SIBPA
Società Italiana di Biofisica Pura e Applicata
fondata nel 1973

Member Society of
EBSA
Biophysics in Europe

NEWSLETTER 2019

10 – October

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

[by SIBPA] Bando borsa SIBPA per Biophysical Meeting 2020 - San Diego

La SIBPA bandisce n. 1 (una) Borsa di Studio per partecipare al Biophysical Society 64th Annual Meeting in San Diego, California, February 15-19, 2020
https://www.biophysics.org/2020meeting#/

[illegible] della Borsa è pari ad un massimo di **1000 (mille) euro** per spese documentate. La/il richiedente deve: i) rientrare nella categoria del personale di ricerca non strutturato, ii) essere iscritta/o alla SIBPA, in regola con i pagamenti alla data di scadenza del bando e iii) avere avuto rapporti di lavoro (includendo borse di studio, assegni di ricerca, contratti o collaborazioni) con organismi di ricerca aventi sede legale e/o operativa sul territorio italiano, di durata complessivamente superiore a 4 mesi nei 12 mesi precedenti la data di scadenza del presente bando. Per la valutazione verranno presi in considerazione la produzione scientifica, l'eventuale vincita di premi, l'attività di ricerca all'estero, la partecipazione a congressi internazionali e a scuole.

[illegible] ract. Per [illegible] contestualmente alla presentazione della domanda di borsa previo pagamento della quota [illegible]
Le/i Dottorande/i di Ricerca dovranno includere una lettera di presentazione del proprio supervisore. Ogni Laboratorio/Unità di Ricerca può fare domanda per una sola borsa SIBPA.

Le domande, corredate di un breve curriculum vitae e dell'Abstract presentato, devono pervenire al Presidente della SIBPA, Prof. Cristiano Viappiani (cristiano.viappiani@unipr.it), entro il **21 novembre 2019**.

La selezione sarà a cura del Consiglio Direttivo della SIBPA e il vincitore verrà comunicato [illegible] entro il 13 dicembre 2019 (la early registration deadline del congresso è fissata al 8 gennaio 2020). In aggiunta alla documentazione delle spese, la vincitrice/il vincitore dovrà inviare copia pdf del poster presentato al congresso.

Il Presidente
Cristiano Viappiani

[by SIBPA] Bando borsa SIBPA per simposio Nanoengineering for Mechanobiology, Camogli (GE) 22-25 Marzo 2020

La SIBPA bandisce n. 2 (due) Borse di Studio per partecipare al convegno Nanoengineering for Mechanobiology, Camogli (GE) 22-25 Marzo 2020
http://2020.mechanobiology.eu

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La/il richiedente deve: i) rientrare nella categoria del personale di ricerca non strutturato, ii) essere iscritta/o alla SIBPA, in regola con i pagamenti alla data di scadenza del bando e iii) avere avuto rapporti di lavoro (includendo borse di studio, assegni di ricerca, contratti o collaborazioni) con organismi di ricerca aventi sede legale e/o operativa sul territorio italiano, di durata complessivamente superiore a 4 mesi nei 12 mesi precedenti la data di scadenza del presente bando. Per la valutazione verranno prese in considerazione la produzione scientifica, l'eventuale vincita di premi, l'attività di ricerca all'estero, la partecipazione a congressi internazionali e a scuole.

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Le/i Dottorande/i di Ricerca dovranno includere una lettera di presentazione del proprio supervisore. Ogni Laboratorio/Unità di Ricerca può fare domanda per una sola borsa SIBPA.

Le domande, corredate di un breve *curriculum vitae* Ŝ Ř Ŝ f *abstract* presentato, devono pervenire al Presidente della SIBPA, Prof. Cristiano Viappiani (cristiano.viappiani@unipr.it), entro il **20/11/2019**.

[l· ă Ŝ f Ŝ Î ƛ ƨ y Ŝ ă l· N J Ł l· Ŏ dz N J l· Ř Ŝ f / ƨ y ă ƛ ∃ f ƛ ƨ 5 ƛ N J Ŝ ű ű ƛ Ø ƨ Ŝ y ű N J ƨ ƛ f н т к м м к н л м ф Φ [l· ă Ŏ l· Ř Ŝ y Î l· L J Ŝ N J e per Ω ƛ y Ø ƛ ƨ registrazione, è fissata la data 30/11/2019. In aggiunta alla documentazione delle spese, la vincitrice/il vincitore dovrà inviare copia pdf del poster presentato al congresso.

