



Società Italiana di Biofisica Pura e Applicata  
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## [bySIBPA] 13<sup>th</sup> EBSA Congress, Messaggio del Presidente Alberto Diaspro

Care, cari,

a breve avremo la decisione circa EBSA2025, nel frattempo, riporto alcune note ricevute da Anna Moroni che ha rappresentato in presenza a Vienna, in mia vece, SIBPA all'Assemblea generale.

Ecco alcuni punti di interesse:

1. Finanze: le riserve EBSA sono quasi raddoppiate anche per effetto del Lock-down e sono composte per il 95% da utili provenienti da European Biophys. Journal e per il restante dalle quote congressuali e dai contributi delle Società Nazionali.

I Presidenti delle società nazionali sono esortati a incoraggiare i membri a pubblicare sull'[EBJ](#). Il giornale è ibrido, sia a pagamento che open access. Essendo un giornale di una società scientifica, non è obbligato ad andare completamente open access. L'IF per tradizione non è mai stato un criterio pressante rispetto alla qualità dei contributi. EBSA è anche coinvolta fortemente nell'[Encyclopedia of Biophysics](#), da cui trae anche vantaggio economico.

Si segnala inoltre che la SIBPA ha ricevuto 14 borse per il congresso di Vienna, più di qualsiasi altra società a conferma dell'alto livello della ricerca in ambito europeo. SIBPA stessa ha bandito alcune Borse di Studio per partecipare al "13th EBSA Congress": le borse postdoc sono state attribuite ad **Andrea Carrer** (Università di Padova), **Martina Alunni Cardinali** (Università di Perugia), **Magdalena Bachmann** (Università di Padova) e **Valentina Scattolini** (Università di Padova), mentre **Andrea Mussini** (Università di Parma) è risultato vincitore della borsa per i dottorandi.

2. EBSA ha recentemente creato un EBSA Newsgroup che si trova sul sito EBSA (<http://ebsa.org/portal/newsgroup>) e chiede ai presidenti di incoraggiare i membri ad usarla. Inoltre, la società cristallografica Greca è stata ammessa come full member pagante, sono stati votati cambiamenti al regolamento che riguardano l'associazione dei membri che tratteremo in un prossimo CD. È stato ribadito che ad EBSA si possono associare anche singoli individui.

Mauro Dalla Serra ha presentato la candidatura per EBSA a Roma nel 2025 ed il filmato ha emozionato l'assemblea. La società serba ha presentato la candidatura di Belgrado.



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Sono mancate tematiche riguardanti gender issue, minorities, under represented, harrasment, etc, che talora nella BPS costituiscono più del 50% delle discussioni. Credo (AD) che in SIBPA abbiamo un giusto equilibrio sul quale non abbassare la guardia.

Le presentazioni delle nostre giovani e dei nostri giovani sia per gli orali che per i poster sono state molto apprezzate e direi che abbiamo mostrato un ottimo livello scientifico.

Ringrazio ancora Anna Moroni per queste note e Mauro Dalla Serra per il lavoro fatto in sede di EC di EBSA.

**[bySIBPA]** In seguito al Congresso della nostra Società, ricordiamo ai partecipanti la possibilità di sottomettere un contributo a "Biomolecular Concepts", rivista internazionale open access che grazie ad un accordo con SIBPA permetterà di evitare di pagare alcuna tassa di pubblicazione.

A breve uscirà una *call for papers*, rivolta ai partecipanti al congresso, per l'invio della segnalazione di interesse a contribuire un lavoro, a cui faranno seguito le istruzioni per il successivo invio dei contributi.

Avremo una deadline per l'espressione di interesse da comunicare a SIBPA a fine Settembre. La deadline finale per la sottomissione alla rivista è il 31 gennaio 2022. La pubblicazione è prevista per Giugno 2022.

Siamo convinti che i nostri soci contribuiranno a far crescere la rivista con lavori di qualità.

