

08:30	Welcome pastry +Coffee	
09:00	Welcome Speech (Amphi Riquet)	
	Room 101	Room 102
	Session 1	Session 2
09:30	<p>Léo FONTANAUD “Role of the RNase E RNA binding mechanism in competition for their degradation and metabolism in <i>E. coli</i>”</p>	<p>Bernard ANNEREAU “Design of new mutant, synthetic or chimeric FeFe-hydrogenases catalyzing hydrogen synthesis using a synthetic biology approach”</p>
09:45	<p>Benjamin CASALE “Modeling and simulation of microbial population dynamics based on solving multivariable population balances using a Monte Carlo approach”</p>	<p>Julian SANCHEZ “Simulation tools for scaling up bioprocesses: A multiphysics modeling approach coupling metabolism and hydrodynamics”</p>
10:00	<p>Anthony CARNEIRO “Design and construction of a new isolated acetyl-CoA pool for terpene production in <i>S. cerevisiae</i> yeast”</p>	<p>Elodie FONSECA NASCIMENTO “Production of gelling EPS in aerobic pellet reactors and characterization”</p>
10:15	<p>Daphne GONNET “Mapping of subsites on the transglycosylation/hydrolysis partition in glycoside hydrolases: application to the enzymatic synthesis of glycosylated amino acids”</p>	<p>Bessam AZIZI “Generative AI for enzymes design”</p>
10:30	Break (30 min)	
11:00	<p>Janetiya WONGPRATHED “Carbon dioxide mineral sequestration by aqueous carbonation of power plant ash”</p>	<p>Simona SEBASTIANO “Development of a selective cell sorting process based on flotation in a microalgae/yeast consortium used for biofuel production”</p>
11:15	<p>Djazia ZOUICHE “BioEco Quorum quenching using novel bio-based materials to limit fouling in membrane bioreactors for a sustainable process”</p>	<p>Antoine BOY “Study of factors impacting the robustness of genetically modified strains of <i>C. necator</i> for hydrocarbon production in a bioreactor from CO₂”</p>
11:30	Lucas BERTI	Jean-Lou NICOLAS

	“Aerobic granular sludge biological process for effluent treatment and biopolymer production”	“Evaluation of materials and recycling streams for deconstructed concrete from the dismantling of structures in nuclear civil engineering”
11:45	Dorian GREGNANIN “Study and engineering of the bacterial microcompartment using 1,2-propanediol (Pdu BMC) for novel metabolic functions”	Kayode Olalere ODENIYI “Effect of various environmental pollutants on the metabolism and biophysical properties of microalgae”
12:00	Adriana PEREIRA CONTRERAS SÁNCHEZ “Characterization of the surface properties of the microalga <i>Chlorella vulgaris</i> to optimize a microfluidic concentration process”	Ralph KHADIGE “Eco-innovation for the production of polymers from sugar by-products”
12:15	Mathilda JOUVIN “ODYSSEUS: Optimization of carbon dioxide and oxygen mass transfer in bioreactors: a multi-scale study”	
12:30	Lunch Break (1h 30)	
14:00	Gabriel Dayo JATTO “Study of the effect of inclination on hydrodynamics and mass transfer in confined bubble flows using optical techniques”	Irene MARTÍNEZ MENÉNDEZ “Digital Twins for the Optimization of Bioprocesses”
14:05	Lucia LODATO MARTINEZ “Processes and Territories: Eco-designing resilient circular biomethane production chains”	Laura SIERRA HERAS “Accelerating the construction of synthetic cells through directed evolution”
14:10	Etienne PUJOS “Development of synthetic bacterial consortia via microfluidic tools”	Rafic EL KAZZI “Evaluation of the environmental performance of bio-based industrial technologies and products”
14:15	Mathilde BURCK “Mechanism of competition between RNAs for their degradation by RNase E and impact on the regulation of <i>E. coli</i> metabolism”	Nicolas LIENART “Transformation of biomass residues into biomaterials and products to move towards a sustainable national strategy - building the foundations of a life cycle analysis optimization platform”
14:20	Alejandro ORDONEZ-URRA “Study of the dimorphic transition of <i>Yarrowia lipolytica</i> under lipid production conditions: quantitative analysis of the distribution of	Tan DAI YUE “Design of immobilized cell membrane microreactors for intensified sustainable bioproduction”

	subpopulations with different morphotypes and accumulation capacities”	
14:25	<p>Vincent DULAU</p> <p>“Development of enzymatic pathways for the custom glycosylation of plant-derived active ingredients from sucrose”</p>	<p>Thao Anh NGUYEN</p> <p>“Understanding the impact of the physical and morphological determinants of filamentous fungi on the cellulolytic secretome for the degradation of agro-industrial by-products using single-cell to bioreactor approaches”</p>
14:30	<p>Yannick BERNARD-LAPEYRE</p> <p>“Optimization of the PURE expression system through automation and active learning”</p>	<p>Indira CHIMANLAL</p> <p>“Design of innovative solar-powered vacuum membrane distillation modules and energy-efficient systems”</p>
14:35	<p>Sergio FIGUEROA CARDONA</p> <p>“Modeling and optimization of biopesticide production”</p>	<p>Aur�lie LARGEAU</p> <p>“Capture and utilization of CO2 from agricultural methanization biogas through reaction with biomass ash”</p>
14:40	<p>Lucas DEVLIN</p> <p>“Metabolic adaptation mechanisms in <i>E.coli</i>”</p>	<p>Marvin RAMOS-HUE</p> <p>“Study of the link between cellular energetics and RNA degradation in <i>E. coli</i>”</p>
15:00	Break (30 min)	
15:30	Poster Session (1h15)	
16:45	Closing Speech	
18:00	Afterwork	