Il Presidente
Cristiano Viappiani

[by SIBPA] 5th Camogli Symposium "Nanoengineering for Mechanobiology", 22 - 25 March, 2020 - Camogli, Genova, Italy

[CfPO] [Ebsa] PhD position, framework ITN EU grant, in Martin Hof's lab in Prague.

16/08/2019

Marie Curie Actions

PhD student in Biophysics/Physical Chemistry

Where to apply

Application Deadline: 27/09/2019 00:00 - Europe/Brussels

Contact Details

Where to send your application.

COMPANY
J. Heyrovský Institute of Physical Chemistry of the CAS, v. v. i.

E-MAIL
jan.sykora@jh-inst.cas.cz

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY
J. Heyrovský Institute of Physical Chemistry of the CAS, v. v. i.

DEPARTMENT
Biophysical Chemistry

ORGANISATION TYPE
Public Research Institution

WEBSITE
http://web.jh-inst.cas.cz/

COUNTRY
Czech Republic

CITY
Prague 8

STATE/PROVINCE
Czech Republic

POSTAL CODE
182 23

STREET
Dolejškova 2155/3

ORGANISATION/COMPANY
J. Heyrovský Institute of Physical Chemistry of the CAS, v. v. i.

RESEARCH FIELD
Chemistry › Physical chemistry
Physics › Biophysics

LOCATION
Czech Republic › Prague 8

TYPE OF CONTRACT
Temporary

JOB STATUS
Full-time

[CfPO] [Ebsa] PhD positions in single molecule biophysics

Open positions for PhD students in single molecule biophysics
The Kaplan lab (https://kaplan.net.technion.ac.il) has several openings for students interested in a PhD in experimental single molecule biophysics.

Physics students: The position involves design and construction of an advanced optical setup combining optical manipulation and fluorescence detection, and its use to characterize the interplay between chromatin dynamics and gene expression.

Biology students: The position combining molecular biology and high resolution, single molecule optical tweezers to study the interactions between transcription factors, polymerases and chromatin.

The lab is a highly interdisciplinary one, and students can expect to acquire a wide set of skills during their studies. The Technion – Israel Institute of Technology is located at the beautiful city of Haifa, on the Mediterranean coast.

Some recent works from the lab:

Rudnizky et. al., PNAS (2019)
Zananbiri et. al., eLife (2019)
Rudnizky et. al., Nature Communications (2016)

For more information please contact:
Ariel Kaplan, PhD
Associate Professor, Faculty of Biology & Lorry I. Lokey Interdisciplinary Center, Emerson Building, Room 626, Technion – Israel Institute of Technology, Technion City, Haifa 32000, Israel
email: akaplanz@technion.ac.il

[CfPO] [Ebsa] Postdoctoral position in open quantum systems in biology and molecular dynamics simulations

Postdoctoral position (3 year) to work on a theoretical physics project involving open quantum systems in biology, molecular dynamics simulations and photosynthesis (Queen Mary Univ. London): https://webapps2.is.qmul.ac.uk/jobs/job.action?jobID=4701

Dr. Peter G. Adams
University Academic Fellow, Molecular and Nanoscale Physics Group
School of Physics and Astronomy, University of Leeds, Leeds, LS2 9JT, UK
+44 (0)113 34 39718
P.G.Adams@Leeds.ac.uk

[CfPO] [Ebsa] Postdoctoral Position: Biomolecular Solid-state NMR (Strasbourg)

The laboratory **Membrane Biophysics and NMR at the University of Strasbourg** has an opening for a postdoctoral position with experience in using solid-state NMR for the analysis of peptides and proteins. The aim of the project is to reveal the structural determinants that define the highly specific lipid recognition motif of a transmembrane protein and to characterize changes in structure, dynamics, oligomerization and topology of the protein as well as the lipids during recognition. Another ongoing project is the structural investigation of peptide fibers with strong nucleic acid and lentiviral transfection potential.

Candidates should have good experience in biomolecular solid-state NMR. Other techniques of the laboratory are solution NMR approaches, various types of biophysical methods, peptide synthesis and/or the biochemical production of proteins. Knowledge in some of these latter techniques are of advantage. S/he should have an interest in working in a highly interdisciplinary, international and collaborative environment. The project and position are funded by a three-year grant from the French National Agency for Research (ANR). The University of Strasbourg chemistry, life sciences and structural biology departments have excellent scientific records, with a multitude of collaborations world-wide.

