

1st Annual Meeting of GDR 2088 "BIOMIM"

First Name	Last Name	Title of Presentation	University/Institution	CODE	Presentation	Session	Presentation Schedule	Venue
Soizic	Prado	Bio-inspired isolation of compounds disrupting algal biofilms: an innovative approach for the identification of original and eco-compatible antifoulings	MCAM UMR 7245	A-INV-01	Invited Talk	GDR-A1	14 Oct (08:00-08:25)	Baie des Anges B
Claire	Fave	Electrochemical O2 activation with metal porphyrins: a powerful and sustainable strategy for organic substrates oxidation	Université de Paris	A-OR-01	Oral	GDR-A1	14 Oct (08:25-08:40)	Baie des Anges B
Julien	Kelber	Bioinspired soft-mechanochemical control of BINOL molecular dihedral angle conformation within a 3D polymeric material	Unistra-CNRS	A-OR-02	Oral	GDR-A1	14 Oct (08:40-08:55)	Baie des Anges B
Miguel Leonardo	Martinez Mendez	Ultrafast Deposition of Bioinspired Polydopamine Coating to Immobilize Catalysts on Polymer Foams for Flow Chemistry Applications	CNRS	A-OR-03	Oral	GDR-A1	14 Oct (08:55-09:10)	Baie des Anges B
Jean-Philippe	Michel	From Langmuir Blodgett to grafted films	Université Paris Saclay	A-OR-06	Oral	GDR-A1	14 Oct (09:10-09:25)	Baie des Anges B
Jean	Muller	Towards the fabrication of bio-inspired nanocomposite materials	University of Strasbourg	A-OR-16	Oral	GDR-A1	14 Oct (09:25-09:40)	Baie des Anges B
Marc	Robert	Bioinspired molecular and hybrid catalysts for CO2 (and other small molecules) electro- and photo-reduction	Université de Paris	A-INV-02	Invited Talk	GDR-A2	14 Oct (08:00-8:25)	Masséna
Alexandre	Hernandes Barrozo	Nickel thiosemicarbazone catalysts for H2 production: mechanism and strategies for improvement.	Aix-Marseille Université	A-OR-07	Oral	GDR-A2	14 Oct (08:25-8:40)	Masséna
Jean Jacques	Godon	Anaerobic digestion: what if we really copy the animals' digestive system?	INRAE	A-OR-10	Oral	GDR-A2	14 Oct (08:40-8:55)	Masséna
Garrouste	Romain	Can old bugs helps with bio-inspiration : toward a palaeo-inspiration using fossil insects and palaeobiology	MNHN	A-OR-11	Oral	GDR-A2	14 Oct (08:55-09:10)	Masséna
Olga	Iranzo	Engineering Bioinspired Copper(II) Catalytic Sites in Pre-organized Peptides for Oxidative Transformations in Aqueous Media	CNRS / Aix-Marseille Université	A-OR-13	Oral	GDR-A2	14 Oct (09:10-09:25)	Masséna
Hassan	Saad	A simple approach for the elaboration of bulk strong and tough nacre-like alumina	INSA Lyon	A-OR-14	Oral	GDR-A2	14 Oct (09:25-09:40)	Masséna
Eduardo	Blanco	Ecosystem-level biomimicry and regenerative urban planning: Linking natural ecosystems functioning and urban projects	MNHN	A-OR-15	Oral	GDR-A2	14 Oct (09:40-09:55)	Masséna

