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[bySIBPA] XXVI Congresso SIBPA

Comunichiamo con grande piacere ai soci che il sito del XXVI Congresso SIBPA è aggiornato <https://www.sibpa.it/CongressoNazionaleSIBPASanMiniato/>.

La SIBPA offre 18 borse di studio, per studenti e ricercatori non strutturati, che copriranno le spese d'iscrizione al Congresso ed il soggiorno presso strutture a cura dell'organizzazione del Congresso. Le richieste di borsa di studio devono pervenire entro il 20 giugno 2022 all'indirizzo segreteria@sibpa.it contestualmente all'invio dell'Abstract e del proprio CV.

Per coloro che non sono soci, è richiesta una lettera di presentazione, sottoscritta da un Socio SIBPA. La selezione delle Borse sarà fatta dal Comitato Scientifico, che potrà avvalersi anche del contributo di esperti esterni al Comitato.

L'esito sarà comunicato per e-mail ai vincitori entro il 15 luglio 2022.

Ai vincitori delle borse è comunque richiesta l'iscrizione alla Società almeno per l'anno 2022.

Speriamo di rivederci numerosi a San Miniato!



[CfPo] PhD Position at Chemistry Doctoral School of the University of Bordeaux

G-protein coupled receptors (GPCRs) are membrane proteins implicated in several physiological and pathological processes and are the target of about 50% of the drugs in the market. Because they are immersed in the lipid membrane, their function can be greatly impacted by the lipid membrane composition. In addition, several pathologies are associated with dysfunctions in lipid membrane composition as is the case of psychiatric disorders and cancer where altered levels in polyunsaturated fatty acids (PUFAs) and cholesterol, have been respectively associated. The role of lipids in GPCR activation and signaling is far from being understood.

The Dopamine receptor D2 (D2R) is an important target of antipsychotics (APs) used for the treatment of psychiatric disorders such as schizophrenia and depression. Patients suffering from schizophrenia have decreased levels of PUFAs not only in the brain where the D2R is expressed but also in peripheral tissues. Moreover, the use of supplementary PUFA diet in treatments has helped decreased some of the symptoms associated with such disorders. With that in mind, the working hypothesis of our group is that the lipid environment and more specifically the level of lipid polyunsaturation should alter the pharmacology of the D2R.

Preliminary data obtained by the group have revealed that PUFA membrane levels can impact both D2R activation and signaling events and act as allosteric modulators. We would like now to address the question about the molecular mechanisms that are responsible for such PUFA lipid impact. To address this question we are planning to use state of the art biophysical and biochemical approaches.

Supervisors: Isabel Alves and Estelle Rascol (i.alves@cbmn.u-bordeaux.fr)

Location: Institute of Chemistry and Biology of Membranes

Candidate profile: The candidate should be motivated and rigorous and have a master's or engineering degree. The student must be familiar with protein biochemistry or biophysics.



[CONF] 2nd Biology for Physics Conference

Dear Researcher and Colleague,

The 2nd Biology for Physics conference entitled "Biological Evolution and Nonequilibrium Physics: Close Encounters" (<https://www.biologyforphysics.org/>) to be held in Barcelona on the 3rd-7th July 2022 is now open for submissions.

Registrations for participants will open on the **2nd of May 2022**. Please, check here <https://www.biologyforphysics.org/deadlines/> for deadlines.

The conference is organized under the patronage of the Division of Physics for Life Sciences from the European Physical Society and will be held at the Barcelona Biomedical Research Park (PRBB) on the beautiful Barcelona seashore. "Nothing in Biology Makes Sense Except in the Light of Evolution" this sentence has been credited to the evolutionary biologist Theodosius Dobzhansky (1900-1975) and raises the question of the role of physics in evolution. The 2nd Bioforphys conference will be focused on the most general aspects of evolution from the perspective of physics. We aim to set up a wide-open interdisciplinary forum of researchers to discuss ideas regarding how our current knowledge of physics can contribute to understanding evolution in biology, from ancestral chemistry to molecular, cellular, and organismic entities. Evolution stands out as one of the current most exciting research topics with broad implications in all modern sciences, from Darwinism in biology to evolutionary diseases and pandemics, passing through the most varied spectrum of fundamental problems in physics and mathematics. We expect to organize a fantastic interdisciplinary and inspiring conference with the most relevant topics and wonderful speakers in the area. We expect to see you all in Barcelona!!

In addition to the invited talks, the conference will select a number of oral contributions on the basis of scientific originality and interest, plus ample time devoted to poster exhibitions by participants and researchers to promote exchanges and interaction between them and our invited speakers. Three prizes will be awarded to the best posters. The conference is a great opportunity for young researchers who want to have a broad overview of the current most relevant topics in evolution that are reshaping our way to understand the physical and biological world.

All sessions will be plenary and on-site. We can only accept up to 150 participants to this event and therefore we encourage you to register as soon as the



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registration is open (<https://www.biologyforphysics.org/registration>) and submit an oral or a poster contribution by **May 15th, 2022** at the latest. Contributions and participation will be accepted according to the order of registration until the maximum number of participants (150) is reached.

With kindest regards

Felix Ritort (Conference Chair and Division of Physics for Life Sciences, EPS)

[CONF] MOSBRI 2022

MOSBRI (Molecular-Scale Biophysics Research Infrastructure; www.mosbri.eu) is a geographically distributed, scientifically and technologically integrated consortium, combining the distinct instrumentation and expertise of 13 academic centres of excellence and 2 industrial partners from 11 different European countries, coordinated by Institut Pasteur (Paris, France) and funded by the Horizon 2020 programme of the European Commission.

The MOSBRI 2022 conference, that will take place in Paris on June 20-22 (<https://www.mosbri.eu/events/conferences/paris-2022/>), showcases how our integrated network can tackle an unusually wide variety of life science research questions by exploring the new cutting edge developments in molecular biophysics. There will also be two poster sessions, allowing delegates, regardless of their proficiency in the field, to present their research, and to network and discuss with MOSBRI partners. Registrations and abstract submissions are now open at <https://www.mosbri.eu/events/conferences/paris-2022/registration/> (deadline **20th of May 2022**).

Patrick ENGLAND

Scientific Coordinator of the MOSBRI infrastructure

[CS] FEBS Advanced Course Biological Surfaces and Interfaces

Dear Colleagues and Young Scientists:

We are excited to announce that the full program for the [FEBS Advanced Course Biological Surfaces and Interfaces: Forces at biological interfaces](#) is now available online. The meeting will take place in San Feliu de Guixols, Catalunya, Spain from June 19 – June 24, 2022.

We would like to point out that we have reserved at least 14 slots for talks to be selected from the submitted poster abstracts. To be considered for a contributed talk, you must submit your abstract and be registered by **May 1st**.

