

Bio3Pharm French – Portuguese Symposium

From molecular
biosciences to therapies

September 13-15 > 9am-5pm

*European Institute of Chemistry and
Biology, Pessac*



Bio3Pharm - French-Portuguese symposium

on Biomaterials, Biomolecules, Biophysics and Pharmaceutical sciences: From molecular biosciences to therapies

in partnership with : Polytechnic Institute of Guarda - University of Beira Interior - ULisboa

September 13-15th, 2023 - IECB, 2 Rue Robert Escarpit, 33600 Pessac

Wednesday, September 13th	Thursday, September 14th	Friday, September 15th
<p>10:00 - 10:30 Participants arrival</p> <p>10:30 Opening ceremony</p> <p>Philippe BARTHELEMY - Director ARNA Lab - INSERM</p> <p>11:00 Plenary conferences</p> <p>Chair : Gilmar SALGADO Associate Professor in Chemistry and Biology - IECB</p> <p>Keynote: Gilles GUICHARD Director of the Sciences and Technologies Department - CNRS</p> <p>12:00 - 13:30 Lunch</p>	<p>Session 2. BIOMOLECULES Chaired by Dr Salgado (IECB)</p> <p>9:00 Conferences Cameron MACKERETH - Research Director IECB Carla CRUZ - Professor in Chemistry - Health Sciences UBI</p> <p>10:15 Coffee break</p> <p>10:45 - Conferences Samir AMRANE - Researcher IECB</p> <p>Alexandra PAULO - Professor in Medicinal Chemistry Faculty of Pharmacy - Ulisboa</p> <p>11:30 - 12:30 Oral presentations Coralie ROBERT - PhD in Chemistry and physics Marie-Lise JOBIN - Postdoctoral researcher Israa ALJNADI - PhD in Medicinal Chemistry - Ulisboa Joana FIGUEIREDO - PhD in Chemistry - UBI</p> <p>12:30 - 14:00 Lunch</p>	<p>Session 4. PHARMACEUTICS Chaired by Dr Barthelemy (ARNA)</p> <p>9:00 Conferences Jeanne CHAIN - Researcher ARNA Lab Andre MOREIRA - Professor in Biochemistry - IPG</p> <p>10:15 Coffee break</p> <p>10:45 - Conferences Edouard BADARAU - Associate Professor in Medicinal Chemistry CBMN</p> <p>Paula COUTINHO - Professor in Bioscience and Biotechnology School of Health IPG</p> <p>11:30 - 12:45 Oral presentations Faith KIVUNGA- PhD in Chemistry and technology for life Tristan GIRAUD - Postdoctoral researcher Ana Filipa NUNES - MSc IPG Adrien DENIZET - PhD in Organic chemistry Jorge LOUREIRO - PhD Natural Resources Potential and Innovation Centre - IPG</p> <p>12:45 Closing ceremony</p>
<p>Session 1. BIOMATERIALS - Chaired by Dr Le Nihouannen (BioTis)</p> <p>13:30 Conferences Joelle AMEDEE - Research Director BioTis & Nicolas L'Heureux - Research Director INSERM Maximiano P. RIBEIRO - Professor in Biomaterials - IPG</p> <p>15:15 Coffee break</p> <p>15:45- 17:00 Oral presentations Gaëtan ROUDIER PhD in Cell Biology and Physiopathology Ana Rita RAFAEL - MSc IPG Francisca BARBOSA - MSc IPG Justine COUVEZ - PhD in Organic Chemistry Otilia GONCALVES - MSc IPG</p>	<p>Session 3. BIOPHYSICS Chaired by Dr Habenstein (CBMN)</p> <p>14:00 Conferences Isabel ALVES - Research Director CBMN Hugo A.L. FILIPE - Researcher CPIRN-IPG</p> <p>15:15 Coffee break</p> <p>15:45 - 16:45 Oral presentations Loïc DELCOURTE- PhD in Chemistry Léon REMBOTTE - PhD in Chemistry André MIRANDA - PhD in Biochemistry - UBI Caique D'ANGELO - MSc IPG</p> <p>17:00 Cocktail</p>	

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Sep 13 - 15th 2023

Wednesday, September 13th

Session 1. BIOMATERIALS Chaired by Dr Damien Le Nihouannen (BioTis)

Biomaterials and innovation in tissue engineering

Biomaterials for skin regeneration

Development and first use of a completely biological thread-based vascular graft as an arteriovenous shunt in sheep

Characterization extracellular vesicles derived from prostate cancer cells

3D Printing materials for microchip engineering

Nanovectors for temperature- and light-activated release of therapeutic agents and monitoring by magnetic resonance imaging

Biomaterials for cell encapsulation

Thursday, September 14th

Session 2. BIOMOLECULES Chaired by Dr Gilmar Salgado (IECB)

Molecular study of RNA binding by splicing factor domains

Bioinspired nucleic acids G-quadruplexes

G-quadruplex structures in HIV-1

How can we selectively target oncogene promoter G4s with drug-like small molecules?

Atomic scale study of grapevine dieback by Nuclear Magnetic Resonance spectroscopy

Illuminating the plasma membrane: Innovative imaging microscopy techniques for investigating the membrane receptor dynamics

Development of G4-helicase interaction inhibitors for cancer therapy

G-quadruplex and small molecules: A dual approach for anticancer strategy

Session 3. BIOPHYSICS Chaired by Dr Birgit Habenstein (CBMN)

The role of the lipid environment in GPCR activity: in vitro and in cellulo approaches

Molecular Dynamics simulations: from model systems to biotechnological applications

Architecture of a bacterial signalosome revealed by magic-angle spinning NMR-based integrative structural biology

Acoustic sorting of spheroids using fast image processing

Non-canonical secondary structures in B-MYB proto-oncogene: a biophysical overview

Green Synthesis of silver nanoparticles

Friday, September 15th

Session 4. PHARMACEUTICS Chaired by Dr Philippe Barthelemy (ARNA)

Aptamers for Drug delivery Systems: more than targeting agents

Gold-Based Nanomaterials for Cancer Therapy

Algae-based therapeutics systems

Lipid Conjugated Oligonucleotides for Anticancer Therapeutic Application

ATP-responsive aptamers for liposome controlled release

Colorwound: the history behind an entrepreneur program

Total synthesis of Securinega alkaloids and study of their biological activities

Polymeric Nanoparticles for drug delivery