

**"Physics & Biology of Plant Growth" Workshop, Ein Gedi 2023**

MONDAY 30/1	TUESDAY 31/1	WEDNSDAY 1/2	THURSDAY 2/2
	Session 2 / Eran Sharon		Session 5 / Eran Sharon
	09:00 Enrico Coen <i>The Genetic Control of Cell Layer Interactions Through Mechanics in Plants</i>	TRIP TO MASSADA	09:00 Bruno Moulia <i>Growing Straight: Evidences of active proprioceptive control in plants</i>
	09:40 Dorota Kwiatkowska <i>Heterogeneous yet symplastic plant growth: how mechanical conflicts are solved at subcellular scale</i>		09:40 Yasmine Meroz <i>Revealing how memory shapes time-dependent computational processes in plant tropisms</i>
	10:20 Julien Derr <i>Plant Nutation : Universality, Dynamics, and New Insights to Characterize it as a Physical Instability</i>		10:20 Giacomo Vecchiato <i>A 2D Model to describe the mechano-sensory behaviour of self-supporting shoot against gravity</i>
	10:35 Jordy Perez-Gonzalez <i>Linking in planta studies to neurobiology: The Arabidopsis thaliana and human cysteine-rich PDZ-binding proteins CRIPTs</i>		10:35 Ahron Kempinski <i>Integration of multiple stimuli in plant tropisms</i>
	10:50 COFFEE		10:50 COFFEE * ROOMS CHECK-OUT
	11:30 Alain Goriely <i>The mechanics of twist, torsion, and chirality in plants</i>		11:30 Yoel Forterre <i>Active actuation of the Venus flytrap: hydraulics or mechanics?</i>
	12:10 Emilien Dilly <i>Biomechanics of Tendrils: Force and Curvature Generation in Climbing Plants</i>		12:10 Anja Geitmann <i>Multi-scale architectural features steer organ actuation</i>
	12:25 Renee Dale <i>Competition for resources during semi-sequential growth of developmental units drive allometric patterns in grasses</i>		12:50 LUNCH
	12:40 LUNCH / BOTANICAL GARDEN	13:00 LUNCH	Session 6 / Yasmine Meroz
	Session 3 / Idan Efroni	Session 4 / Yasmine Meroz	13:40 Thomas Speck <i>Ontogenetic development and force generation in coiling tendrils and adhesive pads in climbing plants exemplified by the genus Passiflora</i>
	14:00 Evelyne Kolb <i>Biomechanics of plant roots interacting with obstacles</i>	14:00 Naomi Ori <i>Leaf patterning in tomato</i>	14:20 Jessica Huss <i>Structure and growth of cactus spines</i>
	14:40 Alexis Maizel <i>Cell remodeling and cytoskeleton dynamics during lateral root formation</i>	14:40 Naomi Nakayama <i>What determines biological shape? A case of the dandelion pappus</i>	14:35 Noy Sadot <i>The effects of media on plant callus regeneration and development</i>
14:30 ARRIVAL	15:20 Pablo Szekely <i>Patterning and growth are coordinated early in the cell cycle</i>	15:20 Amir Porat <i>On the mechanical origins of waving, coiling and skewing patterns in Arabidopsis thaliana roots</i>	14:50 GOODBYE
	15:35 Rotem Matosevich <i>Active recruitment of shoot-derived carbohydrates controls root regeneration</i>	15:35 Alexander Goldshmidt <i>Solanum lycopersicum CLASS-II KNOX genes regulate fruit anatomy via gibberellin-dependent and independent pathways</i>	
16:50 GREETINGS	15:50 COFFEE	15:50 COFFEE	
Session 1 / Sigal Savaldi-Goldstein	16:30 Adrienne Roeder <i>Mechanisms generating robustness in the morphogenesis of Arabidopsis sepals</i>	16:40 Eldad Afik <i>Dynamical States of Self-Organised Organism Feeding on Light</i>	
17:00 Staffan Persson <i>Expanding the cellulose synthesis repertoire in plants</i>	17:10 Emmanuel Siefert <i>Geometric frustration as a route to bioinspired shape-morphing inflatables</i>	16:55 Amir Ohad <i>Initiation of twining in climbing beans</i>	
17:40 Alexis Peaucelle <i>Optical nanoscopy on the cell wall polymers brings to light a new plant growth model</i>	17:25 Camille Le Scao <i>A front propagation model of leaf growth</i>	17:10 Matan Mussel <i>Surface deformation during action potentials in Characean algae</i>	
18:20 Valentina Elettra Alberti <i>Quantitative structure-formation analysis of the secondary cell wall in Arabidopsis orchestrated by AtROP11 and ABA</i>	17:40 Jakub Hajny <i>Non-coding regulation of tissue-specific expression of CANAR receptor</i>	17:25 Yair Zarmi <i>Time scales, over which photosynthetic photon efficiency is high, the case of unicellular algae</i>	
18:35 Einat Sadot <i>Collisions of Cortical Microtubules with Membrane Associated proteins</i>	17:55 David Zalabák <i>Decoy Receptor Fine-tunes Cytokinin Signaling in Arabidopsis</i>	17:40 Erik Gengel <i>A physics based model of swarming jellyfish</i>	
18:50 BEERS+WINE	18:10 BEERS	17:55 BEERS	
20:00 DINNER	19:30 DINNER	19:30 DINNER	