Strasbourg is a very nice city on the French side of the Rhine river, at the border to Germany, with easy access to nearby mountains (Vosges, Black Forrest, Alps). Being in the heart of Europe it takes only short train rides to multiple destinations of scientific and/or touristic interest.

Candidates should send their CV, publication list and contact information for references to:

Prof. Burkhard Bechinger
e-mail: bechinger@unistra.fr
Web: www.icfrc.fr/en/
www-chimie.u-strasbg.fr/~rmnm

[CfPo] [Ebsa] Postdoctoral and/or PhD student positions in Biomolecular Simulation (Helsinki) starting in December 2019 – January 2020

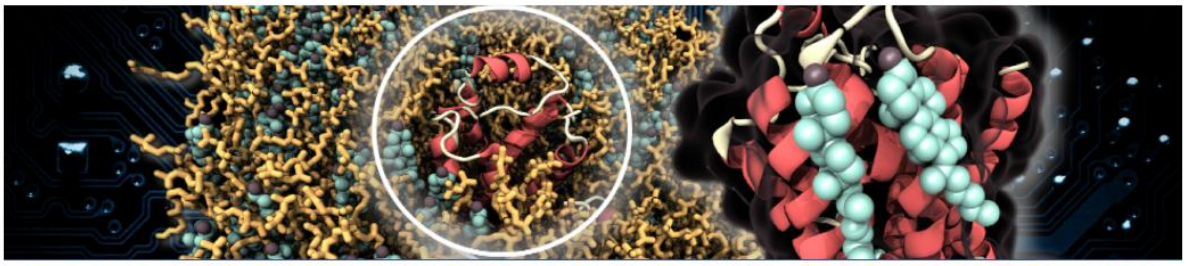
We are looking for talented young scientists (postdoctoral researchers and/or PhD students) to join our Biomolecular Simulation team in Helsinki.

The projects will be based on HFSP (Human Frontier Science Project) funding that was granted to reveal effects of diet-induced changes in brain lipid composition on activity and function of membrane proteins in the brain. We carry out atomistic and multiscale simulations that will be linked to experiments (lipidomics, membrane biophysics, cell biology, biochemistry, neuroscience) done by our partners in the same HFSP project.

Key points:

- The work would be done in our team of about 20 excellent members in the City of Helsinki that is full of activities and surrounded by clean nature
- Salary would be competitive, and computing equipment & resources would be outstanding
- Our group's work overall is very tightly coupled to collaborations with a large network of first-class experimental teams
- We process applications all the time, however the preferred deadline is November 15, 2019

Please send your Cover Letter, CV, and List of Publications (as a single PDF file) to:
Prof Ilpo Vattulainen
Dept Physics, Center of Excellence in Biomembrane Research, Univ Helsinki
E-mail: ilpo.vattulainen@helsinki.fi
Web: https://www.helsinki.fi/en/researchgroups/biophysics (Our group)



Postdoctoral and/or PhD student positions in Biomolecular Simulation (Helsinki) starting in December 2019 – January 2020

Human Frontier Science Project (HFSP) to reveal effects of diet-induced changes in brain lipid composition on activation and function of membrane proteins in the brain.

- **Atomistic & multiscale simulations carried out in the Vattulainen group (Helsinki) linked to experiments (lipidomics, membrane biophysics, cell biology, biochemistry, neuroscience) done by experimental partners in the same HFSP project.**
- **Work in a team of about 20 excellent members in the City of Helsinki full of activities, surrounded by clean nature**
- **Competitive salary, outstanding computing equipment & computer resources**
- **Team's work tightly coupled to collaborations with a large network of top-level experimental teams**
- **Please send your Cover Letter, CV, and List of Publications (as a single PDF file) to Ilpo Vattulainen**
- **Deadline: we process applications continually (however, the preferred deadline is November 15, 2019)**

For further details, please contact:
Prof Ilpo Vattulainen, Univ Helsinki (ilpo.vattulainen@helsinki.fi)
Center of Excellence in Biomembrane Research (prolipids.helsinki.fi)
Web: https://www.helsinki.fi/en/researchgroups/biophysics

Enkavi et al., Chem Rev 119, 5607 (2019)
Javanainen et al., PLoS Comp Biol 15, e1007033 (2019)
Senju et al., PNAS 114, E8977 (2017)
Manna et al., eLife 5, e18432 (2016)

[CS] [Ebsa] FEBS INSTRUCT MOBIEU Practical Course HyThaBio - deadline oct 30 2019