Cogliamo l'occasione per ringraziare tutti i partecipanti al congresso, dagli

DE GRUYTER

## BIOMOLECULAR CONCEPTS

CITESCORE 2020: 7.3

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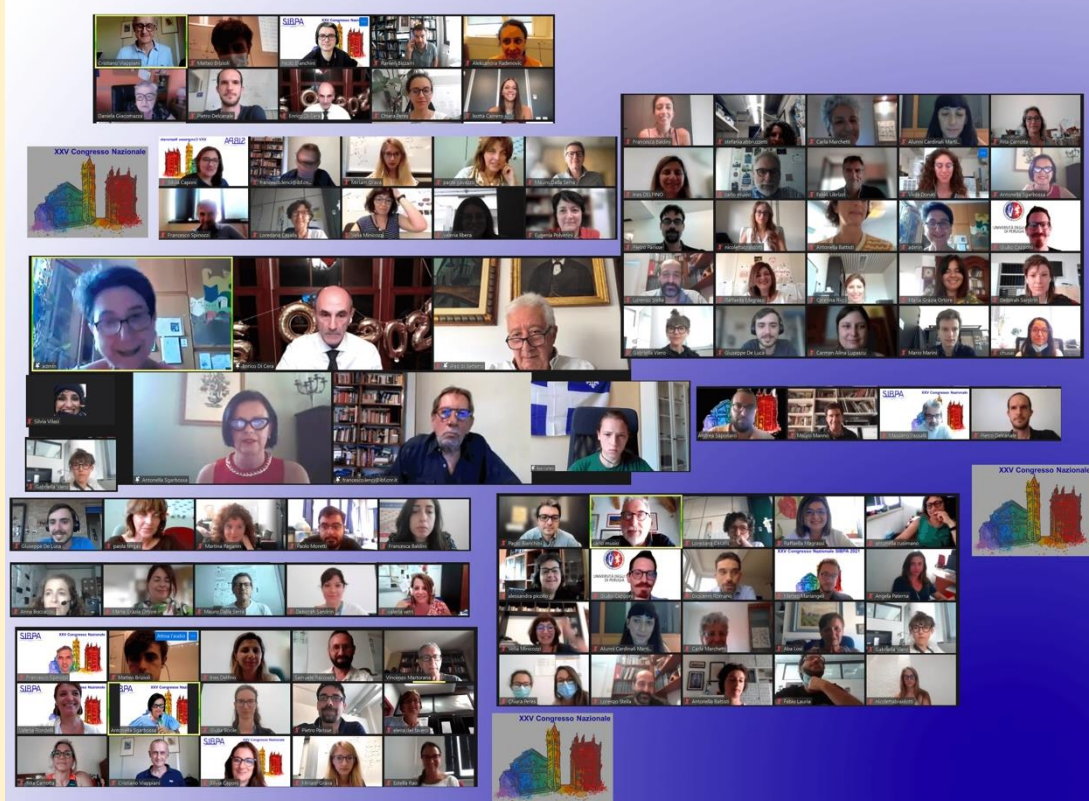


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speaker internazionali e connazionali, agli studenti che non hanno avuto timore di fare l'esperienza di presentare il proprio lavoro magari per la prima volta in assoluto in una sala virtuale.

E' stato bello ritrovarsi e avere, come sempre accade nei congressi SIBPA, occasione di confrontarsi e di aprirsi verso nuove idee e collaborazioni.

## SIBPA XXV Congresso Nazionale



## [Mpc] Articolo sul Corriere Innovazione del Presidente Alberto Diaspro sulla BIOFISICA

Il 30 luglio è apparso un articolo sulla biofisica, disciplina che nasce e si sviluppa come scienza di frontiera interdisciplinare, ad opera del nostro Presidente. Il Corriere Innovazione è un allegato mensile al Corriere della Sera e auspichiamo che la rilevanza della Biofisica sia sempre più riconosciuta dal vasto pubblico. L'articolo completo è allegato a questa mail.



## [CONF/MT] Young Scientist Program webinar series

IUPAB sponsors the Young Scientist Program webinar series ahead of the main congress in October. Please see:

<http://iupab2020.sbbq.org.br/interna-533/young-scientist-program-webinar-series>

It is providing an international platform for short talks from younger biophysicists.

Future talks will take place, e.g., on August 4 (Dr. Alicia Kowaltowski, IQ-USP), August 18 (Dr. Wah Chiu – Stanford Univ., USA). Please see the web link above.

## [CONGR] IUPAB CONGRESS



IUPAB Congress OCTOBER 4th-8th 2021 (online)

Registration and submission of Abstract are open.

<http://www.iupab2020.sbbq.org.br/>

10 keynote speakers, two of them Nobel prize winners, over 80 speakers overall, and 24 symposia will cover a wide range of interests in biophysics and biochemistry.

Important: the deadline for early registration with abstract submission has been extended to July 26th 2021!!!

