

## Workshop **Microfluidique en Aquitaine** - 10 Juin 2024 - ENSMAC

08:45		Accueil
09:00		Introduction
09:15	Lucas Suire	Electro-mechanical control of Plateau-Rayleigh instability for homogenous multi-cellular production
09:30	Margaux Zollo	Towards microfluidic liquid-liquid extraction using switchable hydrophilicity solvents
09:45	Jean-Christophe Baret	Microfluidics for next gen biotech solution
10:00	Daniel Garcia Ruano	Measuring the volume of single yeast cells using a microfluidic-based fluorescence exclusion method
10:15	Claire-Line Marais	Developing a Drop-based Microfluidic Method for the Analysis of Non-aqueous Plant Cell Fractions
10:30		Pause
11:00	Marc Lagoin	Taylor-Aris dispersion of active particles
11:15	Ludovic Brivady	Optorheology of thin non-Newtonian fluid films
11:30	Jean-Baptiste Salmon	Water potential measurements using water clusters in PDMS microfluidic chips: application to directional drying
11:45	Zhansaya Aitkhozha	Microfluidics-based experimental study of the use of yield stress fluids to improve organic pollutant removal from contaminated soils
12:00	Abdi Mirgissa Kaba	Novel Confocal Absorbance-measurement Platform for Ultrahigh-throughput Screening of Enzyme Variants in Droplet-based Microfluidics
12:15	Léon Rembotte	Image-activated Organoid Cytometry and Acoustic Sorting
12:30		Repas + Posters
14:00	Adèle Varnier	TBA
14:15	Alisa Svirina	Broadband spectroscopy for visualising electrochemical reactions in transparent microfluidic devices
14:30	Samuel Marre	La microfluidique haute pression : De la thermodynamique à la biogéochimie, un outil pour l'étude des milieux fluides réactifs en pression et en température
14:45	Antoine Aubret	Control of colloidal crystallization under confinement with light
15:00	Manon Chargy	Développement d'une puce microfluidique de PCR quantitative pour suivre la dynamique d'une communauté synthétique de microorganismes ayant un potentiel effet de biocontrôle contre le mildiou de la vigne
15:15	Mélanie Gillard	High-throughput antimicrobial peptide screening using droplet microfluidics
15:30		pause
16:00	Julien Renaudeau	Osmotically-driven flows and passive loading in artificial phloem: a microfluidic approach
16:15	treefrog	TBA
16:30	Jacques Leng	3D Anderson localization of acoustic waves
16:45	Marine Garcia	Spectroelectrochemical Imaging in Microfluidic Electrochemical Devices: a pathway to reach the micromolar scale
17:00	Olga Fuentes	Life Cycle Assessment of Magnetite Production Using Microfluidic Devices: Moving from the Laboratory to Industrial Scale
17:15	Fatma Ercecek	In situ microfluidic investigations of APIs crystallization dynamics in scCO <sub>2</sub> : From thermodynamic equilibrium to growth kinetics
17:30		Table ronde
18:00		End

### Liste des posters

1	Léna Rasse	Explorer les mécanismes de dépollution des sols par les champignons
2	Fernanda Lopez Garcia	Development of an "Intestine-On-chip" to study infections by opportunistic pathogenic yeast <i>Candida</i> with advanced customized optical microscop
3	Baptiste Defaye	La PCR micro-fluidique : une technique facilitatrice dans la recherche prospective d'agents pathogènes
4	Anirban Jana	Super-deformability of induced pluripotent stem cell cysts
5	Naveen Vijayan Mekhileri	Wort Fermentation with Encapsulated Yeast to modify the Beer Flavour and Facilitate Filtration.