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### **[WS] Hünfeld 2022: Hybrid Workshop on Computer Simulation and Theory of Macromolecules**



Dear friends of biophysics,  
We would like to continue discussing recent advances in biomolecular simulations, and will organize our 'Computer Simulation and Theory of Macromolecules' workshop again – despite the Corona pandemic situation that, unfortunately, remains quite unpredictable. But just in this situation, we think to promote and facilitate the exchange among the biomolecular theory and simulation communities of Germany and its neighboring countries is even more important.

We therefore cordially invite you all and in particular your students and postdocs to participate in the upcoming meeting on April 08-09, 2022.

We are currently planning to hold the meeting on-site and hybrid in the Hünfeld Monastery, obeying all Corona regulations of course, which might or might not imply a reduced number of on-site participants than usual. We will, in any case,



additionally arrange a virtual setup such that people can join the presentations via a video conferencing tool. We also hope we will be able offer a poster session on-site on Friday evening for a limited number of posters, and will definitely provide a virtual platform to include also posters from virtual participants.

We kindly ask for your understanding that this plan might change – also on short notice – but we will do our best to arrange a convenient setup for everyone and hope for lively discussions and knowledge exchange on-site and online nonetheless! Unfortunately, we are not able to refund expenses for travel or accommodations. But we can offer affordable accommodations and meals starting at € 130 to make it easier for students, graduate students and postdocs to attend on-site. Note that, at this stage, the reservation of your accommodation is not yet binding, and no immediate payment is requested. We do not charge any registration fee for online participants.

You are all cordially invited to register your contribution (poster or talk) or participation only by completing our online registration:

<https://survey.academiccloud.de/index.php/858899?lang=en>

at your earliest convenience but by February 2, 2022 at the latest.

With our best regards,

Volkhard Helms, Helmut Grubmüller

PS: For further information on presentation formats and the final meeting setup, please refer to [https://www.mpinat.mpg.de/633602/71\\_huenfeld\\_2022](https://www.mpinat.mpg.de/633602/71_huenfeld_2022)

### **[CS/WB] Seeing into Cells: the 2022 Astbury Conversation**

Seeing into Cells is the theme of the 2022 Astbury Conversation, a two-day online symposium including talks from a prestigious line up of speakers, and which is free to attend.

Whether you are a researcher wanting to know about the latest developments, or you are simply interested in learning more about the hidden - but fascinating – world of macromolecules, the Astbury Conversation will help give you new insights and understanding.

We are once again delighted to welcome a Nobel Prize winner as our keynote speaker. Richard Henderson became a Nobel Laureate in 2017, joining our past speakers Brian Kobilka (Nobel Prize 2012) and Michael Levitt (Nobel Prize 2013) and will deliver the plenary public lecture “Zooming in on the molecules of life”.



Thanks to the support of our sponsors, registration is free at <https://astburyconversation.vfairs.com>

### [CS/WB] The Biophysicist Webinar Series



The fifth webinar in the series will feature authors who have been published in The Biophysicist to discuss how they crafted their research and ideas into a viable article. The following link leads to a registration page and registration is free; there is no requirement to be a member of the US Biophysical Society.

<https://www.biophysics.org/publications/the-biophysicist/webinars>

### [CONF] 4th meeting on “Molecular basis for membrane remodelling and organization”

Dear colleagues,

Jacques Monod Conferences announces the 4th meeting on “Molecular basis for membrane remodelling and organization”. The goal of this international event is to illustrate how novel opportunities for discovery in membrane biology arise when the most urgent challenges in the field are addressed from fresh angles based on innovative tools and concepts from cryo-electron microscopy, chemical biology, metabolism, biophysics, computational biology, and systems biology.

This meeting will take place from May 16-20, 2022, in the beautiful small town of Roscoff in Brittany (France). It will be limited to a maximum of 150 people in a format that encourages interactive discussions of latest research in these areas, with much room for contributions from young scientists. 17 oral communications will be selected from submitted abstracts.

Inscriptions need to be done via the following website: <https://cjm2-2021.sciencesconf.org/>

The deadline for inscriptions is set to January 31st, 2022.

We hope to see you in May 2022 in Roscoff!

Best wishes,

Anne-Claude Gavin and Ludger Johannes

International Membranes Biophysics Meeting - May 23rd to 25th 2022 in Drübeck



### [CfPo] 4-5 Postdoc & PhD student positions in Computational Biophysics (Helsinki, Finland)

Employer: Department of Physics, University of Helsinki, Finland

Contact: Prof. Ilpo Vattulainen (Ilpo.Vattulainen@helsinki.fi)

Website: <https://www.helsinki.fi/en/researchgroups/biophysics>

Expires: Primary deadline February 07, 2022

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, chemistry, machine learning, 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. Applicants with an enthusiasm to develop large-scale physics-based (coarse-grained) cellular models are particularly encouraged to apply.

The postdocs and PhD students will be part of the computational biophysics group directed by Ilpo Vattulainen. The team has ~20 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. 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 Program, EU, Academy of Finland, etc. Collaborations with experimental teams are strong and the projects will be linked to the Center of Excellence in Biological Barrier Mechanics & Disease (<https://barrierforce.utu.fi/>) (funded between 2022-2029), where the Vattulainen group joins forces with 4 top-notch experimental teams to reveal how cell layers perform their protective functions and how these are disrupted in disease.

Funding for the Positions. The gross salary will be about 3500-4300 EUR/month for postdocs, and about 2400-3300 EUR/month for PhD students (depending on experience).

Projects. The projects will focus on investigations of large-scale cell layers linked to atomistic/molecular studies of membrane-associated receptor/protein complexes with an objective to understand how they function in native conditions, how and why their activation and function is disrupted, and how these can be rectified. The projects relate to numerous diseases such as ARDS, neurodegenerative disorders, and diabetes. The research is strongly coupled to



collaborations with several first-class experimental teams. Detailed project description will be given during the interviews. Computing Resources. Successful candidates will have access to outstanding supercomputing resources that include the national center (14 petaflops, [www.csc.fi](http://www.csc.fi)) and the pre-exascale computing capacity LUMI (550 petaflops, <https://www.lumi-supercomputer.eu/>), which is currently the most powerful supercomputer globally.

Applications. 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). Recommendation letters are not necessary at this stage. Applications are considered during the interview process until the positions have been filled. Applicants short-listed for the interviews & positions will be contacted personally.

