Newsletter
May-June 2025

SIBPA
Società Italiana di Biofisica Pura e Applicata
fondata nel 1973

Comunicazioni dalla SIBPA

EBSA 2025

Ci siamo !! Vi apettiamo a Roma al 15th congresso EBSA !





Conferences

MaSBiC Symposium – Advances in Biomolecular Sciences: Perspectives on Structure, Function and Dynamics

We are delighted to announce that registration is now open for the fifth edition of the MaSBiC Symposium – Advances in Biomolecular Sciences: Perspectives on Structure, Function and Dynamics, which will be held at the Università Politecnica delle Marche from 10 to 12 September 2025.

Please find the key dates below:

Registration opens: 19 May 2025 (now open!)

Early Registration & Abstract Submission deadline: 7 July 2025

Regular Registration deadline: 25 July 2025

To register and submit your abstract, please visit our website:
https://disvamasbic-symposium.bio-groups.com/

Should you have any questions or need further assistance, please do not hesitate to contact us at masbic.symposium@gmail.com or reply directly to this message.

We would greatly appreciate your help in spreading the word about the symposium among your colleagues and networks.

We look forward to welcoming you in Ancona!

Kind regards,

On behalf of the Organizing Committee
Luca Maragliano · Edoardo Milanetti · Domenico Raimondo · Anna La Teana · Blasco Morozzo Della Rocca · Alice Romagnoli · Agnese Roscioni · Beatrice Campanelli

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Extracellular vesicles and particles (EVPs): bridging the gap between computational and experimental research

September 17th-19th, 2025
Genoa, Italy
https://www.nanobiocomp.com/evps-workshop

The workshop aims to foster a much-needed dialogue between experimentalists and computational scientists at the intersection of biophysics, nanomedicine, and molecular modeling in the EVPs field. Its goal is to break disciplinary silos and establish common ground to address a key challenge: how the molecular composition of EVPs determines their structure, physical behavior, and biological functions, toward biomedical applications.

September 17th – 19th, 2025
Genoa, Italy

Extracellular vesicles and particles (EVPs): bridging the gap between computational and experimental research

From composition to structure, function, and biomedical applications



12th International Conference on Biological Physics

Dear Friends and Colleagues,

We proudly invite experts in biological physics worldwide to the International Conference on Biological Physics 2026 (ICBP 2026) in the magnificent Italian city of Genoa from June 28 to July 5, 2026. 14-18, 2023. The Italian Society of Pure and Applied Biophysics (SIBPA) is privileged to organise this meaningful conference under the auspices of the International Union of Pure and Applied Physics (IUPAP). Specifically, the Commission on Biological Physics (C6), established by IUPAP in 1990, aims to promote the exchange of information and views among the members of the international scientific community in the general field of Biological Physics.

Since the inaugural meeting at Szeged, Hungary in 1993, the International Conference on Biological Physics has been held in celebrated places around the world; including Munich (1995), Santa Fe, New Mexico (1998), Kyoto (2001), Gothenburg (2004), Montevideo (2007), San Diego (2011), Beijing (2014), Rio de Janeiro (2017), Madrid (2019) and Seoul (2023). Continuing this rich tradition and success, the 12th conference will be held in Genoa, Italy in 2026.

The 2026 IUPAP Medal for “Physics of Life” will be announced and awarded at the conference.

The ICBP 2026 scientific programme will propose high-quality scientific sessions that provide deeper knowledge and new perspectives on biological physics themes. The program will be a highly rewarding international platform for all participants and contribute to enhancing the scientific level and quality of our field in basic and applied research, including technology transfer.

Specifically, ICBP 2026 is a multidisciplinary conference. Regardless of the field of mathematics, physics, chemistry, engineering, biology or information science, we invite researchers to discuss new ideas and opportunities for the immediate future.

Genoa is a magnificent venue for ICBP 2026, located between the hills and the sea, full of ancient culture and historical buildings with modern fascinating developments. Food culture will welcome you harmoniously with excellent and

unique specialities. This well-balanced “pot” is a good way to promote serendipity in our scientific and technical discussions.

We are excited to wait for all of you in Genoa for a memorable meeting in the Summer of 2026!

