

- **Calls for Positions [CfPo]**
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[CONF] Challenges in biological cryo electron microscopy, 13-15 July 2022, Sheffield, UK and online

Call for abstracts. Deadline 25 October 2021

The latest addition to the Faraday Discussion series will bring together expertise from the international cryo-electron microscopy community to explore challenges and developments in sample preparation, tomographic analysis, CLEM and map/model validation.

More info at <http://rsc.li/microscopy-fd2022>

Faraday Discussion meetings have a special format where research papers written by the speakers are distributed to the delegates in advance and almost all of the meeting is devoted to discussion of the papers. By submitting an abstract for the Faraday Discussion, if accepted, you will then need to submit a full research paper by 21 February 2022, which will be published after the meeting in the Faraday Discussions journal. More information about how the Discussions work can be found at <https://www.rsc.org/journals-books-databases/about-journals/faraday-discussions/faq/>



[CONF] British Biophysical Society October 2021 Short Meeting on the Biophysics of Condensates

We are holding a short meeting with two excellent speakers at 4PM (BST) on October 7th.

Speakers: Rosana Colleparado (Cambridge) and Rohit Pappu (U.Washington, USA). Please register at: <https://bit.ly/3Epl3Dr>

[CfPo] 2 PhD Positions, University of Bayreuth, Germany

The Department of Experimental Physics at the University of Bayreuth invites applications for 2 PhD student positions (m/f/d) in the area of Biological Physics / Biophysics with a particular focus on

- 1) self-organization and non-equilibrium phenomena in cells and tissues
- 2) development and application of lightsheet microscopy in the context of embryogenesis, tissue organization, and biofabrication.

The lab's research is focused on elucidating physicochemical principles of life, e.g. dynamic self-organization processes in living matter, using advanced light microscopy methods (incl. lightsheet microscopy), microfluidics, and computational approaches (see www.ep1.uni-bayreuth.de/en/research for details).

Candidates should have an interest in interdisciplinary work, which is supported onsite by an interdisciplinary PhD program (BayNAT) and the Elite Study Program on Biological Physics. A Masters/Diploma degree in Physics, Biophysics, Physical Chemistry, (Optical) Engineering, or Cell/Molecular Biology (with additional qualifications in Physics) is expected. Starting dates for a contract that covers 4 years can be as soon as 10/2021, salary according to TV-L.

Applications from handicapped persons will be favored when all other qualifications are equal. The University of Bayreuth is an equal opportunity employer and we therefore especially encourage women to apply.

Please send inquiries and meaningful applications (CV and a brief motivation letter) at the earliest convenience to: sekretariat.ep1@uni-bayreuth.de



[CfPo] 1 Postdoc Position, University of Bergen, Norway

We are looking for a postdoc in a project which focuses on a multidisciplinary approach towards formation, structure, and dynamics in proteolipid multilayer structures, such as seen in vertebrate myelin. As we are in the near future hiring several people, we are looking for an optimal combination of expertise, and various backgrounds related to biophysics and structural biology will be considered.

The announcement, with a deadline on Oct 10th, can be found at:

<https://www.jobbnorge.no/en/available-jobs/job/212348/postdoctoral-research-fellow-3-years>

All applications must be done through the online portal (please do attach a CV even though the system does not strictly require it). While applications by email will not be considered, informal queries are welcome.

Petri Kursula

[CfPo] 1 Postdoc/Scientist Position, University of Bayreuth

The Department of Experimental Physics at the University of Bayreuth invites applications for a Postdoc/Scientist position (m/f/d) in the area of Biophysics / Biological Physics with a particular focus on quantifying transport and dynamics in living matter using advanced light microscopy methods.

Applicants are expected to have earned a PhD in Physics, Biophysics, Physical Chemistry or Cell/Molecular Biology (with additional qualifications in Physics).

Research experience in the area of Biological Physics / Biophysics, especially with advanced light microscopy, are highly welcome.

Appointments will be made for an initial period of two years, preferably starting 10/2021, with salary according to TV-L.

Please send inquiries and meaningful applications (CV, publications list, a brief motivation letter, and contacts for references) at your earliest convenience to sekretariat.ep1@uni-bayreuth.de



[CfPo] 1 Postdoc Position, Ruđer Bošković Institute in Zagreb

A postdoctoral position funded by the ERC is available in the Laboratory for Cell Biophysics headed by Iva Tolić at the Ruđer Bošković Institute in Zagreb.

