Newsletter
March 2025

SIBPA
Società Italiana di Biofisica Pura e Applicata
fondata nel 1973

Comunicazioni dalla SIBPA

EBSA 2025

Vi ricordiamo l'iscrizione per XV European Biophysics Congress (30 giugno al 4 luglio 2025, Roma)!

Nuova SCADENZA : 7 Aprile

Conferences

Workshop: Nitric Oxide Sensing by Photons

A workshop on fluorescent sensors for intracellular nitric oxide

Thursday April 10, 2025, h 14.00-17.00 Centro congressi Plesso delle Scienze - Campus Scienze e Tecnologie, Parma

Genetically encoded fluorescent sensors allow real time visualization of cellular processes. The workshop proposes recent methodological and technical advances to detect and monitor intracellular nitric oxide or other molecular species. For young researchers it is possible to propose short oral communications. Among proposals received, selected contributions will be presented during the workshop.

Nitric Oxide Sensing by a Blue Fluorescent Protein

Thomas Gensch

Forschungszentrum Jülich (Germany)

Computational modeling and design of intracellular indicators based on Fluorescent Proteins

Riccardo Nifosì

Istituto di Nanoscienze, CNR, Pisa (Italy)

Nitric Oxide photorelease, self reporting and sensing

Salvo Sortino

Università di Catania (Italy)

Participation in the workshop is free and no registration fee is required. However, for organization purposes, please send a request to participate by April 4, 2025. Young researchers interested in submitting a communication on the topics of the workshop can send a short abstract by March 31, 2025. For information and registration contact Stefania Abbruzzetti (stefania.abbruzzetti@unipr.it) or Pietro Delcanale (pietro.delcanale@unipr.it).

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ESP
Biophysical Society BiophysicsWeek March 24–28, 2025

Schools

Summer School: "BioBrillouin for MechanoBiology: Materials, Methods and Perspectives"

Dear Colleagues,

It is our pleasure to announce the upcoming **Summer School** titled **"BioBrillouin for MechanoBiology: Materials, Methods and Perspectives"**, which will take place from **July 6 to 9, 2025**, at the **University of Perugia, Italy**.

Organized as a satellite meeting of the EBSA Congress (https://www.ebsa2025.eu/), the school will provide a comprehensive, immersive, and interactive introduction to advanced microscopy and spectroscopy techniques, with a special focus on Brillouin Spectroscopy and its role in studying the mechanical properties of cells and tissues. Participants will have the opportunity to engage with leading experts, explore state-of-the-art methodologies, and discuss recent advancements in mechanobiology and optical spectroscopy.

Key Topics
Fundamentals and recent developments in Brillouin Spectroscopy
Comparative methods for the mechanical characterization of biological samples
Applications in mechanobiology and biomedical research
Hands-on training sessions and data analysis

Confirmed Speakers
Prof. Kareem Elsayad (Medical University of Vienna, AT)
Prof. Daniele Fioretto (University of Perugia, IT)
Prof. Maurizio Mattarelli (University of Perugia, IT)
Prof. Francesca Palombo (University of Exeter, UK)
Prof. Giuliano Scarcelli (University of Maryland, USA)
Prof. Giorgio Scita (University of Milan & IFOM, IT)

Moreover, leading companies in the field (JRS-Optical Instruments, CellSense, Specto photonics) will showcase their latest instruments, offering on-site demonstrations of cutting-edge technologies.

Important Dates
School Grant Application Deadline: **April 15, 2025**
Early Bird Registration: **April 30, 2025**
Regular Registration Deadline: **June 15, 2025**

Further details can be found at https://www.lab-ics.com/school.

For inquiries, please contact us at biobrillouin_school@lab-ics.com.

We kindly ask you to share this invitation with your research group and colleagues who may be interested.

We look forward to welcoming you to **Perugia**!

Best regards,**The Organizing Committee**

Silvia Caponi

Call for Positions

Researcher (post-doctoral) in biophysics. Université Grenoble Alps

Offer Description
The LIPHY laboratory (Laboratoire Interdisciplinaire de Physique) is a joint CNRS - Université Grenoble Alpes unit (UMR5588). The laboratory has a strong tradition of multidisciplinarity. Its research themes have evolved considerably, but it has retained from its origins a strong competence in optical methods and instrumentation: optical spectrometry, but also non-conventional imaging.

The Institut Laue Langevin is Europe's neutron scattering centre and is one of the world's leading neutron scattering centres. It welcomes 2,000 visitors a year to carry out experiments selected by the relevant scientific committees on instruments made available to the scientific community in partner countries. Scientific and technical excellence are the order of the day.

The iSense International consortium includes eight European teams contributing to the project with different expertise in structural, molecular biology, spectroscopy and other biophysical techniques. The project is led by the University of Uppsala. The local team in Grenoble will consist of the leader, Prof. Judith Peters, and the consultant, Prof. A. Pastore.

Activities
-Take an active part in the Structural Biology Group's collaboration with the Life Sciences and Soft Condensed Matter Partnership
-Develop, in a supportive environment, your current research interests in cutting-edge structural biology methods
-Participate in experiments and analyse SAXS/WAXS data from these samples
-Produce one of the molecules on which the enzyme will function and study conformational changes using a number of advanced techniques
-Produce adequate quantities of the recombinant protein that is the prerequisite for

the study, not only in Grenoble but for the whole iSense team

-Knowledge on synchrotron techniques SAXS/WAXS and data analysis
-Caracterisation of samples with lab techniques as CD, DSC,...
-Production of a protein according to a known protocole

https://euraxess.ec.europa.eu/jobs/329170

News from EBSA

Course on Protein Quality Control

I am delighted to announce another **Course on Protein Quality Control** that I will be coordinating with Prof. Jean-Denis Docquier at the University of Siena. This course is scheduled to take place from June 24 to 27, 2025, just ahead of the EBSA 2025 conference in Rome.

The course aims to familiarise participants with guidelines for protein quality control and to provide an overview of technologies essential for enhancing the accuracy and reproducibility of data obtained with purified proteins. Participants will have access to both theoretical foundations and hands-on experience with these technologies, ensuring a comprehensive learning experience.

Comprehensive details, including registration information, can be accessed on the official course website:

https://www.congressi.unisi.it/icPQC-Siena2025/

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