

5<sup>th</sup> workshop in *Mechanobiology and Physics of Life* in Lyon

Monday June 27th, 2022, Amphi Mérieux, ENS de Lyon

## **SCIENTIFIC PROGRAM**

09h00-09h15	Welcome, coffee
09h15-9h25	Opening
09h25-10h10	<i>Session "Pathologies and cancer 1"</i> <b>Keynote: Gaëlle Recher</b> <i>Confined 3D cell culture used for both investigating cell self-</i> <i>organisation and engineering modular tissue units</i> , (LP2N, Institut d'Optique d'Aquitaine,)
10h10-10h25	<b>Pauline Bregigeon</b> <i>Microfluidic system for culture, monitoring and electroporation of spheroids based on a hydrogel scaffold</i> (Ampère, ECL, Lyon)
10h25-10h40	Léa Chazot-Franguiadakis Nanofluidics for the study of viral particle transport
	(LPENSL, Lyon)
10h40-10h55	Poster teaser 1/2
10h55-11h25	Coffee break
	Session "Pathologies et Cancer 2"
11h25-11h40	Malèke Mouelhi Long-term nuclear regulation of cancer cells under confinement (ILM, Lyon)
11h40-11h55	<b>Léa Barral</b> Impairment in mechanotransduction pathways, a key for AML Chemoresistance (CRCL, Lyon)
12h55-12h10	<b>Fabien Delebosse</b> Characterization of the mechanical properties of lung adenocarcinoma (LTM/Cell&Soft, Grenoble)
12h10-12h15	Idylle-labs presentation
12h15-12h30	Poster teaser 2/2
12h30 -14h15	Lunch and Poster session
	Session "Subcellular and Cellular mechanics"
14h15-14h30	<b>Sigolène Lecuyer</b> Substrate stiffness impacts early biofilm formation by modulating bacterial surface motility (LPENSL, Lyon)
14h30-14h45	<b>Delphine Débarre</b> Mechanical regulation of cell adhesion to a soft wall under flow
	(LiPhy, Grenoble)
14h45-15h00	Sylvain Monnier Probing cell crowding in cells and tissues with Brillouin light scattering
	(ILM, Lyon)
15h00-15h30	Coffee break
	Session "From cells to tissue and development"
15h30-15h45	<b>Benoit Landrein</b> The mechanics of seed size control in plants (RDP, Lyon)
15h45-16h00	<b>Vincent Mirouse</b> WAVE regulatory complex facilitates cell rearrangements through the
	generation of a protrusive F-Actin subpopulation at tricellular junctions. (iGReD, Clermont-Ferrand)
16h00-16h15	Jocelyn Etienne Friction when changing neighbours: adhesion-regulated junction slippage controls cell intercalation dynamics in living tissue (LiPhy, Grenoble)
16h15-17h00	Keynote: Julien Derr Plant morphogenesis: motions, growth and mechanics
	(RDP, ENS de Lyon)
17h00-17h15	Poster prices and closing remarks
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