Fellowships for this Congress:

<http://iupab.org/2021/07/06/iupab-congress-2021-fellowships/>

## [CfPo] 2 PhD Positions at Department of Physics, University of Genoa and IIT

1. Development of Multimodal Optical Microscopy Image Correlation Sensing - MOMIX. A super resolution microscope to study cellular systems at the nanoscale. **Research team:** Alberto Diaspro, (supervisor) Paolo Bianchini, Marco Castello, Simonluca Piazza, Irene Nepita. Contact: [alberto.diaspro@iit.it](mailto:alberto.diaspro@iit.it) with subject 'PhD-2021-MOMIX'





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2. Label-free optical microscopy, using circular intensity differential scattering (CIDS) and nonlinear processes (multiphoton and second harmonic generation), towards nanoscale biophysics applications.

**Research team:** Alberto Diaspro, (supervisor) Paolo Bianchini, Irene Nepita.

Contact: alberto.diaspro@iit.it with subject 'PhD-2021-LFREE'

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## [CfPo] 1 PhD Position at DISTAV Department, University of Genoa and IIT

Multimodal optical nanoscopy to study chromatin organization during cell differentiation and neoplastic transformation.

The research will integrate multimodal optical data towards the outcome of unveiling whether Neuroblastoma-associated chromatin alteration locates in correspondence of specific territories or genes and paving the way towards new prognostic and therapeutic approaches. Project supervised and tutored by Francesca Baldini (IIT), Laura Vergani (DISTAV-UNIGE), Alberto Diaspro (IIT, DIFI-UNIGE). Contact francesca.baldini@iit.it with subject 'PhD-2021-MUCHROM'

## [CfPo] 1 PhD Position at Department of Mathematical, Physical and Computer Sciences, University of PARMA and IIT Genoa (<https://en.unipr.it/studying/research-doctorates>)

Biophysics of Chromatin by Correlative Imaging and Simulation.

A particular attention will be given to the experimental aspects. Since atomic force microscopy (AFM) and electron microscopy (EM) are excellent for the investigation of mechanical and structural properties, while optical super-resolution microscopy is capable of specifically collect dynamic information at molecular level in living samples the research will develop a work flow that enables a multimodal and correlative approach. Project supervised and tutored by Paolo Bianchini (IIT), Cristiano Viappiani (UNIPR), Alberto Diaspro (IIT, DIFI-UNIGE). Contact: paolo.bianchini@iit.it with subject 'PhD-2021-BICHROM'

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## [CfPo] Postdoc Position at University of Maryland

Position Title: Light-matter interaction in biological materials.

Position Description: Our lab studies the interaction of light and matter in biological materials to devise novel technology for biological research and clinical medicine. We mainly focus on two grand challenges/opportunities of bio-optics:



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1) [Optical imaging and/or light-delivery through turbid media](#), which has been thought to be fundamentally impossible for many years but has recently provided exciting progress [ e.g. *Optica* 3, 71 (2016); *Nature Communications* 7, 10374 (2016); *ACS Photonics* 7, 914 (2020)].

2) [Imaging modalities to map properties](#) (e.g. mass, stiffness, viscosity, force) that are difficult or impossible to measure with traditional techniques but have important biomedical applications [e.g. *Nature photonics* 2 39 (2008); *Nature Methods* 12, 1132 (2015), *Nat. Cell Bio* 19 864 (2017), *Phys. Rev. Lett.* 122, 103901 (2019), *Science Adv.* 6, eaba6505 (2020)].

The candidate will be involved in the design, development, and optimization of optical setups as well as the analysis and characterization of light-matter interaction phenomena. Specifically, the ideal candidate will have demonstrated expertise in data acquisition hardware/electronics, physics, optical design, and alignment and/or software programming (Matlab, Labview and/or C++).

More information on the lab activities can be found at [www.onlylightcandothat.org](http://www.onlylightcandothat.org) .

Interested candidates should send their CV and a cover letter describing training, research experience and interests to Prof. Giuliano Scarcelli via email to [scarc@umd.edu](mailto:scarc@umd.edu).

## [CfPo] Postdoc and/or Assistant Professor Position at Macau

Postdoc and/or Assistant Professor position in Macau at the 'State Key Laboratory of Quality Research in Chinese Medicine', Macau University of Science and Technology (<https://www.must.edu.mo/en/sklqrcm> ). The State Key Laboratory uses cutting edge technology to separate and characterize components from Traditional Chinese Medicine (TCM) aiming at new well-defined drugs in the fields of immunology, cardiovascular diseases, neurology and cancer. In the newly established Biophysics Laboratory we use high-throughput fluorescence-based screening and patch-clamp to identify components acting on ion channels. Preferred targets in this respect are CRAC- and TRP-channels. However, we also expect ion channel research in general to contribute essentially to the understanding of disease mechanisms and to reveal a multitude of targets of compounds derived from TCM formulations.