Santiago	Arroyave-Tobon	Sheep elbow kinematics : towards bioinspired mechanical joints	Aix-Marseille Université	C-INV-02	Invited Talk	GDR-C	14 Oct (08:00-08:25)	Nations
Anthony	Herrel	Functional morphology, limbless locomotion and bio-inspired robotics	CNRS/MNHN	C-INV-01	Invited Talk	GDR-C	14 Oct (08:25-08:50)	Nations
Ilya	Brodoline	Full 3D printed hexapod robots with energy efficient joints	Aix Marseille Université	C-OR-01	Oral	GDR-C	14 Oct (08:50-09:05)	Nations
Julien	Serres	A bio-inspired optical compass for robotic applications	Aix Marseille University	C-OR-02	Oral	GDR-C	14 Oct (09:05-09:20)	Nations
Vaibhav	Sharma	Active colloids interacting with biomimetic membranes	University of Strasbourg	C-OR-03	Oral	GDR-C	14 Oct (09:20-09:35)	Nations
Virginie	Dulong	Hydrogels based on polysaccharides obtained by enzymatic reaction	Université Rouen Normandie	D-INV-01	Invited Talk	GDR-D	14 Oct (14:00-14:25)	Masséna
Julius	Sefkow-Werner	Heparan sulfate co-immobilized with cRGD ligands and BMP2 on biomimetic platforms promotes BMP2-mediated osteogenic differentiation	Grenoble INP	D-OR-01	Oral	GDR-D	14 Oct (14:25-14:40)	Masséna
Mathilde	Stricher	Volvox carteri, a versatile and promising material for tissue engineering	Université de Technologie de Compiègne	D-OR-04	Oral	GDR-D	14 Oct (14:40-14:55)	Masséna
Christophe	Drouet	Biomimetic calcium phosphate apatites as a bioactive tool for tissue repair and nanomedicine	Université de Toulouse	D-OR-02	Oral	GDR-D	14 Oct (14:55-15:10)	Masséna
Julien	Chaves-Jacob	Bio-inspiration of bone structure to alleviate mechanical parts	Aix Marseille Univ, CNRS, ISM	D-OR-05	Oral	GDR-D	14 Oct (15:10-15:25)	Masséna
Lydie	Ploux	Microbial response to materials and substances inspired from the nature for applications in health	CNRS / INSERM / university of Strasbourg	D-OR-06	Oral	GDR-D	14 Oct (15:25-15:40)	Masséna
Ali	Makky	Mussel-inspired polydopamine nanoparticles: A multifunctional drug delivery platform with bimodal activity for cancer therapy	Université Paris-Saclay, Fac. of Pharmacy	E-OR-01	Oral	GDR-E	14 Oct (10:30-10:45)	Nations
Marc	Maresca	Peptidomimics bioinspired from Antimicrobial Peptides to fight antibiotic resistance.	Aix Marseille Université	E-OR-02	Oral	GDR-E	14 Oct (10:45-11:00)	Nations
Beatrice	Gerland	Synthesis and Assembly of Functionalized Oligonucleotides as Protease Mimics	CNRS - Université Toulouse III	E-OR-03	Oral	GDR-E	14 Oct (11:00-11:15)	Nations
Franck	Cleymand	Bioinspired green scaffolds for tissue engineering and regenerative medicine.	UMR 7198 CNRS - Université de Lorraine	D-OR-03	Oral	GDR-E	14 Oct (11:15-11:30)	Nations

Aurelia	Poerio	Sustained release of neurotrophic factors for the innervation of a 3D bioprinted skeletal muscle construct	Université de Lorraine	A-OR-09	Oral	GDR-E	14 Oct (11:30-11:45)	Nations
Florent	Le Guern	Enhancement of photobactericidal activity of Chlorine-e6 grafted on cellulose nanocrystals by covalent coupling of Polymyxin B.	Université Versailles SQY, Université Paris Saclay	F-INV-01	Invited Talk	GDR-F	14 Oct (08:00-08:25)	Louis XVI
Clemence	Sicard	Biological Entities and Metal-Organic Frameworks for the design of novel bio-hybrid materials	Université de Versailles Saint-Quentin-en-Yvelines	F-INV-02	Invited Talk	GDR-F	14 Oct (08:25-08:50)	Louis XVI
Gilles	Clavier	LbL films with clickable and Fluorescent Polymer Chains for Bacteria Detection	Université Paris-Saclay, ENS Paris-Saclay, CNRS	F-OR-01	Oral	GDR-F	14 Oct (08:50-09:05)	Louis XVI
Yvan	Rahbé	CFI-Cuticle, an interdisciplinary team-project on the biomimetics of insect Cuticle: the case study of the hemipteran stylet — a chitin-protein polymeric assemblage, a biosyringe & drilling device, a micro-mechanical concept and a two-channel high	CNRS	A-OR-08	Oral	GDR-F	14 Oct (09:05-09:20)	Louis XVI
Corinne	Nardin	Functional self-assembly of biomacromolecules and of their polymer biohybrids for applications in the biomedical, environmental and energy fields	Université de Pau et des Pays de l'Adour	A-OR-05	Oral	GDR-F	14 Oct (09:20-09:35)	Louis XVI
Loïc	Jierry	Localized Enzyme-Assisted Self-Assembly: from Catalytic Flow Chemistry to Autocatalytic Hydrogel Growth	University of Strasbourg/ECPM	A-OR-04	Oral	GDR-F	14 Oct (09:35-09:50)	Louis XVI
Caroline	Fradin	Templateless electrodeposition of fluorinated conducting polymer nanotubes on mesh substrates	Université Côte d'Azur	G-OR-03	Oral	GDR-GJ	14 Oct (14:00-14:15)	Baie des Angés A
Miora	Rakotoarisoa	Structural Transitions of Cubic Membrane Mimetics and Lyotropic Liquid Crystalline Phases upon Encapsulation of Fish Oil and Curcumin	Université Paris Saclay	G-OR-02	Oral	GDR-GJ	14 Oct (14:15-14:30)	Baie des Angés A
Elora	Bessot	3D structuration of liquid crystal phases for biomimetic bone for tissue formation	Sorbonne Université	G-OR-05	Oral	GDR-GJ	14 Oct (14:30-14:45)	Baie des Angés A
Elisabeth	Riera	Toward a “biogeoinspiration” of the artificial reefs’ design	University Cote d'Azur	G-OR-07	Oral	GDR-GJ	14 Oct (14:45-15:00)	Baie des Angés A
Thomas	Bizien	Versatile offer at swing beamline for “soft matter” exploration	Synchrotron Soleil	G-INV-01	Invited Talk	GDR-GS	14 Oct (10:30-10:55)	Masséna
Serge	Berthier	Bio-inspiration at the nanoscale: Examples and replication of natural multi-scale and multifunctional structures	Institut des NanoSciences de Paris - CNRS-Sorbonne Université	G-OR-04	Oral	GDR-GS	14 Oct (10:55-11:10)	Masséna
Ariane Jalila	Simaan	Bioinspired copper complexes for oxidative biomass degradation	CNRS / Aix Marseille Université	G-OR-06	Oral	GDR-GS	14 Oct (11:10-11:25)	Masséna
Jean-Yves	Runser	Spatiotemporal Control Through Localized Enzyme-Assisted Self-Assembly In Host Hydrogels	Université de Strasbourg	G-OR-01	Oral	GDR-GS	14 Oct (11:25-11:40)	Masséna

