FEBS-IUBMB- enable

2nd International Molecular Biosciences PhD and Postdoc Conference

The emerging challenge
Environmental impacts on human health

23rd-25th November 2023
University of Cologne, Germany

Sponsorship information
https://febs-iubmb-enableconference.org
What is FEBS-IUBMB-ENABLE?

The FEBS-IUBMB-ENABLE conference is an international, interdisciplinary three-day event entirely organized by and for young researchers – PhD students and postdocs – from the molecular life sciences disciplines, bringing together up to 300 participants from all over the world.

The FEBS-IUBMB-ENABLE conference series is a joint initiative of the Federation of European Biochemical Societies (FEBS), the International Union of Biochemistry and Molecular Biology (IUBMB) and four leading biomedical research institutes across Europe: the Institute for Research in Biomedicine – IRB (Barcelona, Spain), the Research Institute of Radboudumc (Nijmegen, The Netherlands), the Novo Nordisk Foundation Center for Protein Research – NNF CPR (Copenhagen, Denmark), and the European School of Molecular Medicine – SEMM (Milan, Italy), together with the Institute of Biomedicine of Seville – IBiS (Seville, Spain), where the 2022 event was held and the University of Cologne – UoC (Cologne, Germany), where the event will be held in 2023.

FEBS-IUBMB-ENABLE aims to promote excellence in molecular life sciences, linking science, career, and communication with the general public. For this purpose, the annual gatherings comprise various parts: a scientific symposium, which seeks to explore the latest research and pioneering developments in biomedical research; a wide range of activities focused on employment opportunities, including a career day, career workshops and a job fair, as well as diverse outreach activities to engage with the public, thereby giving all stakeholders a voice on biomedical discoveries.
More about FEBS-IUBMB-ENABLE

**FEBS | The Federation of European Biochemical Societies**

The Federation of European Biochemical Societies, founded in 1964, is one of Europe's largest organizations in the molecular life sciences. It has over 35,000 members across more than 35 biochemistry and molecular biology societies (its 'Constituent Societies') in different countries of Europe and neighboring regions. FEBS promotes and supports biochemistry, molecular biology, cell biology, molecular biophysics, and related research areas through its journals, Congress and Young Scientists' Forum, advanced courses, fellowships, and other initiatives, some of them in collaboration with other organizations such as IUBMB, PABMB and EMBO.

**IUBMB | The International Union of Biochemistry and Molecular Biology**

The International Union of Biochemistry and Molecular Biology, founded in 1955, unites biochemists and molecular biologists in 75 countries and regions that belong to the Union as an Adhering Body or Associate Adhering Body represented by a biochemical society, a national research council or an academy of sciences. The IUBMB is devoted to promoting research and education in biochemistry and molecular biology throughout the world and gives particular attention to promoting opportunities for trainees in areas where biomolecular science are less developed. It achieves this in several ways: a triennial international congress, focused meetings, workshops, symposia, fellowships, and journals. The IUBMB works closely with the four Regional Organizations that unite the biochemical societies of Asia and Oceania (FAOBMB), Europe (FEBS), the Americas (PABMB), and Africa (FASBMB).

**ENABLE | European Academy for Biomedical Science**

ENABLE started as an initiative funded by the European Union Horizon 2020 program to promote European excellence in biomedical science with an annual 3-day international event that included a scientific symposium, career development sessions, and outreach activities. ENABLE involved four renowned European research institutes: IRB in Barcelona (Spain), RIMLS in Nijmegen (The Netherlands), NNF CPR in Copenhagen (Denmark), and SEMM in Milan (Italy) as well as an innovative science communication agency (Scienseed). Since 2021 IBiS in Seville (Spain) and University of Cologne (Germany) are also involved in the organization, serving as host institutes for the conferences held in 2022 and 2023.

Now FEBS and IUBMB, who sponsored all the previous ENABLE conferences, have secured the continuity of FEBS-IUBMB-ENABLE for 2022-2025, making this an international event for young scientists from all around the world.
The theme of FEBS-IUBMB-ENABLE 2023 conference is “The emerging challenge: environmental impact on human health”. This conference will bring young scientists together and keep them at the forefront of latest developments in the field of biomedicine and beyond. The conference will highlight the latest discoveries regarding the impact of environmental changes on living systems. Specifically, it will focus on the interplay of the environment with enhanced chronic diseases, increased new infectious diseases and the epigenetic basis of adaptation and responses to environmental change. While exploring a wide range of cutting-edge research techniques, the conference will illustrate the importance of multidisciplinary collaboration among researchers to foster scientific discoveries. It will also feature exciting debates as an opportunity for the scientific community to share knowledge with the general public and stimulate discussion.