For more information write to: [eneher@gwdg.de](mailto:eneher@gwdg.de)

Prof. Dr. Erwin Neher

Max-Planck-Institute biophys. Chem.

Am Fassberg 11



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37077 Goettingen, Germany

## [CfPo] Postdoc and PhD student positions in Computational Biophysics at Helsinki

Employer: Department of Physics, University of Helsinki, Finland

Contact: Prof. I. Vattulainen ([Ilpo.Vattulainen@helsinki.fi](mailto:Ilpo.Vattulainen@helsinki.fi)), Dr. V. Sharma ([Vivek.Sharma@helsinki.fi](mailto:Vivek.Sharma@helsinki.fi))

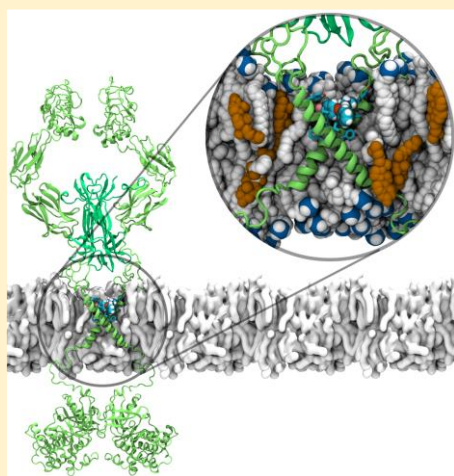
Website: <https://www.helsinki.fi/en/researchgroups/biophysics>  
<https://sites.google.com/site/vivekvivsharma/home>

Expires: Preferred deadline August 15, 2021, or until the positions have been filled.

**Job Description:** 3-4 positions for postdoctoral scientists and PhD students in computational biophysics and biochemistry/biological physics/computational drug design and discovery.

**Eligibility.** We are looking for outstanding candidates with experience in computer simulations, and who have recently obtained PhD (postdoc positions) or MSc (PhD student positions) degrees in fields of biological physics, biophysics, soft matter and stat mech, (bio)physical chemistry, machine learning, computational drug design and discovery, or related fields. Experience with molecular dynamics simulations (with GROMACS, NAMD, etc.) and other simulation techniques (DFT, QM/MM, DPD, SRD, LB, etc.) on atomistic and coarse-grained levels is considered an asset.

**Working Environment.** The postdocs and PhD students will be part of the computational biophysics team comprised of two groups directed by Ilpo Vattulainen and Vivek Sharma. The team has ~25 members. The team specializes in multi-scale simulations using a wide arsenal of techniques ranging from QM to atomistic and coarse-grained simulations, and to large-scale continuum modeling. Collaborations with experimental and theoretical teams are strong. The working environment is relaxed and the successful candidate will have an opportunity to influence the project content. The group has been granted funding by, e.g., ERC, Human Frontier Science





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Program, EU, Academy of Finland, etc. **Funding for the Positions.** The gross salary will be about 3500-4000 EUR/month for postdocs, and about 2400-3200 EUR/month for PhD students (depending on experience).

**Projects.** The projects will focus on membrane-associated receptors/proteins with an objective to understand how their dynamics and activation are modulated, how impairment of these modulation mechanisms compromises the function, and how it can be rectified. The proteins in question are involved in abundant diseases that include type 2 diabetes, mitochondrial diseases, neurodegenerative disorders, and impairment of the biological barrier function related to lung function impairment (ARDS, Covid-19, etc.). The research is strongly coupled to collaborations with several first-class experimental teams. Detailed project description will be given during the interviews.

Computing Resources. The successful candidates will have access to outstanding computing resources that include the national supercomputing center ([www.csc.fi](http://www.csc.fi), about 14 petaflops) and the pre-exascale computing capacity LUMI (<https://www.lumi-supercomputer.eu/>, about 550 petaflops).

Application Procedure. Applications that include CV, list of publications, and a description of research interests should be sent as a single PDF file to [Ilpo.Vattulainen@helsinki.fi](mailto:Ilpo.Vattulainen@helsinki.fi) and [Vivek.Sharma@helsinki.fi](mailto:Vivek.Sharma@helsinki.fi). Recommendation letters are not crucial at this stage.

**Deadline.** August 15, 2021. However, applications are considered until the positions have been filled. Applicants who are short-listed for the positions will be contacted personally.

