SIBPA
Società Italiana di Biofisica Pura e Applicata
fondata nel 1973

- **Calls for Positions [CfPo]**
- **Congresses [CONGR]**
- **Conferences/Meetings [CONF/MT]**
- **Workshops/Symposia [WS/SY]**
- **Courses and Schools/Webinars [CS/WB]**
- **Call for papers/applications [CfP/A]**
- **EBSA News associated with biophysics [Ebsa]**
- **Media (publications, communication) [Mpc]**
- **Events sponsored a/o supported by SIBPA [bySIBPA]**

[bySIBPA] 50 years of SIBPA: a journey through the molecules of life at CMD30-FISMAT2023

Vi ricordiamo che è possibile registrarsi alla CMD30 - FisMat 2023 https://eventi.cnism.it/cmd30-fismat, in cui ci ritroveremo al minicolloquium "50 years of SIBPA: a journey through the molecules of life".
Il programma è già online:
 https://eventi.cnism.it/cmd30-fismat/submission/calendar.
Entro il 16 luglio si può usufruire della registrazione scontata.

[bySIBPA] 48th Course: Memos for biophysics into the future

A breve vi comunicheremo i dettagli della scuola di biofisica di Erice che si terrà dal 16 al 22 ottobre 2023, diretta da Mauro Dalla Serra, Alberto Diaspro e Cristiano Viappiani.

ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
1963–2023
60th ANNIVERSARY OF ACTIVITIES
SUMMARY
OF THE 2023 COURSES — ERICE

All Courses are sponsored by the World Federation of Scientists (WFS), the Sicilian Regional Government (ERS), the Italian Ministry of Education, University and Scientific Research and the Galileo Galilei Foundation (GGF). Some of the Courses are under the sponsorship of the Italian Ministry of Foreign Affairs, the Italian Ministry of Health, the North Atlantic Treaty Organization (NATO), the American National Science Foundation (NSF), the Italian National Research Council (CNR), the Weizmann Institute of Science, the European Physical Society (EPS), the Italian National Institute for Nuclear Physics (INFN), the Enrico Fermi Historical Museum of Physics and Study and Research Centre, the World Wildlife Fund (WWF), the Commission of the European Communities (CEC), some of the main Italian and foreign Universities and Research Centres, and the World Laboratory

INTERNATIONAL SCHOOL OF BIOPHYSICS «ANTONIO BORSELLINO»
48th Course: *Memos for biophysics into the future: Lightness, quickness, exactitude, visibility, multiplicity, and consistency*
Directors: M. DALLA SERRA – A. DIASPRO – C. VIAPPIANI
16 – 22 October 2023

50 years
SIBPA
Società Italiana di Biofisica Pura e Applicata
1973 - 2023

www.sibpa.it

www.facebook.com/SIBiofisicaPA/

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www.sibpa.it/youtube

[bySIBPA] Workshop in honor of Martin Chalfie #SIBPA50

[WB] Biophysics for Global Health and Sustainability

The UNESCO/UN/ISC coordinated International Year of Basic Sciences for Development (IYBSSD2022.org), staging a 24 Hour Webathon on JUNE 5TH 2023. Within this, IUPAB has organized a Session entitled: Biophysics for Global Health and Sustainability. https://www.iybssd2022.org/en/dt_team/biophysics-for-global-health-and-sustainability/ at 10:00 - 11:30 GMT.

Please do advertize the event and forward details to potentially interested colleagues. Every session will be recorded and can be retrieved after the Live event.

[CfPo] Postdoc position in the "Live-cell structural biology" group (UPF, Barcelona)

We open a postdoc position in the "Live-cell structural biology" group (UPF, Barcelona) to understand the general principles of heterosis: how the progeny of two parental organisms can surpass their progenitors in adaptation to life-threating environments.

Biological context: Heterosis is a phenomenon that happens when the progeny of two parental organisms acquires "superior" performance than the original parents. Although it has a massive impact on the adaptation of species to natural environments, the molecular principles that control heterosis remain unexplored. We will investigate heterosis in eukaryotic microorganisms that cannot control their "body" temperature, and therefore, are vulnerable to thermal fluctuations in the ambient. We aim to understand how species adapt their essential cellular processes to life-threating temperatures and to deliver mechanistic knowledge that aids the prediction of biodiversity loss caused by global warming.

The project: Together with a bioinformatician and two cell biologists, the researcher will exploit the diversity of non-conventional model organisms available in our laboratory and multidisciplinary microscopy. The researcher is expected to lead the development of computational tools that allow us to extract quantitative models from super resolution and particle tracking data and to deliver insight about the fundamental principles that govern heterosis in the context of climate change. The tasks of the candidate will include the implementation of image analysis for single molecule localization microscopy

(SMLM) and particle tracking (Bayesian methods + machine learning) and to develop predictive models.

The Lab (www.gallegolab.org): Latest funding allowed us to gather a multidisciplinary team (50% computational + 50% experimentalist) that works in the frontier between evolutionary cell biology and structural biology. The lab is highly international, and it has all the necessary facilities and expertise for the cell biology, live-cell imaging, SMLM and computational modelling. As part of the UPF, we are located at the PRBB, one of the strongest scientific campuses in southern Europe.

If you are interested, please send a short cover letter, your CV and the contact for 2-3 referees to oriol.gallego@upf.edu.

Deadline: September 2023 or when the position is filled.

The position:

- Starting date no later than December 2023.

- Salary according to the researcher expertise

- 1+1 years position with the option to be extended.

Requirements:

- Strong expertise in bioimage analysis and/or data modelling.

- MSc or PhD degree in mathematics, computer sciences, physics, or related fields.

[CfPo] PhD student/Postdoc: "Theory and Algorithms for Structure Determination from Single Molecule X-Ray Scattering Images"

The Department of Theoretical and Computational Biophysics (Helmut Grubmüller) invites applications from candidates interested in contributing to the project "Theory and Algorithms for Structure Determination from Single Molecule X-Ray Scattering Images". The goal is to develop Bayesian methods to determine molecular structures and dynamics. It also offers the opportunity to work with data from the European XFEL facility at DESY and, depending on the interests of the applicant, many possible connections to other research areas like, for example, molecular dynamics or machine learning.

Please visit the website for more details: https://www.mpinat.mpg.de/27-23?c=645962