Unlike most other conferences, the program is entirely devised by young researchers. The FEBS-IUBMB-ENABLE 2023 audience will include up to 300 PhD students and postdocs, while the outreach activities will engage with local citizens, students, and scientific community. Keynote lectures will be delivered by international experts, and the opportunity fair will feature industry professionals in the biotechnological and pharmaceutical sectors.

23rd-25th November 2023

The University of Cologne (UoC) covers a broad field of disciplines with a strong focus in Life Sciences and has a long history of intense scientific and strategic collaboration that connects basic research to translational medicine. The Faculty of Mathematics and Natural Sciences (FMNS) as well as the Faculty of Medicine (FM) along with the University Hospital Cologne (UHC) have developed a vibrant interdisciplinary Life Science Campus consisting of the Center for Molecular Medicine Cologne (CMMC), the Cologne Excellence Cluster Cellular Stress Responses in Aging-Associated Diseases (CECAD), the Cologne Center for Genomics (CCG), as well as the Max Planck Institutes for Biology of Ageing (MPI-AGE) and Metabolism Research (MPI-MR) along with seven collaborative research centres.
FEBS-IUBMB-ENABLE 2023 Conference

Confirmed speakers

INSIGHTS INTO COMPLEX DISEASES

■ PROF. SERENA NIK-ZAINAL
Professor of Genomic Medicine and Bioinformatics, Academic Department of Medical Genetics at the University of Cambridge, United Kingdom
Studied mutational signatures linked to cancer etiology, particularly mutations caused by environmental carcinogens
Large-scale Whole Genome Sequencing

■ PROF. DIRK HALLER
Chair of Nutrition and Immunology and director of the ZIEL Institute for Food and Health, Technical University of Munich, Germany
Studies how nutrition and changes in the microbial environment influence the pathogenesis of complex disease.
Novel mouse models for mitochondrial dysfunction

COMPUTATIONAL MODELLING

■ DR. FERNANDA PINHEIRO
Research Group Leader at Human Technopole at Milan, Italy
Studies antibiotic resistance evolution in microbial communities.
Systems biology approaches, evolutionary modelling and computational methods

■ DR. FRANCESCO PAOLO CASALE
Principal Investigator at TUM / Helmholtz Institute of AI for Health, Munich, Germany
Studies the interplay of genetic and environmental factors in disease severity and progression.
Machine learning, statistical inference and system genetics
FEBS-IUBMB-ENABLE 2023 Conference

Confirmed speakers

NOVEL EXPERIMENTAL MODEL SYSTEMS

- **DR. MARIA BERNABEU**
  Group Leader at the European Molecular Biology Laboratory (EMBL), Barcelona, Spain
  Studies the Blood Brain Barrier and its interaction and disruption by malaria.
  In vitro 3D blood-brain barrier model

- **DR. SOLENN PATALANO**
  Junior Researcher at the Institute for Fundamental Biomedical Research (IFBR), B.S.R.C 'Alexander Fleming', Athens, Greece
  Studies the effects of pesticides on memory of honeybees and environmental DNA contained in honey.
  Honeybees as biomonitoring species

EPIGENETICS AND EXPOSOME

- **DR. DAVID AYLOR**
  Group Leader at North Carolina State University, North Carolina, USA
  Studies how genetic and epigenetic variation can explain complex traits and how early exposure to the environment can alter our genes and health as adults
  Bioinformatics approaches to systems genetic data

- **PROF. MARTIN HOWARD**
  Group leader and Head of Computation and Systems Biology at John Innes Centre, Norwich, United Kingdom
  Studies how environmental changes could influence growth and epigenetic memory in plants and how these mechanisms could be translated to other species
  Applying concepts from statistical physics to molecular biology
Why sponsor FEBS-IUBMB-ENABLE?

Sponsoring the FEBS-IUBMB-ENABLE PhD and Postdoc Conference will...

- ...give you the opportunity to present job openings and activities to a community of talented young scientists during the Opportunity Fair.

- ...give your organization high visibility among an international audience of young researchers and high profile scientists.

- ...bring your organization into public view, thanks to the strong connection between science and outreach activities.

- ...allow us to cover event-related costs, subsidize travel expenses, and make our conference a great place in which young scientists and professionals can exchange ideas and network.

- ...give you the opportunity to work with the FEBS-IUBMB-ENABLE consortium towards bridging science and society together and building the future of science.

Previous ENABLE events
## Sponsorship packages

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<tr>
<th>SPONSORSHIP PACKAGE</th>
<th>PLATINUM €3500</th>
<th>GOLD €2500</th>
<th>SILVER €1000</th>
<th>JOB FAIR €250</th>
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<td>Possibility to sponsor a prize for the best short talk</td>
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<td>Possibility to sponsor a prize for the best poster</td>
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If you wish to discuss other visibility opportunities, please do not hesitate to contact us. Our team is ready to design a personalized package on-demand, tailored to your needs.

**CONTACT INFORMATION**

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https://febs-iubmb-enableconference.org