Stéphane	Valette	Tribology and Engineering of Bioinspired surfaces	Ecole Centrale de Lyon	A-OR-12	Oral	GDR-GS	14 Oct (11:40-11:55)	Masséna
Yanxia	Hou	Biomimetic Optoelectronic Nose for Odor Analysis	Univ. Grenoble Alpes-CEA-CNRS	H-INV-01	Invited Talk	GDR-H1	14 Oct (10:30-10:55)	Louis XVI
Latifa	Fakri-Bouchet	Experimental Breast Phantom Models for assessment of Early Breast Cancer Detection using Microwave Imaging	Lyon 1, Claude Bernard	H-OR-01	Oral	GDR-H1	14 Oct (10:55-11:10)	Louis XVI
Claude	Forano	Insights into the Structure and the Electrochemical Reactivity of Cobalt-Manganese Layered Double Hydroxides: Application to H ₂ O ₂ Sensing and glucose biosensing	Université Clermont Auvergne	H-OR-02	Oral	GDR-H1	14 Oct (11:10-11:25)	Louis XVI
Camille	Raillon	Aptamer-functionalized solid-state nanopores for the specific detection of proteins	CEA	H-OR-03	Oral	GDR-H1	14 Oct (11:25-11:40)	Louis XVI
Nathan	Meyer	Machine learning to improve the sensing of biomolecules by biomimetic nanopore	Univ Montpellier	H-OR-04	Oral	GDR-H2	14 Oct (14:00-14:15)	Versailles
Emmanuelle	Jacquin-Joly	Insect odorant receptors: promising targets for artificial nose	INRAE-CNRS	H-OR-05	Oral	GDR-H2	14 Oct (14:15-14:30)	Versailles
Marielle	El Kazzy	Odorant binding protein based biomimetic optoelectronic nose	Univ. Grenoble Alpes	H-OR-06	Oral	GDR-H2	14 Oct (14:30-14:45)	Versailles
Sébastien	Balme	Single biomimetic nanopore: from sensing to a new concept for understanding chemistry under confinement	Université de Montpellier	H-OR-07	Oral	GDR-H2	14 Oct (14:45-15:00)	Versailles
Ilaria	Sorrentino	Sensor-bioinspired based on laccase for contaminants biosensing	Université Grenoble Alpes-CNRS	H-OR-08	Oral	GDR-H2	14 Oct (15:00-15:15)	Versailles
Angelina	Angelova	Biomimetic Nanostructures Formed by Self-Assembly of Nonlamellar Lipids	Université Paris-Saclay / CNRS	G-P-01	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Eric	Cattan	Prototype of micro-hand based soft micro-transducers for medical applications	UPHF	A-P-02	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Mathieu	Colin	A diptera-inspired vibrating-wing nano drone	UPHF	C-P-01	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Patrick	Di Martino	Identification of self-assembly prone sequences in chaperone-usher fimbrial subunits	CY Cergy Paris Université	A-P-01	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Claude	Forano	Enzyme encapsulation in Water/Water Pickering emulsion vesicles stabilized by Layered Double Hydroxides nanoparticles.	Université Clermont Auvergne	G-P-02	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles

Tristan	Georges	Understanding the early stages of biological apatite nucleation through advanced hyperpolarized NMR techniques	Sorbonne Université	A-P-04	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Jean	Le Penec	Biomimetic approach to study the role of glycosaminoglycan in the regulation of growth factor signaling	CEA - Institut de Recherches Interdisciplinaires de Grenoble (IRIG)	A-P-05	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Maylis	Orio	Experimental and theoretical studies of the electrocatalytic hydrogen production by a thiosemicarbazone metal complexes	Aix-Marseille University / CNRS	A-P-03	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Leo	Poughon	Bio-inspired Use of skylight polarization to measure heading for automotive industry	AMU	F-P-01	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Julien	Schmitt	Cellulose nanofibrils based hydrogels and emulsions: comparison between the structural and rheological properties	Saint-Gobain Research Provence	G-P-03	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Xxx	Sedao	Bio-Inspired Surface Engineering through Ultrafast Laser Patterning for Implants and Textiles	University of Lyon, Jean Monnet University	D-P-02	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles
Adrien	Yepseu	Synthesis of oleylamine and hexadecylamine capped-PbS nanoparticles using new homoleptic lead (II) thiosemicarbazone complexes as single source precursors	University of Lorraine	D-P-01	Poster	GDR-POSTER	13 Oct (16:15-18:15)	Versailles