

	Monday 14 January	Tuesday 15 January
07:45 - 08:45	Breakfast	Breakfast
08:45 - 08:50		
08:50 - 08:55	<i>Welcome and introduction of Group Work   Bertrand Tavitian, Paris</i>	Elasticity imaging: from fibrosis and tumor pressure to mechanotransduction and visualizing primary neuronal activity <b>Ralph Sinkus, London/Paris</b>
08:55 - 09:00		
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09:15 - 09:20	Introductory Lecture I  Introduction into general parameters of mechanics <b>Stefan Catheline, Lyon</b>	Non-invasive assessment of loading-mediated mechanics of healthy and diseased cartilage models using high-field DENSE MR-Imaging - <b>Ilse Jonckers, Leuven</b>
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10:05 - 10:10		The Developing Brain Viewed by MR Elastography - <b>Jing Guo, Berlin</b>
10:10 - 10:15		
10:15 - 10:20	<b>COFFEE BREAK</b>	<b>COFFEE BREAK</b>
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11:25 - 11:30	Introductory Lecture II  Multi scale views of mechanobiology; from molecules to cells to tissues and organisms <b>Benjamin Geiger, Rehovot</b>	3D matrix confinement and cell-cell adhesion promote collective migration in adherens junction-negative breast cancer cells - <b>Jan Hendrik Venhuizen, Nijmegen</b>
11:30 - 11:35		
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11:50 - 11:55	Dynamic RT-DC: Time-resolved mechanical single cell analysis at 100 cells/s - <b>Bob Fregin, Greifswald</b>	
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12:25 - 12:30	<b>LUNCH</b>	<b>LUNCH</b>
12:30 - 13:00		
13:00 - 16:15	<b>BREAK &amp; Recreation</b>	<b>BREAK &amp; Recreation</b>
16:15 - 16:20	Introductory Lecture II  Multi scale views of mechanobiology; from molecules to cells to tissues and organisms <b>Benjamin Geiger, Rehovot</b>	Quantitative imaging of biomechanical properties using ultrafast ultrasound <b>Mathieu Pernot, Paris</b>
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17:10 - 17:15	Coffee break	Ultrafast ultrasound imaging for monitoring of actomyosin-dependent rapid remodelling of brain tissue by cannabinoids - <b>Charlie Demené, Paris</b>
17:15 - 17:20		
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17:35 - 17:40	MR Elastography: From Multiscale Mechanobiology to Clinical Application <b>Richard Ehman, Rochester</b>	Coffee break
17:40 - 17:45		
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18:00 - 18:05		Natural mechanical wave detection using ultrafast ultrasound and velocity Clutter Filter Wave Imaging - <b>Sébastien Salles, Lyon</b>
18:05 - 18:10	1st Group Work Meeting with supervisors	Imaging biomechanics with ultrasound for improved diagnosis of vascular disease and cancer <b>Chris de Korte, Nijmegen</b>
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19:00 - 19:05	<i>Reception by the Ecole de Physique</i>	
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	Wednesday 16 January	Thursday 17 January			
07:45 - 08:45	Breakfast	Breakfast	07:45 - 08:45		
08:45 - 08:50	Atomic Force Microscopy for imaging the viscoelasticity of cancer cells <b>Claude Verdier, Grenoble</b>	3D X-ray CT : a multiscale, multi contrast technique <b>Francoise Peyrin, Lyon</b>	08:45 - 08:50		
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09:35 - 09:40	Anisotropic nanocrystal probes shed light on the complex dynamics of micro-organisms and fluids - <b>Jongwook Kim, Palaiseau (#T08)</b>	Regional variations in stiffness in live mouse brain tissue determined by depth-controlled indentation mapping - <b>Nelda Antonovaite, Amsterdam (#T01)</b>	09:35 - 09:40		
09:40 - 09:45			09:40 - 09:45		
09:45 - 09:50			09:45 - 09:50		
09:50 - 09:55	ISDoT: In Situ Decellularisation of Tissues for high-resolution imaging and proteomic analysis of native extracellular matrix - <b>Chris Madsen, Lund (#T09)</b>	Pseudo-Zernike based machine learning for the morphology quantification of single virions - a single particle based virus detection - <b>Thomas Bocklitz, Jena (#T02)</b>	09:50 - 09:55		
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10:05 - 10:10	COFFEE BREAK	COFFEE BREAK	10:05 - 10:10		
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11:00 - 11:05	Passive elastography: from body-quake to cell-quake <b>Stefan Catheline, Lyon</b>	Cell optical ultrasonography <b>Bertrand Audoin, Bordeaux</b>	11:00 - 11:05		
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11:45 - 11:50			Tickling the immune synapse - <b>Judith Pineau, Paris (#T11)</b>	Ex vivo multiscale biomechanics in murine skin and Human cornea using multiphoton microscopy - <b>Marie-Claire Schanne-Klein, Palaiseau (#T14)</b>	11:45 - 11:50
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12:00 - 12:05	Exploration of Rapid-Eye-Movement sleep through neurofunctional ultrasound imaging - <b>Marta Matei, Paris (#T10)</b>	Nanoclusters of integrins serving as functional units of cell matrix adhesions, are controlled by ligand geometry and PTPN12 - <b>Rishita Changede, Singapore (#T03)</b>	12:00 - 12:05		
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12:15 - 12:20	LUNCH	LUNCH	12:15 - 12:20		
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13:00 - 16:15			BREAK & Recreation	BREAK & Recreation	13:00 - 16:15
16:15 - 16:20	Optical Coherence Elastography (OCE): Imaging Biomechanical Properties Using Phase-Sensitive OCT and Air-Coupled Ultrasound <b>Matt O'Donnell, Rochester, USA</b>	Combining optical imaging of cleared tissue with mathematical modelling to predict drug delivery to tumours <b>Simon Walker-Samuel, London</b>	16:15 - 16:20		
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17:00 - 17:05			Poster session I  #P02-#P19 <i>(POSTER presentations only)</i>  Coffee Break	Poster session II  #T01-#T17 <i>(presented also as TALKS)</i>  Coffee Break	17:00 - 17:05
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18:30 - 18:35	Removal of posters P02-P19. Hang up of posters of talks T01-T17.		18:30 - 18:35		
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18:40 - 18:45	2nd Group Work Meeting	3rd Group Work Meeting	18:40 - 18:45		
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19:30			Dinner	"Savoyard dinner" by the Ecole de Physique	19:30

<b>Friday 18 January</b>		
07:45 - 08:45	Breakfast	
08:45 - 08:50	<b>Final Group Work Meeting</b>	
08:50 - 08:55		
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09:10 - 09:15	On measuring shock wave induced dynamic state changes in lipid membranes using solvatochromic fluorescent probe Laurdan - <b>Veerle Brans, Oxford</b>	
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09:35 - 09:40	Coherent Raman and Multiphoton imaging microscopy: An alternative to perform instantaneous histology? <b>Barbara Sarri, Marseille</b>	
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10:00 - 10:05	best poster presentation	
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10:15 - 10:20	<b>COFFEE BREAK</b>	
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11:05 - 11:10	<b>Group Work Presentation</b>	
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11:55 - 12:00	<b>Farewell</b> <b>Bertrand Tavitian, Paris</b>	
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12:15 - 12:20	<b>LUNCH</b>	
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13:00 - 16:15		<b>DEPARTURE</b>
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