Bio3Pharm
French - Portuguese Symposium
From molecular biosciences to therapies
September 13-15 > 9am-5pm
European Institute of Chemistry and Biology, Pessac
### Session 1. BIOMATERIALS - Chaired by Dr Le Nihouannen (BioTis)

**10:00 - 10:45**
- Conference: Joelle AMEDEE - Research Director BioTis & Nicolas L'Heureux - Research Director INSERM
- Conference: Maximiano P. RIBEIRO - Professor in Biomaterials - IPG

**11:00 - 11:15**
- Coffee break

**11:45 - 12:00**
- Oral presentations: Gaëtan ROUDIER - PhD in Cell Biology and Physiopathology
- Oral presentations: Ana Rita RAFAEL - MSc IPG
- Oral presentations: Francesca BARBOSA - MSc IPG
- Oral presentations: Justine COUVEZ - PhD in Organic Chemistry
- Oral presentations: Otilia GONCALVES - MSc IPG

**12:00 - 13:30**
- Lunch

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

**9:00 - 9:15**
- Conference: Cameron MACKERETH - Research Director IECB
- Conference: Carla CRUZ - Professor in Chemistry - Health Sciences UBI

**9:45 - 10:00**
- Coffee break

**10:00 - 10:15**
- Conference: Samir AMRANE - Researcher IECB

**10:15 - 10:30**
- Conference: Alexandra PAULO - Professor in Medicinal Chemistry
- Conference: Marie-Lise JOBIN - Postdoctoral researcher
- Conference: Israa ALJNADI - PhD in Medicinal Chemistry - ULLisboa
- Conference: Joana FIGUEIREDO - PhD in Chemistry - UBI

**11:30 - 12:30**
- Oral presentations: Coralie ROBERT - PhD in Chemistry and physics
- Oral presentations: Marie-Lise JOBIN - Postdoctoral researcher
- Oral presentations: Israa ALJNADI - PhD in Medicinal Chemistry - ULLisboa
- Oral presentations: Joana FIGUEIREDO - PhD in Chemistry - UBI

**12:30 - 14:00**
- Lunch

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

**14:00 - 14:15**
- Conference: Isabel ALVES - Research Director CBMN

**14:30 - 14:45**
- Coffee break

**15:00 - 15:15**
- Conference: Hugo A.L. FILIPE - Researcher CPIRN-IPG

**15:30 - 15:45**
- Coffee break

**15:45 - 16:30**
- Oral presentations: Loïc DELCOURTE - PhD in Chemistry
- Oral presentations: Léon REMBOTTE - PhD in Chemistry
- Oral presentations: André MIRANDA - PhD in Biochemistry - UBI
- Oral presentations: Caïque D’ANGELO - MSc IPG

**17:00**
- Cocktail
## 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

## 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

## 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