

The 3rd MOSBRI scientific conference will be held in Ljubljana, Slovenia

Registration is now open for the 3rd MOSBRI conference, which is being organised by the National Institute of Chemistry, Ljubljana (Slovenia). The conference will start in the early afternoon of the 10th of June and end at noon on the 13th of June 2024.



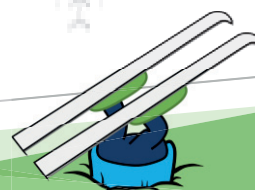
The 3rd MOSBRI conference follows in the footsteps of the first two MOSBRI conferences in Paris 2022 and Zaragoza 2023, both of which attracted almost 200 participants from across Europe. The 3rd MOSBRI conference will continue to provide a carefully curated overview of the latest advances in biophysics, bringing together the new generation of young European biophysicists with established experts in the field. The conference continues to strengthen the connection within a wider community of researchers from the fields of structural biology, biochemistry, synthetic biology and biophysics, building bridges between different disciplines and engaging the audience in a multidisciplinary dialogue.

Lectures will include plenary talks by Lynne J. Regan (University of Edinburgh, UK), Roman Jerala (NIC, Slovenia), Harald Schwalbe (Goethe University, Germany) and Andrej Sali (UCSF, USA), as well as 18 presentations by invited renowned experts from 12 countries worldwide. As at the two previous MOSBRI conferences, beneficiaries of MOSBRI transnational access (TNA) will give presentations on their work facilitated by access to the MOSBRI infrastructure. To ensure that the audience is informed about the latest advances in the innovative tools available, several presentations will be given by company representatives. To promote the visibility of young researchers, about 20 short presentations will also be selected from the abstracts of early bird registrants. The full list of confirmed speakers can be found at <https://www.mosbri.eu/events/conferences/ljubljana-2024/speakers-ljubljana/> and the full conference program will be announced shortly.

Please note that we will grant 15 bursaries to PhD students and early stage post-doctoral fellows. The bursaries will cover the registration fee and accommodation for 3 nights. Apply by the 31st of March 2024 and upload a single pdf file containing a short CV, a letter of motivation and a letter of support (max. 1 page for each).

Visit the conference website for more details and to register:

<https://www.mosbri.eu/events/conferences/ljubljana-2024/>



Protein standards

Studies of the cause of fire blight disease in the Rosaceae family: a trans-national access project at MOSBRI partner MoB-IBT

The MOSBRI TNA site ISMB-BIOPHYSX - Biomolecular characterization, optimisation and interactions

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The Centre is experienced in working with a wide range of users. In addition to structural biologists, we have users engaged in protein engineering, ligand discovery, antibody therapeutic development, chemical kinetics in confined environments and the characterization of membrane proteins and protein/nucleic acid complexes. We encourage prospective users interested in specific techniques and those who wish to take advantage of our broad range of equipment for earlier stage characterisation of their biomolecules aimed at optimisation for future detailed study.

MOSBRI courses in the second half of 2023

In the second half of 2023, **MOSBRI** organised 3 courses, one Advanced Level School (ALS) and two End-user Short Courses (ESC).

ALS1: Protein Stabilization: Design, Experiments and Assessment (ProteSta)

This 5-day school was held at the Institute BIFI, Zaragoza, Spain (BIFI-LACRIMA) from the 3rd to 7th of July 2023. Twenty participants from 14 countries (Austria, Belgium, Czech Republic, Denmark, France, Germany, Italy, Malta, Norway, Portugal, Slovakia, Spain, Sweden, and the United Kingdom) attended. The course covered fluorescence spectroscopy, circular dichroism and differential scanning calorimetry, as well as different approaches for protein engineering directed at improving stability. The sessions included practical tutorials on data analysis and computational calculations and further discussion of the results. Participants had the opportunity to describe their own projects related to protein stability.