We are looking for a mitosis enthusiast, a young researcher passionate about the biomechanics of the mitotic spindle and chromosome segregation fidelity to work on the ERC Synergy project ANEUPLOIDY - Molecular origins of aneuploidies in healthy and diseased human tissues
<https://cordis.europa.eu/project/id/855158>

The goals of the ANEUPLOIDY Synergy team are to uncover the molecular causes of aneuploidies in humans, both in healthy tissues and in pathological conditions such as cancer, and to reveal their propagation and impact on genome integrity. The postdoc will be integrated in an interdisciplinary team that combines molecular and cell biology, cell biophysics, cancer biology, and theoretical physics. High-end microscopy (STED, Lattice Light Sheet) as well as state-of-the-art spinning disk and confocal microscopes will be available. The postdoc will develop innovative and ambitious approaches to reveal the molecular origins of chromosome segregation errors in cell lines and organoids, their propagation over generations and impact on genome integrity.

A two-year contract with the possibility of extension will be offered. Net salary is competitive and adapted to previous experience, skills and years of employment. Start date is flexible.

Please send a CV, a cover letter, a research statement summarizing previous work experience and research interests, and contact information of three references to Iva Tolić at tolic@irb.hr by October 20.



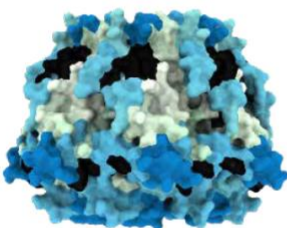
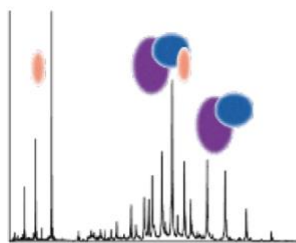
[WS] Inserm Workshop 262, Mass Spectrometry for Structural Biology

Mass Spectrometry for Structural Biology, that will take place in January 2022 in Bordeaux for the critical assessment. Technical phase II will follow in February 2022.

Information and registration: ateliers@inserm.fr

<https://tinyurl.com/3kt5axhx>

Registration deadline *October 29th, 2021*.



PHASE I – CRITICAL ASSESSMENT

January 11-13, 2022 - Bordeaux

TOP-DOWN MASS SPECTROMETRY

Frank SOBOTT (University of Leeds, GBR), Michal SHARON (Weizmann Institute, ISR), Julien MARCOUX (IPBS, FRA), Alain BECK (Pierre Fabre, FRA)

NATIVE MASS SPECTROMETRY AND ION MOBILITY

Justin BENESCH (University of Oxford, GBR), Valérie GABELICA (IECB, FRA), Kostas THALASSINOS (UCL, GBR), Cherine BECHARA (IGF, FRA), Charlotte UETRECHT (Heinrich Pette Institute, DEU)

HYDROGEN-DEUTERIUM EXCHANGE COUPLED TO MASS SPECTROMETRY (HDX-MS)

Sébastien BRIER (Institut Pasteur, FRA), Argyris POLITIS (King's College, GBR), Sarah CIANFERANI (IPHC, FRA)

CROSS-LINKING AND INTEGRATIVE MODELING

Carla SCHMIDT (Martin Luther University, DEU), Petr MAN (BioCev, CZE), Matteo DEGIACOMI (Durham University, GBR)



PHASE II – TECHNICAL WORKSHOP

Top-Down - IPBS, Toulouse - Week of 07/02

Native MS & Ion-Mobility - IGF, Montpellier - Week of 14/02

HDX-MS - LSMBO, Strasbourg - Week of 21/02

Hands-on experiments to apply main fundamental aspects developed during Phase I of the workshop. Three different training are proposed together with dedicated bio-informatics tools for data analysis: Native and Ion Mobility MS to analyse multiproteic and ligand binding complexes (IGF, Montpellier), Top-Down MS to identify proteoforms from an immunoprecipitation (IPBS, Toulouse) as well as HDX-MS to study the deuteration of standard proteins (IPHC, Strasbourg).

SELECTION: 8 trainees will be selected for each city among Phase I participants.