Alberto Diaspro
Organising Committee of ICBP 2026

https://www.icbp2026.org/



Call for Positions

Two research positions at CRS4

Two research position in the field of molecular modeling available at CRS4

https://jobs.crs4.it/

News from EBSA

PhD - Study of the reaction intermediates in terminal oxidases by means of electrochemical and vibrational spectrosocopies

The Bioelectrochemistry and Vibrational Spectroscopy Group in the Complex Chemistry Matter Institute (UMR 7140) of the University of Strasbourg in France

seek candidates for PhD positions, to work on an exciting, multi-disciplinary project. The group has expertise in a variety of research areas including infrared / THz, Raman spectroscopy and electrochemistry applied on proteins.

We invite applications from highly motivated individuals that have excellent communication skills and sufficient command of English. This project is a part of an ambitious research program that aims on the development of plasmonic nanoreactors enabling excitation at specific wavelengths in infrared and THz for the study of the reactivity of complex molecular structures. By combining infrared spectroscopies and solid-state plasmonic nanostructures with excitation at wavelengths specific for the signature of protonated acidic residues, protein backbone and the overall hydrogen bonding network in the protein, we aim at monitoring the reactions of the protein during catalysis. The individual nanoreactors will be coupled to electrochemistry to mimic the natural potential of the membrane allowing performing a label free detection of the catalytic reaction and the conformational control within crucial membrane proteins. In parallel, nanodiscs including membrane proteins, will be produced and the intermediate states of the catalytic reaction studied.
We provide a unique opportunity for the successful candidate to engage in inter-disciplinary research using a variety of cutting-edge techniques at the interface between physical chemistry and biophysics. A background in physical chemistry with a strong interest in spectroscopy, nanotechnologies and plasmonics is desirable. Alternatively, a strong bioelectrochemistry background is also suitable. Candidates with a master's degree in physical chemistry, biophysics or an equivalent field are welcome.

The group https://complex-matter.unistra.fr/ and is located on the central campus of the University of Strasbourg.

Please send your application, including a CV, 2 references, the final marks of your master to hellwig@unistra.fr until the 15.7.

15th Annual AFM Biomed Summer School

It is our pleasure to announce that registration is open for the next AFMBioMed summer school in Sheffield, UK, from September 8-12, 2025. The school will offer an introduction to Atomic Force Microscopy in Life Sciences and Medicine for PhD students, post-docs, early career scientists and core facility technicians/engineers.

Lectures will be complemented by hands-on tutorials to facilitate communication between experienced and novice AFM users - beginners are welcome!

You can find more information at:

https://afmbiomed.org/summer-school-2025.aspx.

Places are limited, so please sign up early.

We look forward to seeing some of you in Sheffield in September.

Best wishes,
Alice Pyne and Jamie Hobbs

The Dual Nature of Glycans in Protein-Protein Interactions: Bridging Computational and Experimental Insights

September 7, 2025 - September 10, 2025
Registration deadline: June 30, 2025
Location: CECAM-IT-SIMUL, University of Cagliari, 09042, ITALY
The function of proteins is heavily modulated by glycosylation, the attachment of sugar chains called glycans. These glycans create a dynamic "glycan shield" that serves as an entropic barrier, influencing how proteins fold and interact with other molecules. Through weak, transient bonds, glycans can alter a protein's local chemistry, thereby affecting cellular processes and viral behavior.

Given that changes in glycosylation are a hallmark of diseases like cancer, understanding these modifications is vital for biomedicine. The importance of glycosylation, though historically overlooked, was brought to the forefront during the SARS-CoV-2 pandemic, especially concerning its role in vaccine development.

The scientific momentum generated during the pandemic has encouraged interdisciplinary dialogue and motivated computational groups to incorporate glycosylation into their research. This increased focus has, in turn, highlighted deficiencies in the theoretical understanding of glycosylation.

This meeting aims to bring together world-leading experts in glycosylation, including both experimentalists and modelers. The goal is to identify critical challenges, establish a common language, and foster interdisciplinary collaborations among scientists. These efforts are essential to overcome the theoretical gaps in our understanding and to advance the field of structural glycoproteomics.

List of speakers:

Gabriela Chiosis, Elisa Fadda, James C. Gumbart, Cyril Hanus, Danny Hsu, Gerhard Hummer, Wonpil Im, Jesús Jiménez-Barbero, Syma Khalid, Siewert Marrink, Ahmad Reza Mehdipour, Antonio Molinaro, Serge Perez, Celso Reis, Nick Riley, Peter Seeberger, Emad Tajkhorshid, Devarajan Thirumalai, Rebecca Wade, Thomas Weikl, Robert Woods, Yoshiki Yamaguchi

Registration at: Workshop Website

The organizers: Rommie Amaro, Giorgio Colombo, Attilio Vargiu, Roberto Covino,

Matt Sikora



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