FEBS INSTRUCT MOBIEU Practical Course HyThaBio
Hydrodynamic and thermodynamic analysis of biological macromolecules and their interactions: multi-method approaches and global data analyses
Grenoble, France - January 26 - 31, 2020
https://biomacromoldynamics2020.febsevents.org

This course provides theoretical and practical training in data analysis in several modern biophysical methods for monitoring and quantifying molecular interactions: analytical ultracentrifugation,

isothermal titration calorimetry, surface plasmon resonance, microscale thermophoresis, and fluorescence-based techniques; additional related methods are introduced in lectures.
The course will put emphasis on the complementarity of these different methods in the field of macromolecular biology and on the combined analysis of datasets coming from different methods, using the programs developed by P. Schuck (NIH, USA).
Deadline for applications: **October 30, 2019**

[CONF/MT] [Ebsa] IUBMB Focused Meeting/FEBS Workshop CrossMitoNus - Seville

Hydrodynamic and thermodynamic analysis of biological macromolecules and their interactions: multi-method approaches and global data analyses

Seville, Spain – May 19 – 22, 2020
https://crossmitonus2020.iubmb-febs.org/
Deadline for IUBMB-FEBS Travel Travel Funds Application: **December 15, 2019**

CrossMitoNus focus on the communication that exists between mitochondria and cell nucleus first described as retrograde signaling between mitochondrial and nuclear genomes. Recently, mitochondrial factors have been emerged as response elements to cell nucleus performance. Thus, unraveling the whole connectivity between the biomolecules involved in all this regulatory mitochondria-nucleus crosstalk and its relation to cell fate and physiological state is nowadays a major challenge. Indeed, as a supra-disciplinary field, it demands collaborative efforts involving Cell Biology, Biochemistry, Biophysics, Structural Biology and Cancer Biology, and new approaches in which experimental and computational methods used.

[CfP/A] [Ebsa] [Ebsa] Call of applications for the IUPAB - Young Scientist Program 2020

The IUPAB-YSP will be held in São Paulo, Brazil, October 22th to 24th, 2020 as a satellite activity for the IUPAB Annual Meeting. This program, aimed toward students and recent PhDs, will provide a unique opportunity for 40 young scientists from different countries to discuss their scientific results, novel ideas, and career development.
Participants in the YSP will be selected from candidates worldwide and will receive free registration for both the YSP and IUPAB-SBBq-SBBf Congress, as well as shared accommodation. Further funding requests are underway with the aim to cover travel and other local costs expenses.
Applications for the 2020 YSP have been extended until October 31st 2019.
Please consult **http://iupab2020.sbbq.org.br/** for updated information, and distribute this message to your colleagues.
2020 IUPAB-SBBq-SBBf Young Scientist Program Organizing Committee

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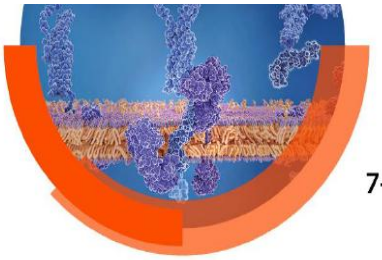
[CONF/MT] [EBSA] Peptide-membrane interactions: Faraday Discussion, London, UK

Peptide-membrane interactions

Faraday Discussion



7–9 September 2020
London, UK

Themes

Theoretical and experimental comparisons of simple peptide-membrane systems; towards defining the reaction space.

Theoretical and experimental studies of complex peptide-membrane systems.

Behaviour and interactions of proteins and peptides with and within membranes; from simple models to cellular membranes.

Peptide-membrane interactions and biotechnology; enabling next-generation synthetic biology.

Key deadlines

Oral abstract	2 Dec 2019
Poster abstract	29 June 2020
Early bird	20 July 2020
Standard registration	10 Aug 2020

Speakers

William DeGrado	University of California, San Francisco, USA
Patricia Bassereau	Institut Curie, France
Peter Tieleman	University of Calgary, Canada
Gregory Voth	University of Chicago, USA
Lukas Tamm	University of Virginia, USA
Paula Booth	Kings College London, UK
Ana Garcia	University Tubingen, Germany
Mibel Aguilar	Monash University, Australia
Oscar Ces	Imperial College London, UK

ROYAL SOCIETY OF CHEMISTRY

rsc.li/peptide-fd2020

[Newsletter closed on 24/10/2019]