

2nd Annual Meeting of GDR2088 "BIOMIM" Scientific Programme

15 November 2021 (Monday)		
14:00 - 14:20	Opening Remarks	
14:20 - 15:30	Bioinspired Materials	Modelling and Simulation
	Natasha HEIL & Valentina PERRICONE - KN5 (14:20-14:50) Bioinspired materials for sustainable architecture and construction learning from Echinoids (Sea Urchins): new research avenue	Rogelio GOMEZ-PINEIRO - OR5 (14:20-14:40) Decoding an ambiguous EPR signal in PIAA10 LPMO enzyme by construction of active site models using DFT
	Hernando SALAPARE III - OR15 (14:50-15:10) Bioinspired self-cleaning surfaces for car interior applications	Chunmei LIU - OR4 (14:40-15:00) Comparison of topology optimization based on classical and bio-inspired objectives
	Salomé BASSET - OR16 (15:10-15:30) Effect of laser texturing environment media on wetting of biomimetic superhydrophobic surfaces designed by femtosecond laser pulses	Jordan Drapin - OR3 (15:20-15:20) Biomimetism and hexapodal gait, a first step in ant
15:30 - 15:45	Coffee Break	
15:45 - 16:45	Catalysis	Displacement and Movement
	Manon PUJOL - OR8 (15:45-16:05) Engineering of a copper metalloenzyme for new-to-Nature reactivities	Swaminath VENKATESWARAN & Damien CHABLAT - KN2 (15:45-16:15) Comparison of three Motion Generators for a 3-SPS-U Tensegrity Mechanism
	Olfa ZAYENE - OR6 (16:05-16:25) Cooperativity between hydrogen bonding and anion- π interaction in anion recognition and catalysis	Weijia WANG - OR9 (16:15-16:35) How individual perceptual and cognitive factors affect collective motion in a data-driven fish school model
	Jonathan BACHIR - OR7 (16:25-16:45) Combining Biopolymer and Metal-Organic Framework for Protein Encapsulation	

16 November 2021 (Tuesday)		
10:00 - 12:00	Biomaterials A	Structure A
	Christophe DROUET - KN3 (10:00-10:30) Calcium phosphate: from biominerals to biomaterials	Olivier FELIX - KN1 (10:00-10:30) Anisotropic properties of bio-inspired nanocomposite materials
	Bernd SCHÖLLHORN - KN4 (10:30-11:00) Fluorescence of natural biomatter in Asian paper wasp nests	Yu WU - OR18 (10:30-10:50) Cubosomal lipid nanoparticles encapsulating plasmalogens with neuroprotective effects
	Julius SEFKOW-WERNER - OR11 (11:00-11:20) In situ and ex situ characterization of biomimetic platforms used for the analysis of heparan sulfate-mediated BMP biological activity	Manon SAGET - OR2 (10:50-11:10) Surface engineering of stainless steel to limit dairy fouling adhesion
	Ana FERRANDEZ-MONTERO - OR10 (11:20-11:40) 4D Smart electroactive porous scaffold as innovative cell culture platform	
	Alicia Alejandra MIER GONZALEZ - OR20 (11:40-12:00) Solid-Phase Synthesis of Molecularly Imprinted Polymer Nanogels- Synthetic Antibody Mimics for the Recognition of Protein Biomarkers	
12:00 - 14:00	Lunch Break	
14:00 - 15:30	Biomaterials B	Structure B
	Tristan BAUMBERGER - KN6 (14:00-14:30) Structural Hints from the study of Syneresis of Calcium Alginate hydrogels	Vincent FORGE - KN7 (14:00-14:30) Protein self-assembly for bio-inspired electronics
	Mathilde GUERIN - OR12 (14:30-14:50) Peptide-decorated bio-inspired apatite nanoparticles: towards wound healing applications	Xxx SEDAO - OR 17 (14:30-14:50) Multi-wavelength LIPSS generation on titanium alloy and comparative study of their effect on cell adhesions
	Jean-Yves RUNSER - OR13 (14:50-15:10) Micropatterning Controlled By Enzyme Assisted Self Assembly Through a Liesegang-like Process	Anne-Sophie VAILLARD - OR1 (14:50-15:10) Elaboration of transparent, robust and repellent surfaces based on molded and lubricated PDMS
	Anissa DIEUDONNÉ - OR14 (15:10-15:30) Bioinspired grinding for anaerobic digestion	Quentin LEGRAND -OR19 (15:10-15:30) Anisotropic wetting behavior on bioinspired textured surfaces
15:30 - 15:45	Coffee Break	
15:45 - 17:00	GDR2088 Business Meeting, Closing and Awarding Ceremonies for the Graduate Student Awards	