## [CfPo] Postdoc Position at Stockholm University

We are looking for a postdoc or researcher with experience in infrared spectroscopy of microplastics or of microorganisms. The project will investigate the mutual interaction between microplastics and microorganisms in marine snow aggregates with a particular focus on their composition and structure and on the degradation of microplastics. It will be conducted at Stockholm University and is a collaboration between Elena Gorokhova and Andreas Barth. The initial appointment will be for one year with the possibility of a prolongation. The link for the job application and further is <https://www.su.se/english/about-the-university/work-at-su/available-jobs?rmpage=job&rmjob=15470&rmlang=UK> and the deadline for the application is Sept 05 2021.



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Andreas Barth

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Home page: <http://www.su.se/profiles/abart-1.181843>

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## [CfPo] PhD student position at SISSA, Trieste

Dear friends and colleagues,

There are 5 positions (4 assigned, \*1 still available\*) for the PhD in "Physics and Chemistry of Biological Systems" at the International School for Advanced Studies (SISSA), Trieste, Italy.

\*The application deadline is August 25, 2021.

Students are expected to join the written and oral exam on September 6 and 7. The exam will be held remotely. Applicants should have a good background in Physics, Chemistry, Applied Mathematics or related subjects and are expected to obtain their Laurea Specialistica or equivalent degree by Autumn 2021. The application can be done online at this link:

<https://pica.cineca.it/sissa/phd-physchem-02-2021/>

Admitted students will have the opportunity to follow a one-year educational program in an international and interdisciplinary environment, followed by three years of active research in one of the following areas:

- Structural bioinformatics
- Statistical mechanics of complex molecular systems
- Biomolecular simulations
- Simulations of rare events
- Data science of complex and biomolecular systems



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- Polymer physics

- Active matter

For further information about the available research lines and past entrance exams see:

<http://www.sissa.it/sbp/phdsection/entranceexam.php> and related webpages.

With my best regards,

Giovanni Bussi

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**[CfPO] BANDO Ricercatore a tempo determinato di tipo A (RTD-A), Settore concorsuale 03/A2 Modelli e Metodologie per le Scienze Chimiche, Settore scientifico disciplinare CHIM/02 Chimica Fisica**

Il ricercatore dovrà svolgere attività di ricerca, di didattica, di didattica integrativa e di servizio agli studenti per il settore concorsuale e scientifico disciplinare oggetto della selezione. Il ricercatore dovrà svolgere attività di ricerca sperimentale in sinergia con l'attività del Dipartimento, coerente con la declaratoria del settore concorsuale e del settore scientifico disciplinare oggetto della selezione e rivolta allo studio, mediante spettroscopia ottica, di sistemi molecolari con particolare riguardo a quelli di interesse biologico, con riferimento alla determinazione strutturale, alle proprietà chimico-fisiche ed al loro utilizzo in ambiti applicativi. Tipologia dell'impegno didattico: Il ricercatore dovrà svolgere l'attività didattica nell'ambito di corsi di insegnamento del settore scientifico disciplinare CHIM/02. Numero massimo delle pubblicazioni da presentare da





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parte del candidato: 12. È richiesta la conoscenza della lingua inglese. Tipologia contrattuale: tempo pieno, durata 3 anni.

Il Bando sarà pubblicato sulla Gazzetta Ufficiale 4° Serie Speciale – Concorsi ed esami, n. 59 del 27 luglio 2021, scadenza per la presentazione delle domande: **8 settembre 2021**.

Ulteriori informazioni possono essere richieste a Prof. Giulietta Smulevich  
[giulietta.smulevich@unifi.it](mailto:giulietta.smulevich@unifi.it)

### **[CS] Apply for access to laboratories of excellence: MOSBRI**

One of the principal activities of the MOSBRI project is to offer free-of-charge transnational access for researchers in academia and industry. MOSBRI offers access to laboratories of excellence working on the architecture, dynamics, and interactions of the giant molecules of life (proteins, DNA, RNA, polysaccharides, lipids) at the crucial intermediate level between atomic-resolution structural descriptions and cellular-scale observations. This enables invaluable insights into the complex behaviour of macromolecular assemblies.

Through our networking activities, MOSBRI will also disseminate its know-how through training schools (<https://www.mosbri.eu/training/>) and annual scientific conferences.



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**MOSBRI: A European Research Infrastructure  
for Molecular Biophysics**

*On the 1<sup>st</sup> of July 2021 the molecular-scale biophysics EU  
programme MOSBRI commences operation.*



Apply for access to laboratories of excellence

Applications for transnational access are now being accepted  
via our proposal submission system at <https://www.mosbri.eu/apply-for-tna/>.

Next training school will be “Circular Dichroism: best practice and data analysis”,  
from 3rd-5th November 2021, in Aarhus University, Denmark (AU-SRCD). See the  
website for more information.



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