

Wednesday 28.8.2024

Morning	10:00 - 10:45	10am: Welcome & Opening Remarks & COST Action Presentatoin (John & Lucja)
	10:45 - 11:15	Session I - Large - Scale Curvature in Nature & Visualisation Jan Christoph Otto (PLUS Salzburg, Austria) <i>Shaping the Earth's surface – does curvature matter?</i>
	11:15 - 11:45	Jessica Huss (BOKU Vienna) (s.A) <i>Humidity-driven shape morphing in cactus spines</i>
	11:45 - 12:15	Margot Riggi (University of Utah, USA) <i>3D modeling and animation for hypothesis exploration</i>
	12:15 - 13:30	LUNCH
Afternoon	13:30 - 14:00	Session II - Organs & Tissues Félix Hartmann (INRAE, France) <i>The role of curvature and (de)curving in plant acclimation and tropisms</i>
	14:00 - 14:30	Stanisław Żukowski (Uniwersytet Warszawski) (s.A) <i>The interplay of physics and geometry in the morphogenesis of the jellyfish canal network</i>
	14:30 - 15:00	Nicholas Kurniawan - Eindhoven University of Technology <i>What's in the 3rd (and 4th) dimension?</i>
	15:00 - 15:30	30' COFFE BREAK
	15:30 - 16:00	Marija Matejcec (Institute for Bioengineering of Catalonia, Spain) <i>Mechanics of cell extrusion in the intestinal epithelium</i>
	16:00 - 16:30	Sebastian Callens (Imperial College London, UK) <i>Rationally mesostructured surfaces for geometry-guided tissue growth</i>
		COST - Working Groups (WGs) meetings
16:30 - 16:45	WG session - Introduction	
16:45 - 18:15	separate meetings of the WGs	
18:15 - 18:30	coffee / refreshments	
18:30 - 19:30	joint discussion	

Thursday 29.8.2024

Morning	9:00 - 9:30	<p>continuation Session I: Arielle Blonder (Technion, Israel) <i>Sustainable curving: Self-morphing architecture, learnt from plants</i></p>
	9:30 - 10:00	<p>Session III - Cell collectives, Cells & Microorganisms</p> <p>Mario Benn (ETH Zurich, Department of Health Sciences and Technology, Switzerland) <i>Microtissue platform to study how mechanobiology regulates tissue growth</i></p>
	10:00 - 10:30	<p>Cécile Bidan (Max Planck Institute of Colloids and Interfaces, Germany) <i>Shaping slime: how to guide bacterial biofilm morphology via substrate properties.</i></p>
	10:30 - 11:00	30' COFFEE BREAK
	11:00 - 11:30	<p>Javier Buceta (University of Valencia, Institute for Integrative Systems Biology, Spain) <i>The Mechanobiology of Buckling during Bacterial Filamentation</i></p>
	11:30 - 12:00	<p>Ulrich Schwarz (Heidelberg University, Institute for Theoretical Physics, Germany) <i>Modelling cell shape and movement in structured environments</i></p>
	12:00 - 12:30	<p>Marie-Ly Chapon (Institut de Science des Matériaux de Mulhouse) (s.A) <i>Role of substrate curvature in cell migration and epithelium morphogenesis</i></p>
12:30 - 13:00	<p>Caterina Tomba (Institut des Nanotechnologies de Lyon, France) <i>Epithelial cells surfing the wave, or adapting to curvature changes</i></p>	
13:00 - 14:30	LUNCH	
	14:30 - 15:00	<p>Aylin Şendemir</p> <p><i>"EU project (CoCreAid) on "online working platforms to ease the collaboration between European Higher Education Institutions (HEIs) and NGOs through digital co-creation methods"."</i></p>
Afternoon	15:00 - 16:00	Poster flash talks
	16:00 - 17:30	Poster Session
Evening	19:00 - 23:00	Conference Dinner & Networking

Friday 30.8.2024

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Morning		Session IV - Membranes & Molecular Level
	9:00 - 9:30	Gerd Schröder-Turk (Murdoch University, Australia) <i>Optical signals as indicators of Gyroid structure development in butterflies</i>
	9:30 - 10:00	Bodo Wilts (University of Salzburg, Austria) <i>Dis/ordered photonic networks in insects</i>
	10:00 - 10:30	30' COFFE BREAK
	10:30 - 11:00	Michał Gabruk (Jagiellonian University, Poland) <i>Molecular insights of membrane remodeling by LPOR</i>
	11:00 - 11:30	Jan M. Sischka (Tu Dresden) (s.A) <i>Modeling shapes of multi-component biomembranes</i>
	11:30 - 12:00	Agustin Mangiarotti (Max Planck Institute of Colloids and Interfaces, Germany) <i>Membrane wetting and remodeling by biomolecular condensates</i>
	12:00 - 13:00	LUNCH
Afternoon		Session V - Methodological Advances
	13:00 - 13:30	Jitka Čejková (University of Prague, Czechia) <i>Mimicking Biological Structures through Synthetic Systems</i>
	13:30 - 14:00	Jens Vinge Nygaard (Aarhus University, Denmark) <i>Mechanogeometry of nanostructured foams – application in cartilage regeneration</i>
	14:30 - 15:00	Emely Bortel (XPLORAYTION GmbH, Germany) <i>Bone shape from organ to individual cell level - 3D imaging via synchrotron CT</i>
	15:00 - 15:30	Ioanna Zergioti (National Technical University Of Athens, Greece) <i>Laser Induced Forward Transfer as a bioprinting method and applications</i>
	15:30 - 16:00	Concluding Remarks, Poster Prizes, Foto Award,..... 4pm: End of the Conference