*Participants and organisers of the **MOSBRI** ALS1 course in Zaragoza*

ESC4: Advanced kinetics approaches to unravel protein structure and function

The Sapienza University of Rome, Italy (DSB-UROM) held this course focused on kinetic and spectroscopic techniques from the 2nd to the 4th of October 2023. Nine participants from 5 countries (Italy, Czech Republic, Germany, France, and The Netherlands) learned about techniques such as stopped-flow, T-jump and Forster resonance energy transfer (FRET). The programme included a half day of theoretical sessions and 1 ½ days of practicals.

The knowledge acquired by the participants during this 2-day course will allow them to dissect kinetic mechanisms involving protein-protein interactions, protein (un)folding, enzyme activity, ligand binding, and FRET.



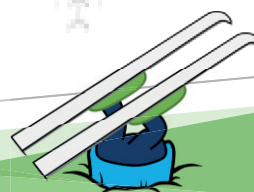
*Participants and organisers of the **MOSBRI** ESC4 course in Rome.*

ESC7: Single Molecule Approaches

The **MOSBRI** course on Single Molecule Approaches took place in Groningen from the 6th to 8th November 2023. Eleven participants from 7 countries (Italy, Germany, Belgium, Turkey, Spain, France, Sweden) attended this 2-day course at the Rijksuniversiteit Groningen (RUG-BP). Its main goal was to teach the participants about the fundamental background and operational procedures of the techniques, as well as performing hands-on practice including sample preparation, set-up operation, data gathering and data analysis. The programme included theoretical sessions on the three techniques, as well as practicals where each participant focused mostly on one of the techniques, with short excursions to the other two techniques.



*Participants and organisers of the **MOSBRI** ESC7 course in Groningen*



Upcoming MOSBRI Courses



The basic level school, BLS2, on **Techniques to study single molecules/particle interactions** will be held from the **13th to 16th of May 2024** in Prague. Read more about this course and apply at:

<https://www.mosbri.eu/training/basic-level-schools/bls2/>

The end-user short course, ESC8, on **Basic and advanced protocols in biological calorimetry** will be held from the **8th to 10th of July 2024** in Zaragoza. More information will be available soon.

The end-user short course, ESC9, on **Correlative microscopy: from cells to single molecules**, will be held in **November 2024** in Genoa. The final dates are still to be confirmed and more information will be available in 2024.

In other news...

MOSBRI publications in 2023

Since January 2023, members and beneficiaries of the project have produced 18 scientific publications acknowledging **MOSBRI**, 16 of them published in open access journals. These publications include projects from TNA users (14), results from JRA activities (1) and conference proceedings (1). You can find the list of publications and the links to access them in our webpage <https://www.mosbri.eu/news-and-output/publications/>

Participation of MOSBRI in events

MOSBRI and the ARBRE association co-organised the session "Breakthrough methods in molecular biophysics" during the EBSA 2023 conference in Stockholm on the 4th of August. The session chaired by Isabel Alves (Bordeaux) and Tomasz Kobiela (Warsaw) was attended by ~100 people. You can find more information about this joint session at <https://www.mosbri.eu/news-and-output/mosbri-arbre-session-at-ebsa2023>



Speakers at the **MOSBRI-ARBRE** organised session at EBSA 2023

Coming up in 2024:

XXVIII School of pure and applied biophysics, 5th to 9th of February 2024 in Venice. Organized by the Società Italiana di Biofisica Pura e Applicata, the school thematic will be Molecule in(ter)action: from nano to macroscale. Three **MOSBRI** Partners (Valérie Belle, Daniel Aili and Claudio Canale) will participate as invited speakers. **MOSBRI** will be advertised during their talks, through the SIBPA webpage and **MOSBRI** brochures distributed to the attendees. Find more information about this school here: <https://venice2024.ibf.cnr.it/>

XXIII Annual Linz Winter Workshop 2024, 2nd to 5th February in Linz, Austria. The event will focus on biological single-molecule research, nanoscience, nanomedicine, cell science, and bio-nanotechnology and include force and optical microscopy/spectroscopy techniques. Claudio Canale (University of Genoa) will be one of the invited speakers and will advertise **MOSBRI** during his presentation and with a poster. Find further information and registration details here: <https://www.jku.at/institut-fuer-biophysik/veranstaltungen/linz-winterworkshop/>

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