Properties of The Bi-Directional Kinesin-5 Cin8 Are Affected By Phosphorylation Ofer Shapira |
| 15:00-15:20 | Coffee Break |
| 15:20-16:20 | Session 4: Cytoskeleton Function in Diverse Biological Processes, Regulation, and Structural Organization |
| 15:20-15:45 | The Roles of Actin Cytoskeleton and its Regulatory Proteins in Memory Formation Raphael Lamprecht |
| 15:45-16:00 | Myo19 is an Outer Mitochondrial Membrane Motor and Effector of Starvation Induced Filopodia Boris Shneyer |
| 16:00-16:15 | A New Component of Skeletal Muscle, Plakoglobin, Links The Cytoskeleton to Membrane-Bound Structures Yara Eid |
| 16:15-16:25 | Closing Remarks |

We acknowledge the generous support of:

