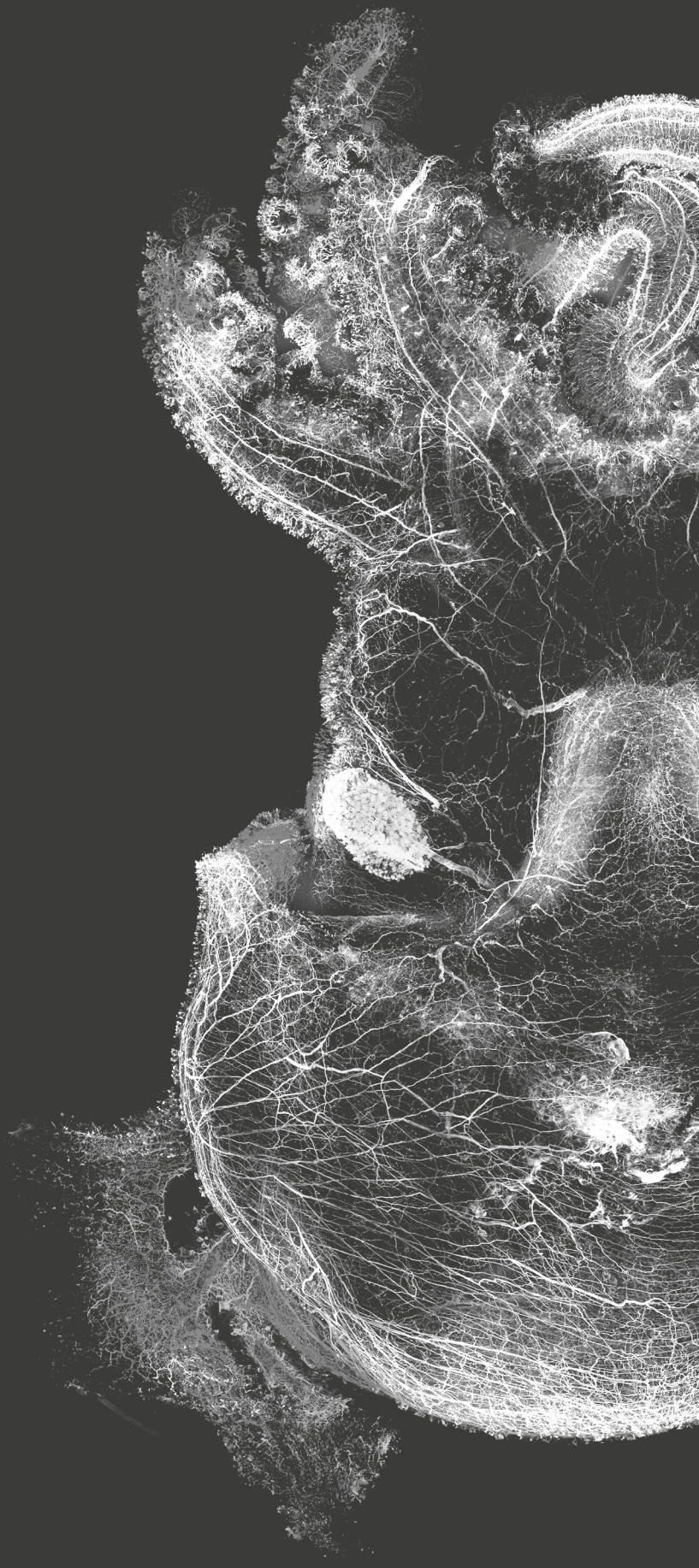
EMBO

2022

Facts & figures

with annual report

EMBO Facts & figures
with annual report **2022**



Euprymna
Original image courtesy of David Hain and EMBO Member Gilles Laurent

Preface

The year 2022 will be remembered as the year in which the conflict in Ukraine started. It is a reminder that freedom and international exchange are core values for science that cannot be taken for granted. EMBO has continued to pursue its mission of promoting life sciences across national borders and, thanks to stable funding from EMBC, has been able to rapidly initiate activities in support of Ukrainian scientists.

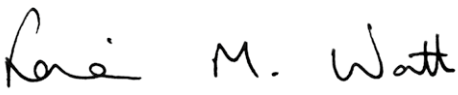
Here we report on the EMBO Programmes and activities of 2022. We launched the EMBO Solidarity Grants for life scientists displaced by armed conflicts in Ukraine or elsewhere. I was pleased that the solidarity list EMBO set up in March received more than 500 offers of assistance for Ukrainian researchers.

Throughout the year, the initiative to increase participation in the EMBO Programmes across Europe expanded. EMBO added new schemes and support offerings, and Greece and Hungary joined as the latest EMBC Member States. Life scientists in or going to eleven countries can now benefit from the initiative.

In 2022, EMBO welcomed 67 new EMBO Members and Associate Members, 24 Young Investigators, 11 Installation Grantees and 8 Global Investigators, and awarded 228 EMBO Postdoctoral Fellowships. I am delighted that the number of face-to-face scientific exchanges across borders reached the level of 2019 again: We awarded 381 EMBO Scientific Exchange Grants and funded a record number of 135 EMBO Courses and Workshops. Regardless of the easing of the pandemic, EMBO continued supporting hybrid conference formats to enhance inclusion and sustainability.

The year brought good news for Open Science. In a landmark decision, the German Federal Financial Court recognized that scientific editing, peer review and Open Access publication foster science and are therefore in the public interest. Review Commons, a platform with 17 affiliate journals, made preprint peer review fully transparent, and EMBO endorsed reviewed preprints in the evaluation of applications for postdoctoral fellowships. EMBO is leading the way in support for innovative publishing processes and for early-career scientists.

In closing, I sincerely thank the EMBC President and Delegates, the EMBO Members serving on Council and Committees, and the EMBO staff for their committed work to promote excellence in life sciences in Europe and beyond.



Fiona Watt
EMBO Director

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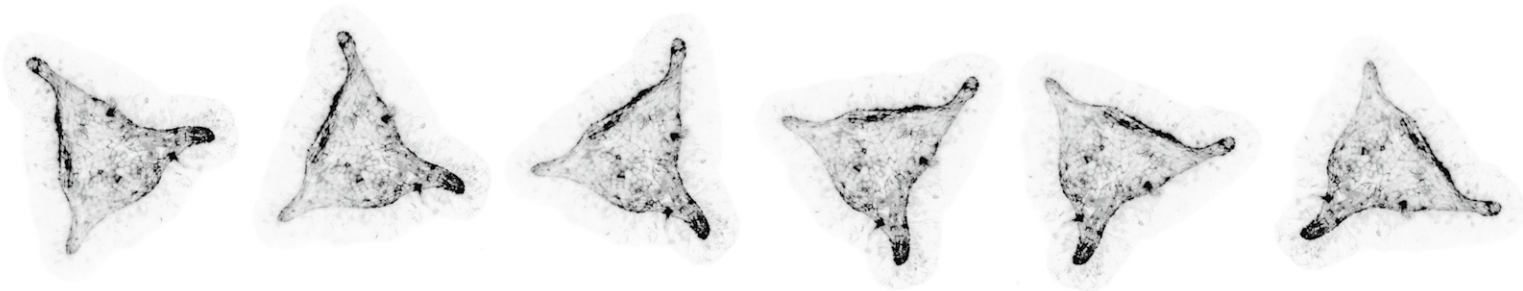
Mission

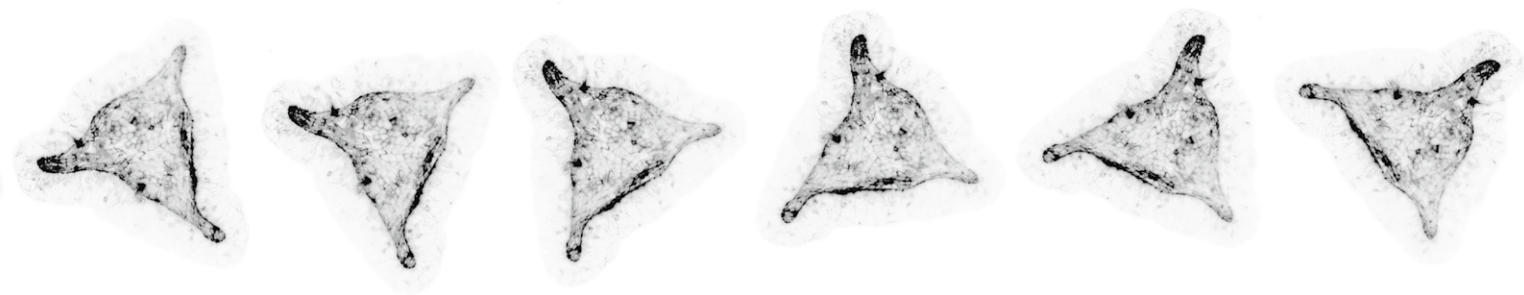
EMBO stands for excellence in life sciences



EMBO is an organization of more than 1,900 leading researchers that promotes excellence in the life sciences in Europe and beyond. The major goals of the organization are to support talented researchers at all stages of their careers, stimulate the exchange of scientific information, and help build a research environment where scientists can achieve their best work.

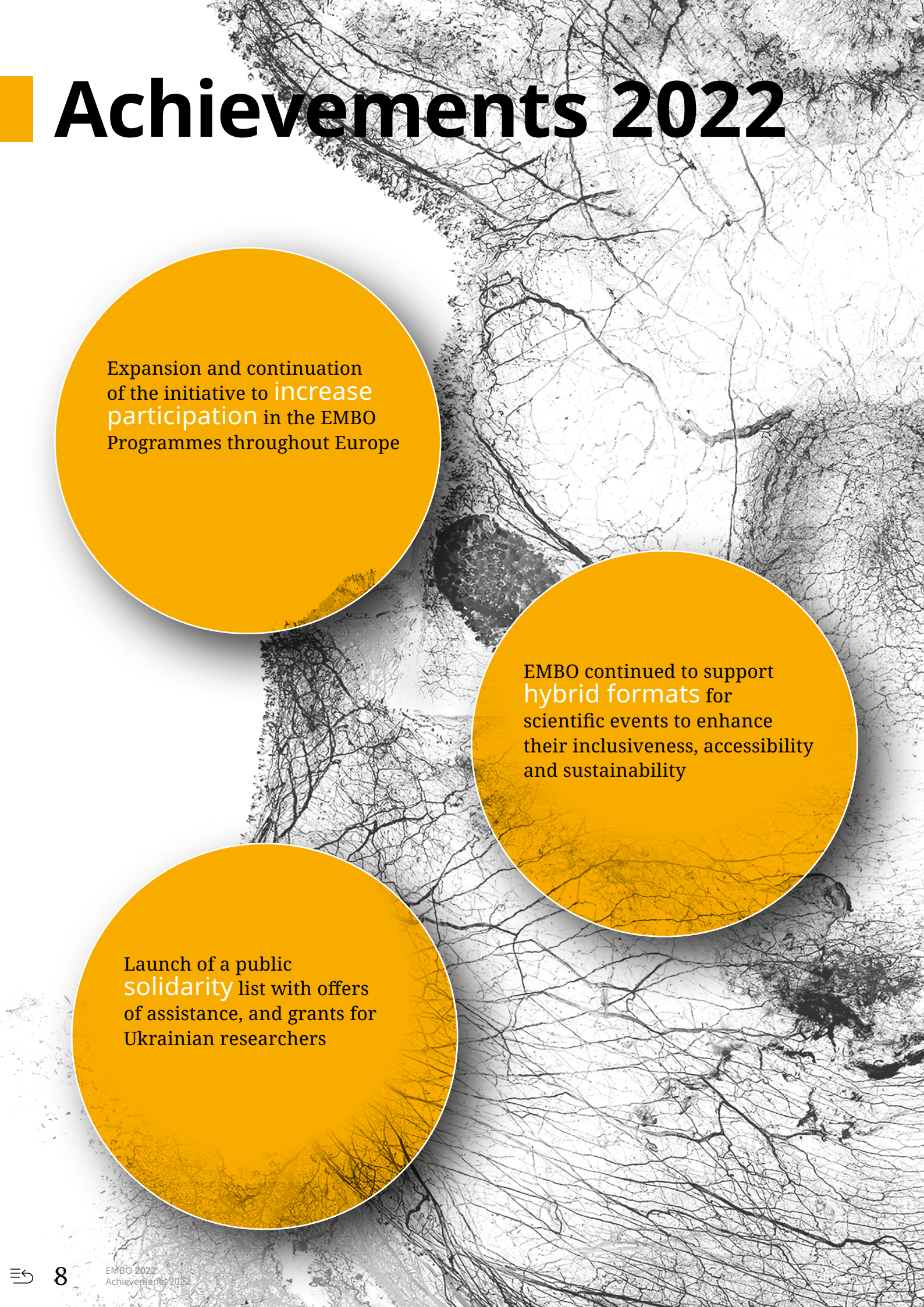
EMBO helps young scientists to advance their research, promote their international reputations and ensure their mobility. Courses, workshops, lectures and EMBO Press publications disseminate the latest research and offer training in techniques to maintain high standards of excellence in research practice. EMBO helps to shape science policy by seeking input and feedback from our communities and by following closely the trends in science.

EMBO supports talented researchers, selected through impartial evaluation processes, to allow them to do great science. The wide scientific scope across the full range of life science research coupled with the broad geographical reach of more than 1,900 members and associate members – some of the best researchers in Europe and around the world – positions EMBO optimally to serve the life science community.



Original image courtesy of EMBO Member Prisca Liberali

Achievements 2022



Expansion and continuation of the initiative to increase participation in the EMBO Programmes throughout Europe

EMBO continued to support hybrid formats for scientific events to enhance their inclusiveness, accessibility and sustainability

Launch of a public solidarity list with offers of assistance, and grants for Ukrainian researchers

Refereed preprints

regarded as equivalent to publications in journals for applications for EMBO Postdoctoral Fellowships

Review Commons

made preprint peer-review fully transparent

The German Federal Financial Court recognized that editing, peer review and the associated Open Access publication of papers foster science and are therefore of public interest

Euprymna
Original image courtesy of David Hain and EMBO Member Gilles Laurent

EMBO impact in numbers 2022

>121,000 preprints accessible via Early Evidence Base

18,023 preprint-linked peer reviews accessible via Early Evidence Base

7,936 figure-data packages from **485** papers curated by SourceData

1,964 members altogether in **34** countries with **91** Nobel laureates among them

757 articles published in EMBO Press journals *(excludes Life Science Alliance)*

260 Review Commons submissions posted as reviewed preprints **118** published in a partner journal

381
scientific exchanges
funded between researchers from
23 countries

228
postdoctoral researchers
funded in
22 countries

135
practical courses, workshops,
lecture courses and symposia
funded or co-funded in
27 countries, hybrid and virtual format

24
EMBO Young Investigators
awarded in
11 countries

11
EMBO Installation Grantees
awarded in
7 countries

8
EMBO Global Investigators
awarded in
4 countries

7
further grants
awarded to scientists in
6 countries

Original image courtesy of EMBO Young Investigator Debojyoti Chakraborty

EMBC

EMBC Member States | *Delegates and Advisors*

Austria	Dr Hemma Bauer Federal Ministry of Education, Science and Research
Belgium	Ms Maria-Helena Bosschaerts Belgian Science Policy Office
Croatia	Dr Lovorka Barać Lauc Croatian Science Foundation
Czech Republic	Mr Jan Buriánek Ministry of Education, Youth and Sports
Denmark	Ms Line Bekker Poulsen Ministry of Higher Education and Science
Estonia	Prof Maia Kivisaar University of Tartu
Finland	Prof Johanna Myllyharju University of Oulu
France	Dr Elena Hoffert Ministère de l'Education Nationale, de l'Enseignement Supérieur et de la Recherche
Germany	Dr Barbara Ohnesorge Federal Ministry of Education and Research
Greece	Prof Nektarios Tavernarakis Medical School, University of Crete
Hungary	Mr Gergely Boehm Hungarian Academy of Sciences
Iceland	Prof Zophonías Oddur Jónsson University of Iceland
Ireland	Dr Maria Nash Science Foundation Ireland
Israel	Dr Iris Eisenberg Ministry of Innovation, Science and Technology
Italy	Prof Lucia Banci University of Florence
Lithuania	Dr Milda Jodinskiene Research Council of Lithuania
Luxembourg	Ms Stephanie Schott Ministère de l'Enseignement Supérieur et de la Recherche
Malta	Dr Joseph Borg University of Malta
Montenegro	Ms Ivana Lagator Ministry of Science and Technological Development
Netherlands	Prof Anna Akhmnova Utrecht University
Norway	Dr Line M. Grønning-Wang The Research Council of Norway
Poland	Prof Leszek Kaczmarek Nencki Institute of Experimental Biology of the Polish Academy of Science
Portugal	Ms Luisa Igreja Ministry of Science, Technology and Higher Education
Slovak Republic	Mr Marcel Sládok Ministry of Education, Science, Research and Sport of the Slovak Republic
Slovenia	Dr Tomaz Boh Ministry of Education, Science and Sport
Spain	Mr Ignacio Baanante Ministry of Science and Innovation
Sweden	Prof Björn Andersson Karolinska Institute
Switzerland	Dr Doris Wohlfender-Bühler State Secretariat for Education, Research and Innovation
Türkiye	Prof Ahmet Ademoglu Bogazici University
United Kingdom	Dr Mark Palmer Medical Research Council

EMBC Associate Member States

India	Abhishek Singh
Singapore	Samantha J. Liew

EMBC/EMBO co-operation partners

National Agency for Research and Development (ANID) of Chile
(former CONICYT)

National Science and Technology Council (NSTC) of Taiwan
(former MOST)

Dr Christa Schleper
University of Vienna, Archea Biology and Ecogenomics Unit

Dr Laurent Ghys
Belgian Science Policy Office

Mr Alain Heynen
Belgian Science Policy Office

Prof Cédric Blanpain
Université Libre de Bruxelles (ULB)

Mr Savvas Savvides
VIB Center for Inflammation Research

Prof Vesna Boraska Perica
Split University Medical School

Prof Zdena Palková
Charles University

Ms Nynne Lucca Christiansen
Ministry of Higher Education and Science

Prof Kaare Teilum
University of Copenhagen

Dr Toivo Raim
Ministry of Education and Research

Dr Sirpa Nuotio
Academy of Finland, Biosciences, Health and Environment Research

Dr Anne Paoletti
Ministère de l'Enseignement Supérieur de la Recherche et de l'Innovation

Prof Peter Becker
Ludwig-Maximilian University

Prof Eleftheria Zeggini
Helmholtz Zentrum München

Ms Panagiota Katsafana
Ministry for Development and Investments

Prof Ferenc Nagy
Hungarian Academy of Sciences

Prof Eiríkur Steingrímsson
University of Iceland

Ms Noelle Waldron
Department of Further and Higher Education, Research, Innovation and Science

Prof Joel Sussman
Weizmann Institute of Science

Mr Barak Gatenyo
Ministry of Innovation, Science and Technology

Dr Alessandro Boero
Ministry of University and Research

Ms Alessandra Lanari
Ministry of Economy and Finance

Prof Virginijus Šikšnys
Vilnius University

Ms Lidija Vukčević
Ministry of Science and Technological Development

Mrs Jennifa Dorleijn
Ministry of Education, Culture and Science

Mrs Mirjam Lieshout-Vijverberg
Ministry of Education, Culture and Science

Prof Inge Jonassen
University of Bergen

Ms Maria Klimkiewicz
Ministry of Education and Science

Prof Cláudio Sunkel
Universidade do Porto

Prof Ján Turňa
Science Park of Comenius University in Bratislava

Mr Andrej Ograjenšek
Ministry of Education, Science and Sport

Prof Boris Turk
Josef Stegan Institute

Dr Cristina Bauluz
Secretariat of State for Science, Technology and Innovation

Prof M. Angela Nieto
Instituto de Neurociencias CSIC-UMH

Ms Inmaculada Figueroa
Ministry of Science and Innovation

Dr Maria Thuveson
The Swedish Research Council

Dr Helena Berglund
The Swedish Research Council

Prof Anna Jazwinska-Müller
University Fribourg

Dr Laurent Salzarulo
State Secretariat for Education, Research and Innovation

Dr Jale Sahin
TÜBİTAK

Mr Tim Willis
Biotechnology and Biological Sciences Research Council

Manish Rana

Andrea Cibotti Ortiz

Ching-Mei Tang

The European Molecular Biology Conference (EMBC) is an inter-governmental organization comprising 30 member states. It funds the EMBO Programmes and activities that support excellent life scientists. EMBC and EMBO also co-operate with countries and organizations beyond Europe to foster interactions with international scientific communities.

Leszek Kaczmarek
EMBC President

EMBC

EMBO Membership

As a membership organization, EMBO owes its reputation and impact to the quality and dedication of its community of more than 1,900 EMBO Members. The members apply their expert insight to guide the execution of all EMBO initiatives through scientific peer review and by serving on EMBO Council, Committees and Advisory Boards. As a result, EMBO Members collectively influence the future direction of life science research and strengthen the research communities across Europe.

Complementing the EMBO Members working in the EMBC Member States, a number of EMBO Associate Members join the organization from countries in other parts of the world each year. The EMBO Associate Members add a global perspective to the current activities and future directions of EMBO.

In 2022, 67 life scientists were elected to the EMBO Membership:

While EMBO Membership is a lifelong honour, an efficient annual nomination and election process ensures that the scope of EMBO remains broad and open, with the flexibility to expand into emerging areas and to embrace new concepts in the life sciences. As a consequence, the scope of the organization has grown and evolved from its deep historical roots in the molecular biology of the 1960s to the postgenomic life sciences.

58 EMBO Members and nine Associate Members. The newly elected members reside in 22 countries, and 24 of them (36 %) are women.

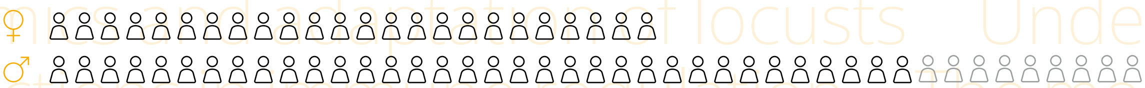
© EMBL Photolab/Stuart Ingham

EMBO MEmbers' Meeting 2022, Heidelberg, Germany

New EMBO Members 2022

New EMBO Members 2022

New EMBO Associate Members 2022



New EMBO Members 2022

Stein **Aerts**
Ivan **Ahel**
Sigal **Ben-Yehuda**
Guillaume **Charras**
Menna R. **Clatworthy**
Virginie **Courtier-Orgogozo**
David **Drew**
Miki **Ebisuya**
Johan **Elf**
Ralf **Erdmann**
Sarah-Maria **Fendt**
Friedrich **Frischknecht**
Richard J. **Gilbertson**
Florent **Ginhoux**
Cornelius T. **Gross**
Claes M. **Gustafsson**
Ian R. **Henderson**
Andrés **Hidalgo**
Adrian V.S. **Hill**
Gwyneth **Ingram**
Bożena **Kamińska-Kaczmarek**
Beat **Keller**
Romain **Koszul**
Benoit **Ladoux**
Madeline A. **Lancaster**
Edward A. **Lemke**
Prisca **Liberali**
Marina **Mapelli**
Francisco J.M. **Mojica**
Jens **Nielsen**
Raquel A. **Oliveira**
Anne **Osbourn**
Francesco **Pennacchio**
Stefan M. **Pfister**
Paola **Picotti**
Gaia **Pigino**
Šárka **Pospíšilová**
Simona **Radutoiu**
Julian C. **Rayner**
Peter **Rehling**
Carlos **Ribeiro**
Frank **Schnorrer**
Yang **Shi**
Sara **Sigismund**
María S. **Soengas**
Evi **Soutoglou**
Molly M. **Stevens**
Magali **Suzanne**
Marvin E. **Tanenbaum**
Giuseppe **Testa**
Fabian J. **Theis**
Barbara **Treutlein**
Athanasios **Typas**
Michiel **Vermeulen**
Helen **Walden**
Cisca **Wijmenga**
Ofer **Yizhar**
Johannes **Zuber**

Find all 2022
EMBO Members' research interests
from page 80 onwards.

New EMBO Associate Members 2022

Nick **Barker**
J. Wade **Harper**
Le **Kang**
Nevan J. **Krogan**
Gabriel A. **Rabinovich**
Jamie **Rossjohn**
Rajan **Sankaranarayanan**
Igor **Stagljar**
Kenneth S. **Zaret**

EMBO Gold Medal

© Photolab/EMBL

The EMBO Gold Medal is awarded annually to young scientists for outstanding contributions to the life sciences in Europe. The awardee receives a medal and a bursary of 10,000 euros.

The molecular cell biologist receives the medal for her exceptional contributions to understanding the formation of 3D intestinal organoids, sometimes called “mini-guts”, from stem cells. In recent work, her group characterized the mechanisms that trigger symmetry-breaking during the formation of mouse intestinal organoids, as well as the mechanical forces driving the formation of intestinal crypts.

Seeing is believing

Prisca Liberali

2022 EMBO Gold Medalist and new EMBO Member

Senior group leader at the Friedrich Miescher Institute for Biomedical Research (FMI) in Basel, CH

Liberali is also recognized for developing new quantitative experimental platforms and statistical frameworks that build on her multidisciplinary approach. These include a light-sheet microscope, which enables tracking of individual cells during intestinal organoid development over a timeframe of weeks, and an image-based screening assay for small compounds that has identified novel compounds that improve intestinal regeneration in vivo.

“Prisca Liberali has assembled a highly productive lab at the FMI. Her work uniquely combines the reductionist organoid platform with high-end biophysical, molecular and image-analytical methods. It is clear that this approach has already been hugely successful, while much more is in the pipeline,” says EMBO Member Hans Clevers, head of pharma research and early development at Roche, Switzerland, and advisor/guest researcher at the Hubrecht Institute, the Netherlands, who has pioneered the intestinal organoid system. Liberali has been a visiting scientist in his lab.

The EMBO Gold Medal recipient gave her award lecture at Cell Bio 2022, a joint meeting of ASCB and EMBO, in December 2022.

FEBS | EMBO Women in Science Award

This award is a joint initiative between EMBO and the Federation of European Biochemical Societies (FEBS). It is awarded annually to female life scientists working in Europe who are inspiring role models for future generations. The awardees receive a bronze sculpture and 10,000 euros.

A meeting of minds | Erin Schuman

2022 FEBS | EMBO Women in Science Awardee

Director at the Max Planck Institute for Brain Research in Frankfurt, DE

The neuroscientist receives the award for her outstanding research on synaptic plasticity, and her commitment to supporting women in science at the institutional and personal level. She talks about her research and approach to mentoring.

In 1996, you discovered that local protein synthesis in dendrites has a crucial role for synaptic plasticity. It was a paradigm shift and a starting point of a new research field. Fast forward to 2022, what does your current research focus on? • Today, we explore the parameter space of single neurons quantitatively to understand the dynamics that allow them to maintain or modify their proteome. We and others have found that neurons exploit every chance to diversify, splice or swap elements of mRNAs and proteins to expand the regulatory potential of the basic toolkit all cells have. Recently, we discovered that the mRNAs for ribosomal proteins are synthesized in dendrites and that these locally synthesized ribosomal proteins are exchanged dynamically.

What is your motivation for working in this area? • For me, time is best spent dwelling on understanding the single neuron and its synapses and developing methods that others can use. I like to go deep into quantifying and understanding basic neuronal cell biology because it fascinates me, and I feel that this is where I can contribute most to science. The reason science usually works well is because everyone has a different thing that they love and that they are good at. I found this thing and it is how I like to spend my time.

Neuroscience has benefited enormously from technological advances, including new protein visualization techniques you have developed. How have these advances influenced other fields? • People use our systems in various contexts. For example, they use our BONCAT (bio-orthogonal non-canonical amino acid tagging) technique in cancer and neurodegeneration. Last year, two papers on Charcot-Marie-Tooth disease used our methods to show that dysfunctional protein synthesis lies at the core of the pathology. We have people visiting our lab to learn methods all the time. I love when people come together, a meeting of minds, and seeing the methods we have developed help others solve their questions.

What advice do you give to early-career scientists? • My mentoring is very personal. I have some basic advice I give to all early-career researchers, but I also like to see someone's individual situation and try to understand them and their priorities. One thing I learned is important: be patient with your own journey and associate with people who believe in you. I had a really difficult PhD experience, almost gave up and later found myself at a crossroad where I could have chosen a poor mentor for my postdoctoral research period, but luckily I did not!

What does receiving the FEBS | EMBO Women in Science Award mean to you? • Receiving the FEBS | EMBO Women in Science Award is a huge honour. This recognition is the culmination of a long scientific story that has been revealed together with the many talented scientists I have had the privilege of working with. I smile when I think about each past and present lab member who has contributed to this body of work. As a senior scientist, I am also proud that our efforts to improve the representation and respect for women in science have been recognized.

EMBO survey

The EMBO survey was a major survey of life scientists in Europe and beyond to understand their needs as well as their awareness and perceptions of the EMBO Programmes and scientific publications. 3,533 life scientists from 37 countries took part. 68% of the respondents had engaged with EMBO in some role or capacity.

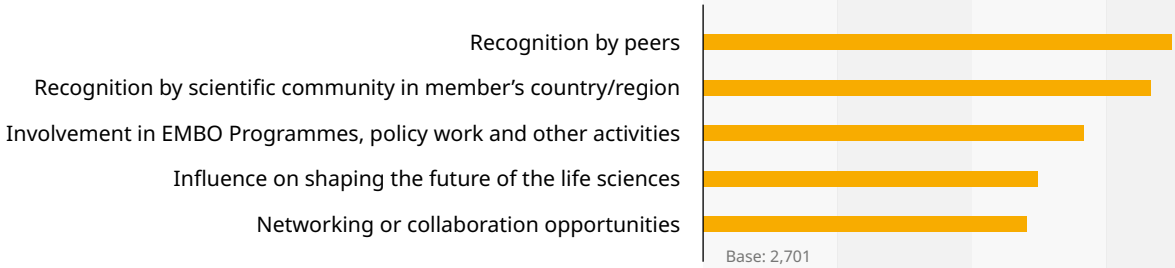
Perception of EMBO

Attributes selected by at least 10% of respondents

Base: 3,312

Value of being an EMBO Member

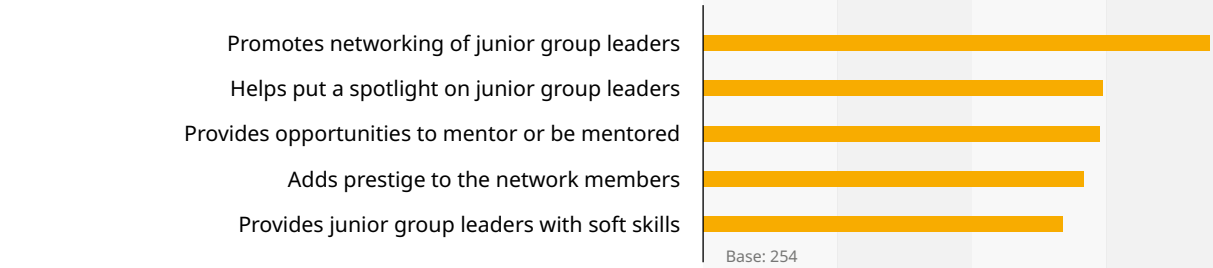
Top five answers given by respondents who were aware of EMBO Membership



Base: 2,701

Purpose of the EMBO Young Investigator Network

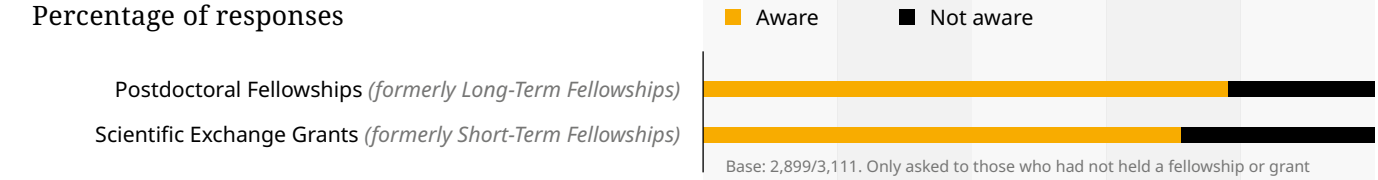
Top five benefits mentioned by current and former EMBO Young Investigators



Base: 254

Awareness of EMBO Postdoctoral Fellowships and EMBO Scientific Exchange Grants

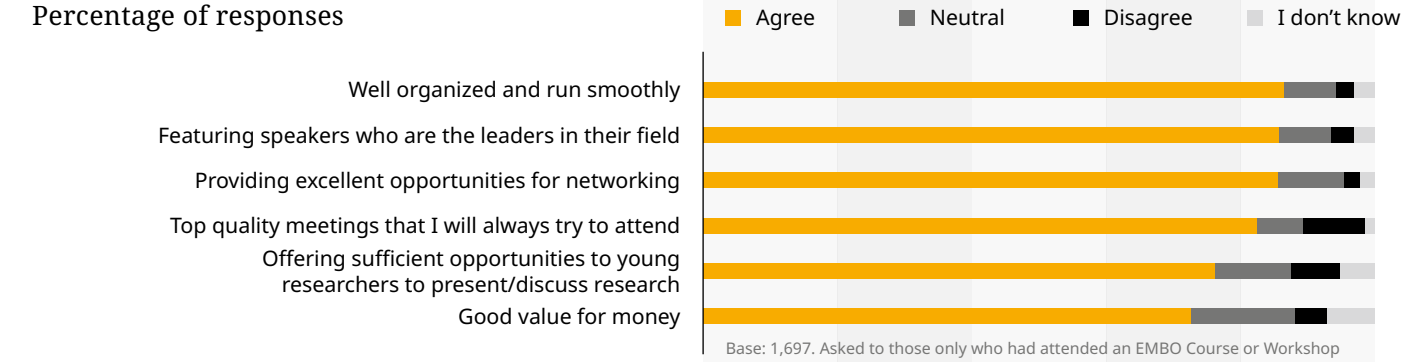
Percentage of responses



Base: 2,899/3,111. Only asked to those who had not held a fellowship or grant

Satisfaction with EMBO Courses & Workshops

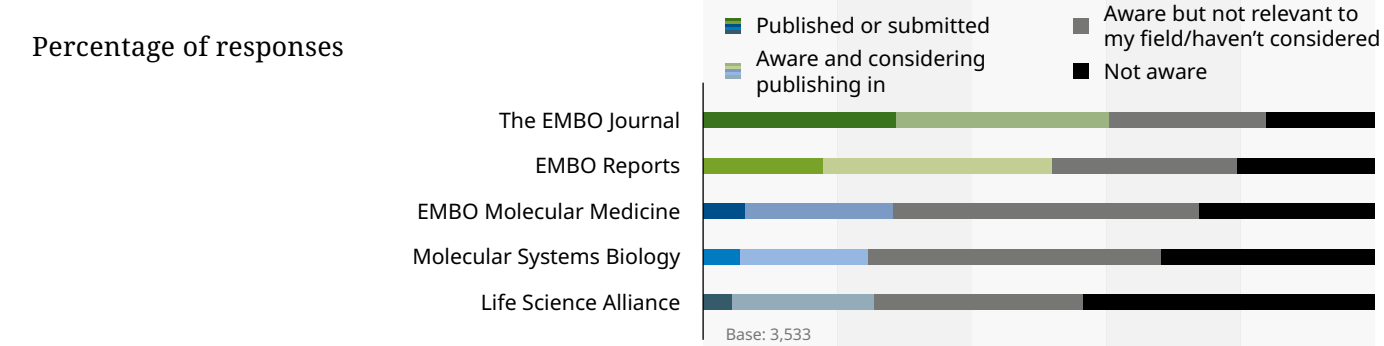
Percentage of responses



Base: 1,697. Asked to those only who had attended an EMBO Course or Workshop

Awareness of EMBO scientific publications

Percentage of responses



Base: 3,533

Solidarity with Ukraine

Ukrainian scientists have found shelter and employment elsewhere in Europe through the EMBO solidarity list

EMBO has called for solidarity of the life sciences community with Ukrainian researchers and set up a list to which scientists can add offers of assistance. This solidarity list has received more than 500 entries from across the world. When EMBO followed up in September, 23 respondents had supported one or more Ukrainian scientists, e.g., by providing accommodation or employment, or arranging contacts.

embo.org/solidarity-with-ukraine

The following individuals and their institutions provided information about how they have helped Ukrainian scientists:
EMBO Member Claudia Bagni
Petr Bartunek
Amelie Baud
EMBO Member Peter B. Becker
Emilie Brasset
Pierre Hainaut
Piers Hemsley
Ricardo Henriques
Martin Higgs
EMBO Member Urs Jenal
EMBO Member Matthias Mann
Antonio Martínez-Murcia
Espen Melum
EMBO Member Poul Nissen
Paulo Pereira
Head of EMBO Press Bernd Pulverer
James Sturgis
Karolina Szczepanowska
Kathrin Thedieck
Alain Townsend
EMBO Member and Director Fiona Watt
and EMBO Member Wolfgang Zachariae.

Further initiatives

- Endorsement of the *Joint Statement by the National Academies of the G7 States on Russia's Attack on Ukraine*
- Grants for current and former EMBO Young Investigators, Installation Grantees and Global Investigators to host scientists from Ukraine: up to 5,000 to cover travel and living costs
- Publication fee waivers at EMBO Press journals for researchers based in Ukraine
- Access fee waiver for publications, including subscription content in The EMBO Journal and EMBO Reports, for institutions in Ukraine via Research4Life
- EMBO Solidarity Grants supporting life scientists displaced by armed conflicts in Ukraine or elsewhere (the application deadline was 15 February 2023, EMBO will report on these in 2023)

Nadiia Zubchuk, a biologist with a master's degree and mother of two, had lived in Kyiv since attending university. She saw the EMBO solidarity list on social media and first did not consider it an opportunity for her: she was a preclinical trial specialist and had not worked in research for eight years. But when Kyiv became surrounded from three sides and she received a personal message of concern from a partner company, Zubchuk contacted several scientists abroad. She is grateful for the many positive responses: "It is so touching, all this concern and support!" Pierre Hainaut, director of the Institute of Advanced Biosciences in Grenoble, France, replied very fast and encouraged Zubchuk to come as fast as possible.

Within a week of the first call and after a two-day bus journey, Zubchuk arrived with her daughters in March 2022 and felt great relief. She was employed as a research engineer for one year; supportive colleagues arranged accommodation and helped her to enrol her children in school and kindergarten. Zubchuk could choose whom to work with and joined Beatrice Eymin's group, whose research matched her background best. She worked on approaches to overcoming resistance to tyrosine kinase inhibitors in non-small cell lung cancer. She thinks that the experience she and other Ukrainian scientists are gaining abroad will be needed in the country in the future.

"The first feeling I had was relief that I had brought my children to a safe place."

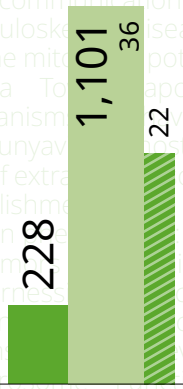
The Ukrainian scientist Nadiia Zubchuk who has left her country shares experiences from her journey

Programmes and schemes

EMBO Postdoctoral Fellowships

Supporting internationally mobile postdoctoral researchers in Europe and around the world

EMBO Postdoctoral Fellowships support excellent postdoctoral researchers throughout Europe and the world for a period of up to two years. International mobility is a key requirement. The fellowship includes a salary or stipend, a relocation allowance, and support for fellows with children. Awardees can attend an EMBO Laboratory Leadership course and become part of the global network of EMBO Fellows.



In 2022, 228 EMBO Postdoctoral Fellowships were awarded to life scientists in 22 countries.

1,101 life scientists from 36 countries had applied.

Peeking inside a cell's antenna

Nikolai Klena

EMBO Postdoctoral Fellow at the Human Technopole in Milan, IT

To EMBO Postdoctoral Fellow Nikolai Klena, cilia are some of nature's most fascinating structures. These hair-like organelles that protrude from the cell surface help algae and single-celled eukaryotes to move around. In mammalian cells they function as antennae, playing key roles in regulating cellular signaling. Cilia have been implicated in a group of disorders that affect the development of essential organs, including the brain, heart and liver.

After obtaining a PhD from the University of Geneva in Switzerland, Klena was awarded an EMBO Postdoctoral Fellowship to join the Human Technopole in Milan, Italy. There, he investigates the structure of cilia using electron microscopy and other structural biology techniques. Understanding the structure of cilia will help to elucidate how they work and what goes awry in disease. "We know that primary cilia are important for signaling pathways, but we really don't know what's in there," Klena says.

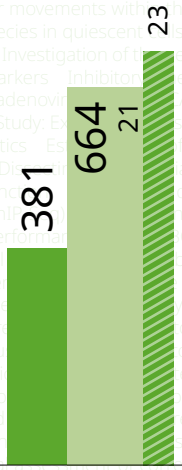
At the Human Technopole Klena can take advantage of expert advice and state-of-the-art equipment. "The microscopes and the facilities are truly incredible, and they've brought in some world-class talent to help you learn and use these pieces of equipment," he says. Besides doing exciting science using advanced technologies, Klena also benefits from the training and network opportunities provided by EMBO. "An EMBO fellowship really opens your possibilities," he says.

Find all 2022 EMBO Postdoctoral Fellows from page 84 onwards.

EMBO Scientific Exchange Grants

Supporting international collaborations that enable the transfer of expertise

EMBO Scientific Exchange Grants fund research exchanges of up to three months between laboratories in eligible countries. The grants facilitate collaborations with research groups with expertise, techniques, or infrastructure that is unavailable in the applicant's laboratory. They cover travel and subsistence costs of the fellow.



In 2022, 381 EMBO Scientific Exchange Grants were awarded to life scientists in 23 countries.

664 life scientists from 21 countries had applied.

Up for growth
Constanza Marín-Márquez

EMBO Scientific Exchange Grantee at the Institute for Research in Biomedicine in Barcelona, ES

In 2019, oral pathologist Constanza Marín-Márquez, an assistant professor at Andrés Bello National University in Viña del Mar, moved from her home country Chile to the United Kingdom to pursue a PhD at the University of Sheffield. There, she set out to analyze genomic and transcriptomic data from a rare and aggressive tumour of the jaw in hopes to find new therapeutic targets. But a few months into her project, Marín-Márquez started to struggle with some bioinformatics analyses. Her PhD supervisor suggested that she check whether EMBO offered financial support to spend time in a laboratory that could help her with the analyses.

Marín-Márquez contacted a computational genomics group led by Núria López-Bigas at the Institute for Research in Biomedicine in Barcelona and secured an EMBO Scientific Exchange Grant. It allowed her to travel to Spain and spend a week in López-Bigas's lab, where Marín-Márquez received support and expert feedback. She also had the opportunity to meet scientists from different backgrounds with whom she may collaborate in the future. Marín-Márquez went back to the UK with renewed confidence and enthusiasm. Since then, she has always kept an eye on EMBO events and funding schemes: "All the opportunities that they offer – in terms of travel grants, fellowships, courses – are very useful, especially when you're starting your career."

Find all 2022 EMBO Scientific Exchange Grantees from page 100 onwards.

EMBO New Venture Fellowships

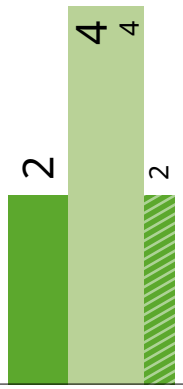
Supporting young scientists in entering a new field

Elucidating the role of microtubule geometry in cilia self-organization using DNA origami nanoseeds May the force be with you: understanding mechanical forces that guide heart regeneration

EMBO New Venture Fellowships enable early career life scientists to enter a new field of research. In memory of Suzanne Eaton, a bright-minded and passionate scientist, these fellowships help researchers to pursue a new direction and transform their research trajectory by allowing them to initiate projects outside their current scientific area.

Suzanne Eaton was an internationally acclaimed scientist and EMBO Member. She was actively engaged in multi-disciplinary research and encouraged others to overcome the challenges of entering a new field for the benefit of intellectual and scientific advancement. With the desire of many to honour Suzanne as a scientist, mentor and friend, a fund was established in her memory.

Find all 2022 EMBO New Venture Fellows on page 124.



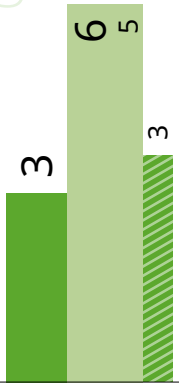
In 2022, two EMBO New Venture Fellowships were awarded to life scientists in two countries.

Four life scientists from four countries had applied.

EMBO Core Facility Fellowships

Supporting training of core facilities staff by funding international exchanges

Establishing a cebrafish sperm cryopreservation and in vitro fertilization hub in the south of the world Correlative light and focus ion beam scanning electron microscopy – functional and structural studies to decipher the role of mitochondria-associated prohibitin 1 during enterovirus 71 infection in neuronal cells Advanced methods for genetic edition in teleost models



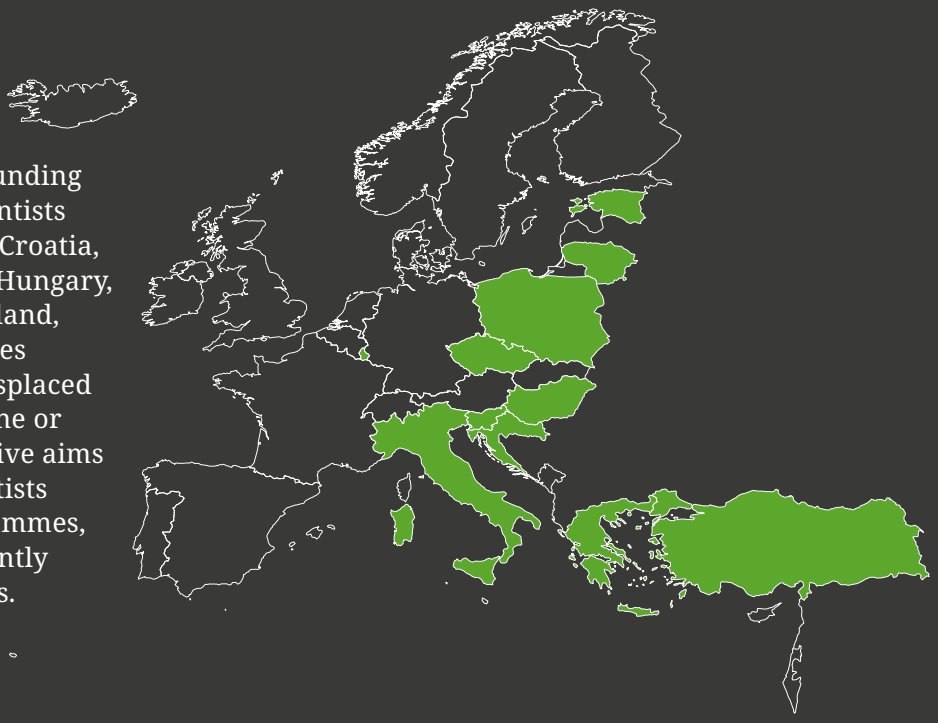
EMBO Core Facility Fellowships fund international exchanges of up to one month between core research facilities in eligible countries. They are intended for the training of core facilities staff, including scientists and technicians, in specific techniques used in facilities that provide services to research institutions or universities. The fellowships contribute towards the fellow's travel and subsistence costs.

Find all 2022 EMBO Core Facility Fellows on page 124.

In 2022, three EMBO Core Facility Fellowships were awarded to life scientists in three countries.

Six life scientists from five countries had applied.

Increasing participation throughout Europe



EMBO continued and launched funding and support schemes for life scientists at all career stages in or going to Croatia, Czech Republic, Estonia, Greece, Hungary, Italy, Lithuania, Luxembourg, Poland, Slovenia and Türkiye. The schemes include grants for researchers displaced by the military invasion in Ukraine or other armed conflicts. The initiative aims to increase participation of scientists from across Europe in the programmes, especially in countries that currently benefit less from the programmes.

The schemes and support offerings are:

EMBO Solidarity Grants
supporting life scientists displaced by armed conflicts with one-year stipends to start, continue or finish their PhD thesis; for postdoctoral research; and for research stays by scientists at the professorial and group leader level

EMBO Postdoctoral Fellowships
reserved for researchers applying to work in one of the eleven participating countries

EMBO Advanced Collaboration Grants
for group leaders in the eleven countries who wish to visit scientists in other EMBC Member States, to develop or carry out collaborative projects, or to prepare joint grant applications

Funding for EMBO Early Career Lecture Courses
to train PhD students and postdoctoral researchers

Funding to invite EMBO Members and Young Investigators
to lecture at EMBO Lecture Series

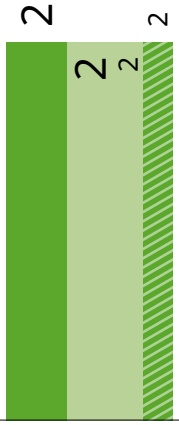
Grants to attend EMBO Courses & Workshops
for researchers at any career stage

Open Access publication
at no cost in all EMBO Press journals if the first author is not covered by a national transformational agreement

EMBO Advanced Collaboration Grants

Supporting group leaders
in participating countries
to develop collaborative projects

Selectivetargetingofneuronsexpressingnicotinic
acetylcholine receptors Glyco-code-on-chip



EMBO Advanced Collaboration Grants are a scheme for group leaders in participating countries who wish to engage in exchange visits with scientists in other EMBC Member States to develop or carry out collaborative projects or prepare joint grant proposals. The participating countries are: Croatia, Czech Republic, Estonia, Greece, Hungary, Italy, Lithuania, Luxembourg, Poland, Slovenia and Türkiye.

Find all 2022
EMBO Advanced Collaboration Grantees
on page 125.

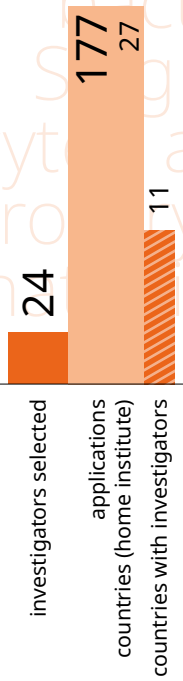
In 2022, two EMBO Advanced Collaboration Grants were awarded to life scientists in two countries.

Two life scientists from two countries had applied.

EMBO Young Investigator Programme

Supporting young group leaders in Europe and beyond

The EMBO Young Investigator Programme supports life scientists who have been group leaders for less than four years at the time of application in setting up their laboratories. Young Investigators receive financial support for networking for four years and benefit from training opportunities, support for their lab members and mentoring. They become part of an international network of more than 600 current and former EMBO Young Investigators, Installation Grantees and Global Investigators.



In 2022, 24 EMBO Young Investigators in 11 countries have been selected.

177 young life scientists from 27 countries had applied.

Mapping mutations and making connections

Kelly Nguyen

2022 EMBO Young Investigator and Principal Investigator at MRC Laboratory of Molecular Biology, Cambridge, UK

The ends of chromosomes are capped by telomeres, which safeguard our genetic information. Kelly Nguyen, EMBO Young Investigator and Group Leader at MRC Laboratory of Molecular Biology in Cambridge, investigates the regulation of telomerase, an enzyme which extends telomeres and delays cell mortality. Without sufficient telomerase, Nguyen explains, "cells end up aging; but too much telomerase can also be problematic."

Nguyen is thrilled that access to cutting-edge imaging technology has allowed her group "to address scientific problems which ten years ago would have been unthinkable." She explains that by using cryo-electron microscopy, "we were able to discover new parts of telomerase which scientists had never been able to describe before."

"Telomerase is a powerful drug target against cancer," Nguyen explains. "Understanding its exact structure will allow scientists to fine-tune drug designs to better inhibit it."

Another class of disease mutations, called dyskeratosis congenita, "is caused by telomerase deficiency, and causes patients to experience premature aging," says Nguyen. "We can map the mutations onto the image of the molecule and see what leads to these diseases. If one can understand how mutations lead to a deficiency, one can try to counteract those effects."

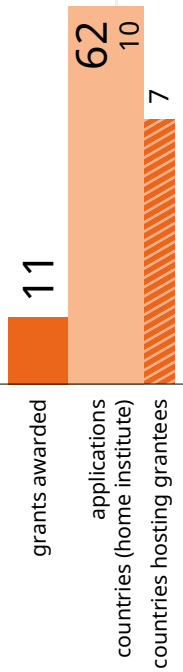
About becoming an EMBO Young Investigator, Nguyen says, "I am very excited about the networking opportunities" and is delighted that she already has several related invitations on her calendar, which could lead to collaborations.

Find all 2022 EMBO Young Investigators from page 126 onwards.

EMBO Installation Grants

Supporting group leaders who move to host countries that are part of the scheme

EMBO Installation Grants support group leaders establishing laboratories in the participating countries in order to strengthen life sciences there. In the 2022 call, grants were available in the Czech Republic, Estonia, Lithuania, Montenegro, Poland, Portugal, and Türkiye. Installation Grantees become part of an international network of more than 600 current and former EMBO Young Investigators, Installation Grantees and Global Investigators.



In 2022, 11 EMBO Installation Grants were awarded in seven countries.

62 life scientists from 10 countries had applied.

Understanding the power of habits

Michaela Fenckova

2022 EMBO Installation Grantee at the University of South Bohemia, in České Budějovice, CZ

From single-celled organisms to humans, a basic form of learning called habituation is widespread, enabling focus on important aspects such as food or danger and the tuning out of irrelevant information. But genetic factors can cause habituation to go awry, contributing to disorders such as intellectual disabilities and autism. New EMBO Installation Grantee Michaela Fenckova aims to shine light on these effects by studying habituation in the fruit fly, *Drosophila*.

"How genetic defects lead to dysfunction of the brain habituation circuitry is still shrouded in mystery," says Fenckova, who is based at the University of South Bohemia, České Budějovice, Czech Republic. "Around three-quarters of genes implicated in intellectual disability and autism also exist in Drosophila. We will use a high-throughput habituation assay to explore how they affect neuronal processes and impact learned behaviour that leads to habituation deficit in fruit flies." The ultimate aim of her research is to provide a platform that can help to disentangle genetic and environmental effects leading to human conditions and hopefully support the search for treatments.

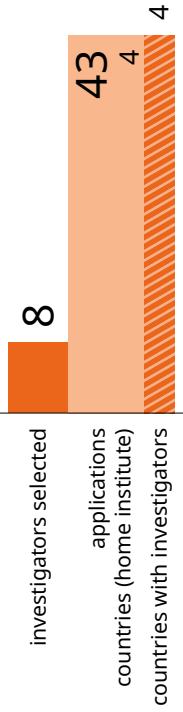
"It's heartening to receive the support of an EMBO Installation Grant for this research and a terrific feeling that I can turn my research ideas into reality," Fenckova adds. "The campus here is great and the university has been very supportive, providing dedicated facilities so that we can carry out the work."

Find all 2022 EMBO Installation Grantees on page 132.

EMBO Global Investigator Network

Supporting young group leaders in Chile, India, Singapore, and Taiwan

The EMBO Global Investigator Network supports group leaders who, at the time of application, are within their first six years of setting up their laboratories in Chile, India, Singapore or Taiwan. Global Investigators receive financial support for four years for training and networking activities, providing them with opportunities to form collaborations with scientists in their region and in Europe. They become part of an international network of more than 600 current and former EMBO Young Investigators, Global Investigators and Installation Grantees.



In 2022, eight EMBO Global Investigators in four countries have been selected.

43 life scientists from 4 countries had applied.

Mechanisms of neurodegenerative disease

Baskar Bakthavachalu

2022 EMBO Global Investigator at the Indian Institute of Technology in Mandi, IN

Over the next decade, new EMBO Global Investigator Baskar Bakthavachalu plans to put as much energy as possible into understanding the cellular mechanisms of neurodegenerative diseases. Bakthavachalu is particularly interested in ribonucleoprotein (RNP) granules, large assemblies of RNA and protein found in many cell types. “RNP granules carry out important functions in the cell, and yet they are also associated with the onset of neurodegenerative diseases such as amyotrophic lateral sclerosis (ALS),” he explains. “Why, and how, do proteins that are so important for cellular function switch to take on a role in degeneration, causing the cell to die? We are interested in understanding this shift.”

Returning to his home country of India following postdoctoral training in the US, he decided he wanted to study cellular neural processes using in vivo models. He and his team at the Indian Institute of Technology in Mandi use fly models to study RNP granules in neurons, and the role they play in disease like ALS. On being selected to join the EMBO Global Investigator Network, Bakthavachalu says he is looking forward to new networking opportunities. “This award is a great recognition of our work,” he says. “Being part of the EMBO Global Investigator Network opens up many new doors, especially for my students, who will have the chance to engage with scientists from across the world.”

Find all 2022 EMBO Global Investigators on page 133.

EMBO Global Activities

Promoting interactions within the scientific community worldwide

EMBO Global Activities promote engagement with researchers beyond Europe to strengthen mutually beneficial interactions and provide access to EMBO Programmes. Co-operation agreements have been set up with India, Singapore, the National Agency for Research and Development (ANID) of Chile and the National Science and Technology Council (NSTC) of Taiwan. Discussions are underway with further potential partners.

Original image Mitsuhiro Yanagida © OIST (Okinawa Institute of Science and Technology Graduate University, 沖縄科学技術大学院大学).

Far-reaching and flourishing

The EMBO community and activities in Japan continue to expand

From Honshu to Okinawa Island and from immunity to stem cells, the EMBO community in Japan is widespread and carries out research on a broad range of topics. There are 22 EMBO Members and Associate Members, and two former EMBO Young Investigators, in Kobe, Kyoto, Okinawa, Osaka, Sendai, Tokyo, Wako and Yokohama. Throughout 2022, EMBO has intensified relations with both scientific community and policymakers to increase awareness of the organization and strengthen ties.

Activities that continued as in previous years included EMBO | Japan Virtual Lectures, funding scientific exchange grants, core facility fellowships and new venture fellowships involving home or host institutions in Japan, and representation at the annual meeting of the Molecular Biology Society of Japan. The EMBO Director also visited Japan, meeting with key government officials and EMBO Associate Members. The exchanges were warmly welcomed and further increased visibility as well as recognition of EMBO as an international partner.

EMBO Members and Associate Members

Shizuo Akira

Piero Carninci

Peter Gruss

Hiroshi Hamada

Yoshihide Hayashizaki

Nobutaka Hirokawa

Tim Hunt

Nicholas Luscombe

Noboru Mizushima

Toshiyuki Nagata

Akihiko Nakano

Keiichi Namba

Yoshinori Ohsumi

Noriko Osumi

Mitinori Saitou

Mikiko C. Siomi

Keiko Sugimoto

Masayo Takahashi

Masatoshi Takeichi

Tadatsugu Taniguchi

Shinya Yamanaka

Mitsuhiro Yanagida

EMBO Young Investigators

Yuki Nakamura

Robert Robinson

Find all 2022 EMBO | Japan Virtual Lectures on page 134.

EMBO Workshops

Funding for meetings that stimulate exchange of the latest scientific knowledge

EMBO Workshops bring together scientists who present and discuss their latest findings in different aspects of the life sciences. The meetings last between two and five days and attract up to 450 participants. EMBO provides funding and assists organizers in promoting the workshop and creating a webpage with a registration and abstract submission system. Additional funding is provided to cover additional cost of hybrid (combined in-person and virtual) meetings.

EMBO | The Company of Biologists Workshops

EMBO and The Company of Biologists fund workshops, practical courses and lecture courses in Brazil, Canada, China, Japan, Mexico, and South Korea. Organizers can be of any nationality and be based in any country in the world. The scientific organizing committee must be geographically diverse and come from more than one institute representing the topics covered in the meeting.

Childcare grants

Organizers of an EMBO Workshop or Practical Course can allocate funds to offset additional childcare costs incurred by participants or speakers while participating in the meeting. The childcare grants can be used to cover fees for a babysitter or childcare facility, or for travel costs of a caregiver or for taking the child to the meeting.

Funding for 72 EMBO Workshops and three EMBO | The Company of Biologists Workshops in 2022 was awarded.

EMBO Practical Courses

Funding for courses that provide training in experimental techniques and promote the transfer of methodologies

Original image © EMBL Events

EMBO Practical Courses provide training in experimental techniques for researchers and core facility staff, enabling them to implement the techniques in their laboratories. The courses should last between five and ten days and are limited to 25 participants. EMBO provides funding and assists organizers in promoting the courses and creating webpages with a registration and abstract submission system.

Find all 2022 EMBO Workshops and Practical Courses from page 135 onwards.

Funding for 34 EMBO Practical Courses in 2022 was awarded.

EMBO Lecture Courses

Funding for courses for PhD students and postdocs and for international scientific exchange

EMBO Early Career Lecture Courses

The EMBO Early Career Lecture Courses scheme provides funding for lecture courses to train PhD students and postdoctoral researchers in participating countries. The participating countries are: Croatia, Czech Republic, Estonia, Greece, Hungary, Italy, Lithuania, Luxembourg, Poland, Slovenia, and Türkiye.

EMBO Global Lecture Courses

EMBO Global Lecture Courses enable scientific exchange beyond European borders. They teach participants, primarily PhD students and postdoctoral researchers. The courses can take place in EMBC Associate Member States, in countries and territories with which EMBO has signed a co-operation agreement, or in countries eligible for support by EMBO and The Company of Biologists.

Funding for 14 EMBO Lecture Courses in 2022 was awarded.

Small brains, big ideas

EMBO | FEBS Lecture Courses

EMBO and the Federation of European Biochemical Societies (FEBS) support lecture courses on timely topics in biochemistry, molecular biology, and related areas. They focus on career development of PhD students and postdoctoral researchers.

India | EMBO Lecture Courses

EMBO and the DBT/Wellcome Trust India Alliance jointly fund lecture courses in India. They teach participants, primarily PhD students and postdoctoral researchers.

Find all 2022
EMBO Lecture Courses
from page 140 onwards.

Lecture and travel grants

Funding for meeting organizers to invite speakers and for participants to travel to EMBO events

EMBO Member Keynote Lectures

EMBO Member Keynote Lectures are given by an EMBO Member or Associate Member at a major international scientific meeting. Organizers receive funding to cover travel and accommodation costs of the speaker, or costs associated with a virtual meeting platform.

EMBO Global Lecture Series

EMBO Global Lecture Series enhance collaboration between scientists worldwide. They are given by EMBO Members or Young Investigators at institutions outside Europe, or by leading researchers from outside Europe who visit European institutions.

EMBO Young Investigator Lectures

EMBO Young Investigator Lectures are given by an EMBO Young Investigator at a scientific meeting. Organizers receive funding to cover travel and accommodation costs.

EMBO Lecture Series

The EMBO Lecture Series scheme provides funding to invite EMBO Members, Associate Members, and Young Investigators to give lecture series at institutions in participating countries. The participating countries are: Croatia, Czech Republic, Estonia, Greece, Hungary, Italy, Lithuania, Luxembourg, Poland, Slovenia, and Türkiye.

Original image © EMBL Events

Policy Lectures

Policy Lectures address policy implications of science and technology. They are given at scientific meetings. Organizers receive funding to cover travel and accommodation costs of the speaker.

Women in Science Lectures

Women in Science Lectures address issues related to gender and diversity in science. They are given at scientific meetings funded by EMBO. Organizers receive funding to cover travel and accommodation costs of the speaker.

Travel grants and registration fee waivers

Travel grants and registration fee waivers support participants who have been selected to attend a scientific meeting funded by EMBO. They are available for EMBO Workshops, EMBO Practical Courses, EMBO | FEBS Lecture Courses, and EMBO | EMBL Symposia.

Find all 2022 lectures from page 129 onwards.

Policy

EMBO supports excellence in research in the life sciences by providing analyses, tools and information

Biotechnology

EMBO works to facilitate improvements in biotechnology governance. Emerging biotechnologies often evoke concerns about good governance, including those related to best research practices and ethics. We perform policy research, assess technologies, interact with decision makers and institutions at the European level, and engage the EMBO communities in this work.

Research integrity

EMBO works with life scientists to create environments in which research is pursued responsibly, with integrity and to the highest standards. We help scientists to embed research integrity principles in their work. We engage internationally with stakeholders such as research integrity offices, academies, and funders to improve the governance of research integrity.

Research assessment

EMBO engages in policy work on research assessment and its impact on evaluations of scientists and their work. Fair assessment of applications and project proposals can be compromised through the inappropriate use of quantitative indicators such as publications metrics or through biases. We foster the sharing of best practices for conducting research assessments and initiatives for improving them.

Women in Science

EMBO has long queried the basis of gender imbalances in the life sciences. We carry out policy analyses and use the results to propose practical measures to mitigate gender imbalances in the life sciences. We also draw attention to positive stories and role models.

Engagement

EMBO engages with the EMBO communities and other researchers in Europe and beyond. We gather and evaluate their feedback and transpose it into actions to foster their research. EMBO works with decision-makers at the European level to understand their goals and how we can contribute to achieving them. We assure that they are aware of the views and needs of researchers in the life sciences.

Reports

EMBO analyses questions in the areas of biotechnology, Open Science, research integrity, research assessment and women in science, and makes the results openly available as reports, publications and consultation responses.

A research integrity workshop in Vienna, September 2022

EMBO research integrity workshops

Opportunities to discuss responsible research practice and policy

In 2022, EMBO organized and hosted four research integrity workshops, in collaboration with EMBO Members, at scientific institutes across Europe. These one-day events enable senior postdoctoral researchers and principal investigators (PIs) to discuss issues around research conduct and integrity. Workshops start with an open session, which includes both talks by the host on local research policies as well as a refresher on researchers' responsibilities and integrity. A closed session follows, during which participants engage with topics ranging from animal research to data management, scientific publishing and personal conduct. Although many topics are common across events, each programme is customized to suit the needs and interests of the local scientific community. EMBO policies are used as examples to engage the research community in discussing best practices.

EMBO Member Peter Sebo, professor and head of laboratory at the Institute of Microbiology of the Czech Academy of Sciences, worked with EMBO Senior Policy Officer Sandra Bendiscioli to organize a workshop in Prague in November 2022. Research integrity and researcher assessment are topics close to his heart, says Sebo. “Research integrity has become a major issue. With more scientists than ever competing for limited funding, the pressure to cut corners is immense. The system has been antagonized by issues such as open access publication, and the way we evaluate and value research. The workshop was timely and extremely useful,” he adds. During the Prague workshop, Bendiscioli presented current approaches to researcher assessment and their effects on research practice, while also highlighting initiatives to improve traditional approaches. “We had a very lively discussion about the consequences of current approaches to researcher assessment,” she says. “The participants discussed whether, for example, trust should play a bigger role, rather than continuous assessment, and discussed ways to ensure researchers have more time and funding for basic research.”

Although the workshop held in Zagreb, Croatia, in October had a broader programme, according to participant and local organizer Ivana Ponjavić, doctoral candidate at Ruđer Bošković Institute, the topics were highly relevant. “The workshop was very interactive and informative, particularly for young PIs. We also had the opportunity to discuss improvements with our management as to how research is conducted at our institute, such as providing written clear guidelines and policies regarding lab work and publications, to help improve transparency and establish a common code of conduct.”

Edvardas Golovinas, doctoral candidate at the Vilnius University Life Sciences Centre in Lithuania, participated in a workshop there in November. He says the workshop was extremely valuable, preparing him to address challenges in his work environment with confidence. “The EMBO research integrity workshop was engaging, comprehensive and thoroughly enjoyable,” he says. “It provided us with useful tools and offered different perspectives when thinking about the issues we may face in our work. This has helped immensely in the way we now approach issues.” Golovinas reports that because audience participation was encouraged, lively and insightful discussions ensued.

Eva Schmid, head of scientific training at the Vienna Biocenter, helped organize the event held there in September, and was keen to attend as an education professional. “Something that stuck with me was that misconduct is quite rare, but sloppiness is frequent,” she says. “This is probably not intentional, but often comes down to insufficient communication or lack of understanding of common standards. Therefore, the research environment we create really matters.” She sees this as an opportunity for institute training teams to get involved. “I think it is important that awareness is raised for these topics at the group leader level, so they can establish a lab environment that facilitates good communication and work practices that reduce the likelihood of mistakes happening—and that’s where training professionals can help, by providing regular workshops and courses.”

Bendiscioli also stands behind the value of the workshops: “Policies continually evolve and change, so it is important to make sure researchers are well informed about new and emerging mandates, policies and guidelines, for example regarding data management or research assessment.” She believes that “research integrity is often not given enough space for discussion. These workshops are an excellent platform for raising awareness and encouraging participation across the scientific community and beyond.”

Original image Peter Šebo © PŠebo | Ivana Ponjavić © Ruđer Bošković Institute | Eva Schmid © IMP IMBAGraphics Tkadletz Hannes | Edvardas Golovinas © ANUSEVICIUS Gerardas

Journals and subsidiaries

EMBO Press

EMBO Press is an editorially independent publishing platform for the development of EMBO scientific publications. It is founded on the principle that scientific publishing should be transparent, fair and ethical, and must support reliable, reproducible literature.

EMBOpress

THE EMBO JOURNAL | EMBO reports | molecular systems biology | EMBO Molecular Medicine | Life Science Alliance

The journals of EMBO Press publish important advances in the life sciences from around the globe, ranging from structural biology, biophysics and systems biology to cell- and developmental biology, biomedicine and ecology. EMBO Press editors execute the editorial process of Review Commons.

DORA Sustainer

Publishing output in 2022[1]

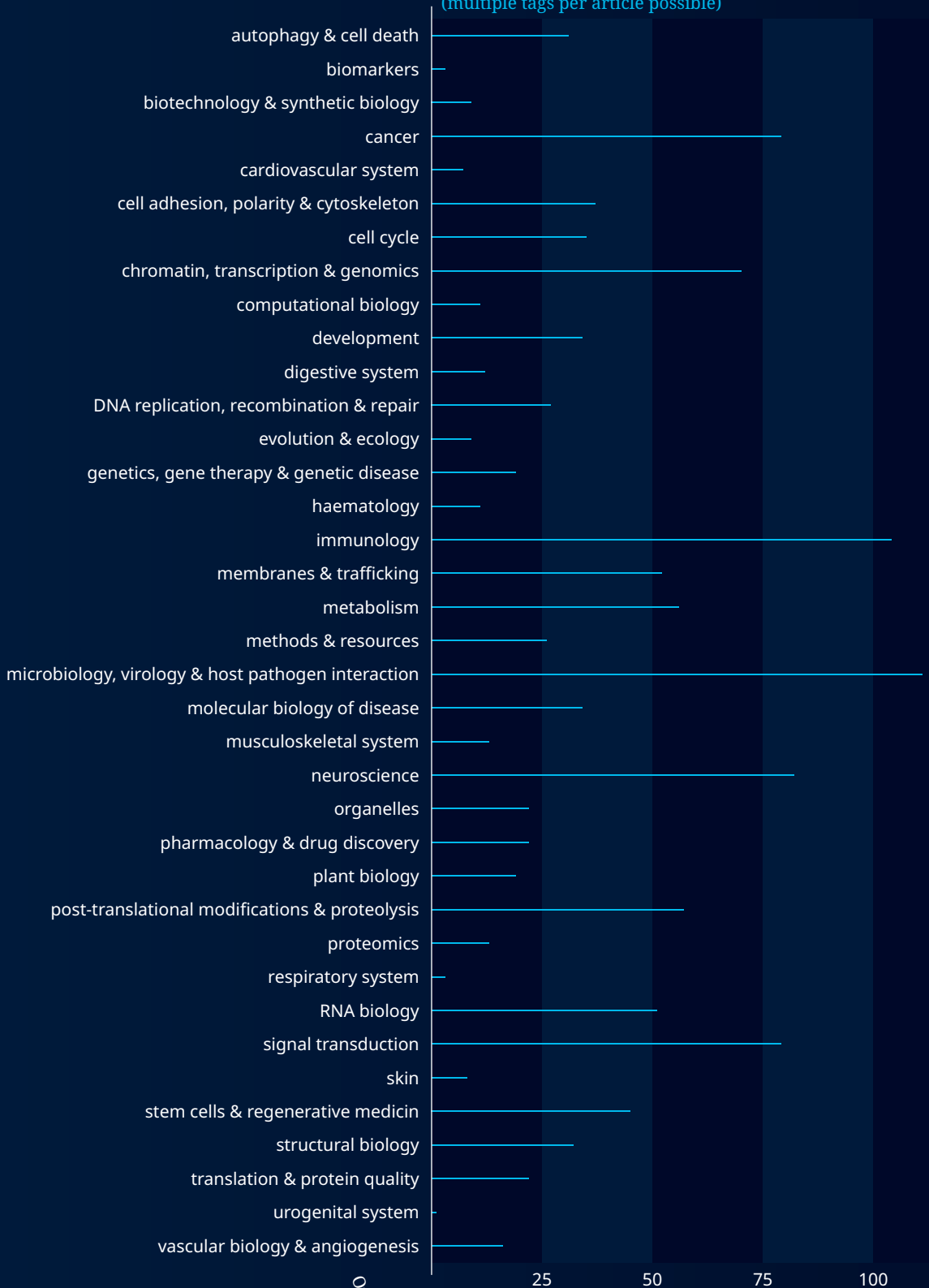
757
total articles published

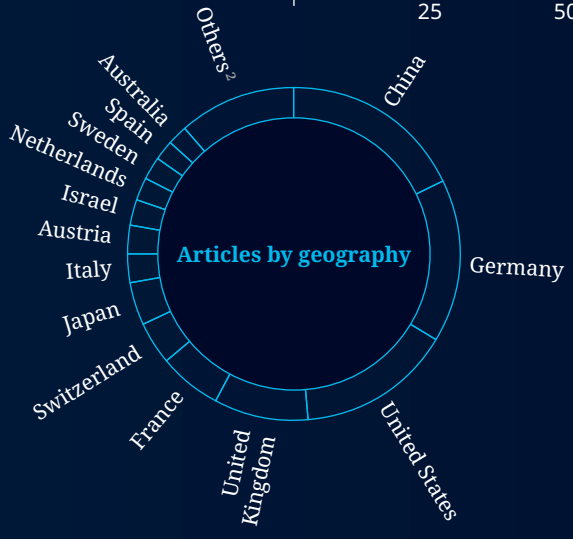
582
research articles

34
review articles

141
commentaries, editorials, news and views, science and society

Published research articles by subject category[1]
(multiple tags per article possible)





1 excludes Life Science Alliance
2 countries with less than ten articles

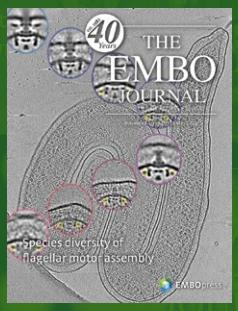
The EMBO Journal

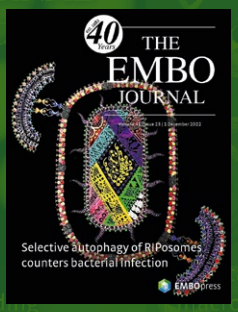
The EMBO Journal has been the EMBO flagship publication since its launch in 1982. With a scope that spans all areas of molecular, cell and developmental biology, the journal has an international reputation for quality and originality. The journal publishes research papers and reviews of broad general interest—a particular emphasis is placed on conceptual advance, molecular mechanism and physiological relevance.

This year marked the 40th anniversary of The EMBO Journal. In addition to highlighting particularly noteworthy articles published through the years, the journal launched the Catalysts programme, an external advisory group composed of early career researchers. The aim of the Catalysts programme is to give the next generation of group leaders a stronger voice in all aspects of publishing, including innovations of the editorial process and policies, and also to contribute their views on emerging scientific fields.

In 2022, The EMBO Journal published 66% of its papers Open Access.

THE EMBO JOURNAL





Find all 2022 editorial and advisory board members on page 149.

EMBO Reports

EMBO Reports publishes both long- and short-format papers that communicate major findings in all areas of molecular-, cell- and developmental biology, offering novel physiological, functional insight that is robustly documented by independent lines of evidence. The journal also welcomes studies that confirm important findings, refute prominent claims in the literature, as well as null data on important, open questions in the biosciences.

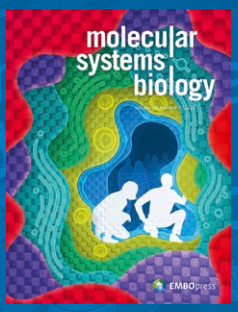
In 2022, EMBO Reports published 54% of its papers Open Access.

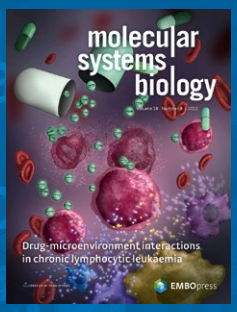
Find all 2022 editorial and advisory board members on page 150.

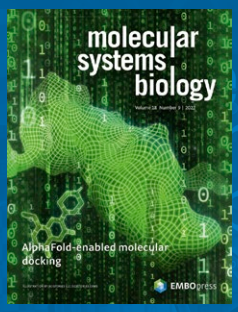
Molecular Systems Biology

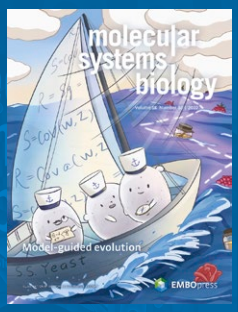
Molecular Systems Biology is an Open Access journal that publishes high-quality research papers and reviews in the fields of systems biology, synthetic biology and systems medicine.

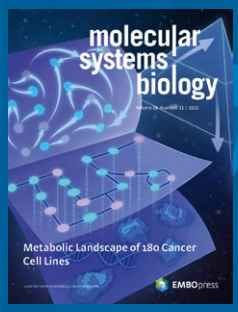
molecular systems biology

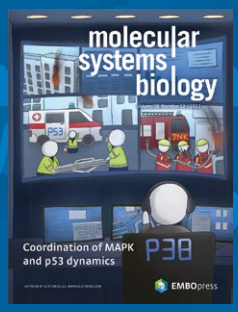










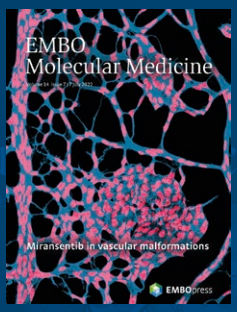


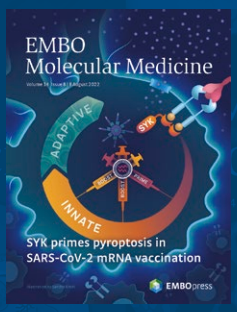
Find all 2022 editorial and advisory board members on page 150.

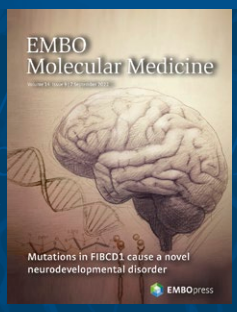
EMBO Molecular Medicine

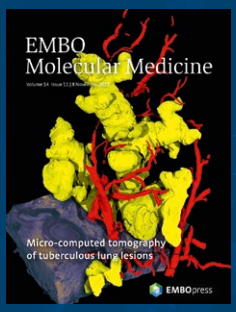
EMBO Molecular Medicine is the top Open Access journal in the field of experimental medicine dedicated to science at the interface between translational and clinical research and basic life sciences. Its scope ranges from studies performed in cells and/or animals provided that they demonstrate human disease relevance to first-in-human studies and analyses of patient samples.

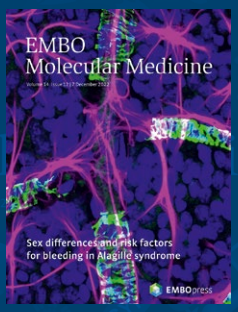
EMBO Molecular Medicine





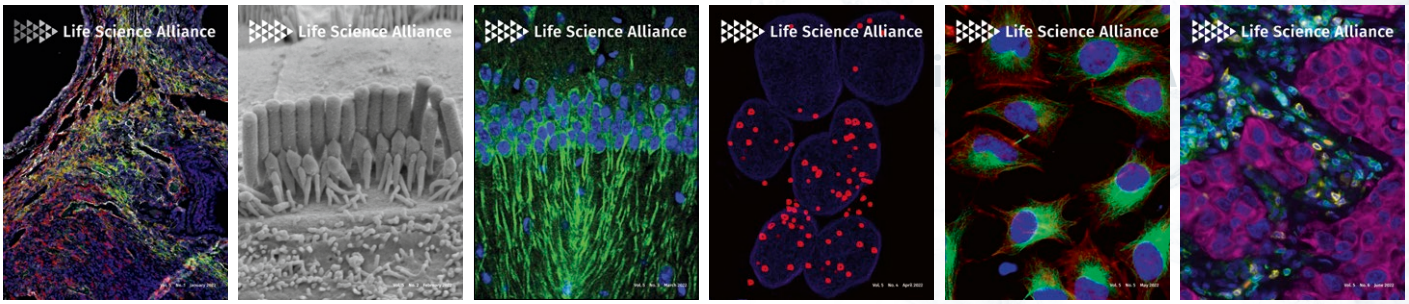






Find all 2022 editorial and advisory board members on page 151.

Life Science Alliance



Life Science Alliance is a global, Open Access, editorially independent and peer-reviewed journal founded by an alliance of EMBO Press, Rockefeller University Press and Cold Spring Harbor Laboratory Press. Papers published in Life Science Alliance meet high scientific and editorial standards established by the alliance partners. The journal welcomes new results, datasets, screens and new methods as well as important confirmatory and refuting data.

Manuscripts can be submitted to Life Science Alliance directly or by seamless transfer without reformatting from nine partner journals: The EMBO Journal, EMBO Reports, Molecular Systems Biology, EMBO Molecular Medicine, Journal of Cell Biology, Journal of Experimental Medicine, Journal of General Physiology, Genes & Development, and Genome Research.

Authors of papers invited to transfer their manuscript to Life Science Alliance with or without referee reports are given a commitment for either publication or peer review. Timely editorial decisions are made through collaborative consultation between the editorial team and leading academic scientists. No more than one round of experimental revision is requested.

Achievements 2022

- *100% of manuscripts encouraged to transfer with external referee reports are accepted*
- *Early career researchers actively involved in peer review*
- *38% growth in published articles 2022 over 2021*
- *Recently began publishing interviews with Life Science Alliance authors to discuss their work and experience*

EMBOpress

Rockefeller University Press

CSH PRESS Cold Spring Harbor Laboratory Press

The EMBO wholly owned, not-for-profit subsidiary EMBO Solutions is in editorial charge of the journal.

EMBO SOLUTIONS

Life Science Alliance

Find all 2022 editorial and advisory board members on page 151.

Open Science

EMBO considers openness and transparency to be key values in scientific research and publishing. Making research outputs accessible, transforming peer review into a transparent process and sharing scientific knowledge openly benefits researchers as well as decision-makers and enhances scientific progress.

Policy

Promoting open dissemination of knowledge

EMBO conducts policy work to identify opportunities for researchers to fully participate in Open Science, defines options for decision-makers, and develops tools that contribute to eliminating those obstacles.

Review COMMONS

Review Commons

The preprint peer-review platform

Review Commons speeds up the dissemination of peer reviewed scientific research by providing authors with journal-agnostic expert peer review of preprints. Reviewed preprints are posted on a preprint server along with one round of referee reports and the authors' response. Review Commons also facilitates transfer to 17 partner journals published by EMBO Press, PLOS, and The Company of Biologists as well as eLife, Molecular Biology of the Cell and Journal of Cell Biology. These partner journals make use of the peer reviews from Review Commons without starting the process afresh.

Review Commons posts the reviews and authors' replies to bioRxiv or medRxiv when authors transfer their reviewed preprint to the first affiliate journal.

During 2022, 260 Review Commons submissions were posted as reviewed preprints, and 118 were published in a partner journal.

Early Evidence Base

Navigating and assessing preprints

Early Evidence Base (eeb.embo.org) is an experimental platform that combines artificial intelligence with human curation and expert peer review to highlight results posted in preprints. Early Evidence Base automatically highlights and organizes preprints around scientific topics and emergent areas of research. The platform integrates 7 preprint peer review services and makes the content of the peer review process easily accessible. In addition, EEB provides programmatic access to peer review in a structured machine-readable format.

Early Evidence Base indexes over 121,000 preprints and provides access to 18,023 preprint-linked peer reviews.

SOURCEDATA
Making data discoverable

SourceData

Making data discoverable

SourceData makes the deposition of the source data behind scientific publications simple and makes the data itself openly accessible and citeable. SourceData is integrated into the publication process at EMBO Press so that figures and data submitted with a scientific paper are curated and annotated. Datasets are automatically deposited to BioStudies where every paper is linked to a unique citable record that provides a single point of entry to the underlying source data.

During 2022, 7936 figure-data packages from 485 papers were curated by SourceData.

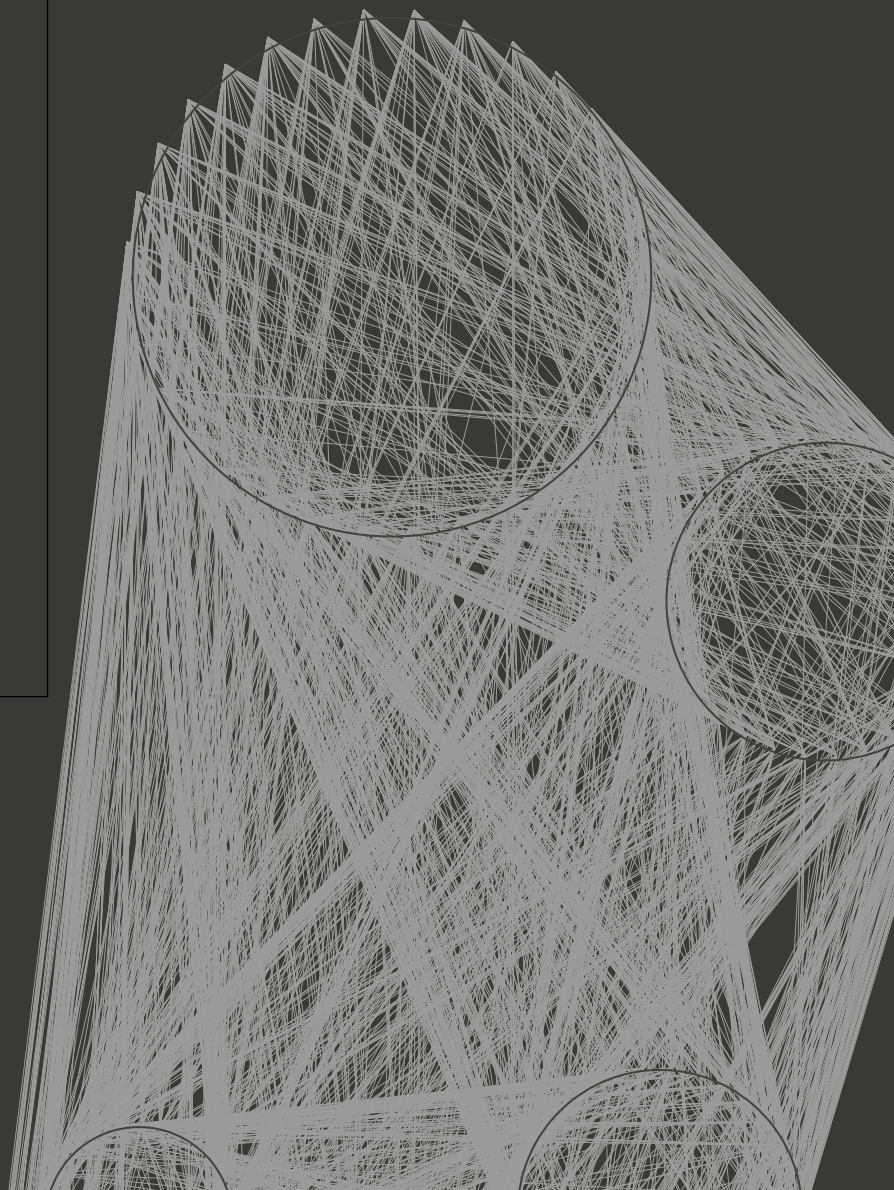
SDash

SDash

The SourceData Dashboard

SDash enables scientists to generate and share SmartFigures that link a scientific figure to the underlying source data and structured machine-readable metadata. Users can manage their SmartFigures to share them with groups of colleagues or make them public to share with the whole scientific community. Users can comment and discuss initiating an early scientific dissemination of results.

In 2022, SDash was in active beta testing with the “SFB 1315 Mechanisms and Disturbances in Memory Consolidation: From synapses to systems” research consortium.



EMBOpress

EMBO Press

An editorially independent publishing platform for the development of EMBO scientific publications

EMBO endorses the principles of Open Access publishing and FAIR data. Through the work of the EMBO Press journals, improving transparency, efficiency and objectivity of peer review is a major focus.

In 2022, EMBO Press published three completely Open Access journals: EMBO Molecular Medicine, Molecular Systems Biology and Life Science Alliance*[1]. The EMBO Journal published 66% of its papers Open Access. EMBO Reports published 54% of its papers Open Access. On average, 71% of research papers across EMBO Press journals had source data associated with one or more figures. In October 2022, a SourceData helpdesk was established to support authors with the source data submission process. The helpdesk has aided the authors of 283 papers to provide their data.

1 Life Science Alliance is co-published with Rockefeller University Press, and Cold Spring Harbor Laboratory Press.

Aiding Open Science through technology

The EMBO Open Science Implementation group develops innovative methods and technologies to make the outputs of scientific research accessible and transparent, and to extract added value from published scientific material.

EMBO has worked with Cold Spring Harbor Laboratory Press, eLife/Sciety and Knowledge Futures to create a machine-readable description of the peer review workflow. This records the steps in the peer review process in a standardised form that can be transferred between different publishing platforms. In 2022, this was implemented to visualise the peer review process on Early Evidence Base.

The Open Science Implementation group is also developing Artificial Intelligence technologies for use in scientific publishing. The SourceData curation workflow has enabled the distribution of a dataset of 68,543 annotated experiments in a suitable format for training AI large language models. Additional tools are being developed to analyse the scientific content of preprints and published papers as well as the content of the peer review process.

EMBO Postdoctoral Fellowships

In 2022, the EMBO Fellowships Programme demonstrated support for peer-reviewed preprints as a valuable currency for scientific career progression. From 25 April 2022 until the close of the autumn 2022 selection cycle on 12 August 2022, the EMBO Fellowships Programme trialled the acceptance of a first author preprint with in-depth, public peer-reviews from a trusted independent preprint peer-review platform as equivalent to a first-author publication in an international peer-reviewed journal. After successful completion of the trial period, the Programme continues to consider publications in journals and reviewed preprints as equivalent on an ongoing basis.

EMBO Training

Leadership, communication, scientific writing, research integrity, and other professional and soft skills

The professional skills training offered by EMBO Solutions includes the flagship EMBO Lab Leadership course for principal investigators and senior postdoctoral researchers; the scientific skills training includes the highly appreciated research integrity training for PhD students and early career researchers. Training is delivered in-person in Heidelberg, Germany, worldwide in-person at institutes and universities, or live online for participants from around the world.

EMBO Solutions GmbH is a non-profit daughter company of EMBO.
The company delivers professional development training (both general professional skills and specific scientific skills) to scientists and is in editorial charge of the Open Access journal Life Science Alliance.

Achievements 2022

Convened 38 open-registration professional skills training events in Heidelberg

Convened 15 open-registration scientific skills training events online

Provided 54 professional- and/or scientific skills training events at universities and institutions worldwide

Delivered EMBO Training support to approximately 1,450 scientists from more than 30 countries

© EMBL Photolab/Kinga Lubowiecka

In-person

Leadership training

- EMBO Lab Leadership for group leaders
- EMBO Lab Leadership for postdocs

Online

Leadership training

- EMBO Lab Leadership for group leaders
- EMBO Lab Leadership for postdocs
- Negotiation for scientists
- Self-leadership for scientists
- Project management for scientists

Scientific skills training

- Scientific integrity:
  how to publish reproducible results
- Communicating research:
  paper writing and short presentations
- How to review a scientific paper
- Applying design principles to schematic figures

"I cannot stress enough how useful the EMBO Training course on self-leadership (...) has been. The workshop supplied me with various tools to understand and accept myself, while forming a vision and direction for my future as a group leader. I dream of contributing to a new perspective in research, one that reinforces the view that researchers are, above all, human, and their needs are not to be neglected."

Maria Eleni Kastriti
Medical University of Vienna, AT,
Center for Brain Research, Department of Neuroimmunology

Facts & figures 2022

EMBC Delegates and advisors

Austria	Dr Hemma Bauer – Federal Ministry of Education, Science and Research | Dr Christa Schleper – University of Vienna, Archea Biology and Ecogenomics Unit
Belgium	Ms Maria-Helena Bosschaerts – Belgian Science Policy Office | Dr Laurent Ghys – Belgian Science Policy Office | Mr Alain Heynen – Belgian Science Policy Office | Prof Cédric Blanpain – Université Libre de Bruxelles (ULB) | Mr Savvas Savvides – VIB Center for Inflammation Research
Croatia	Dr Lovorka Barać Lauc – Croatian Science Foundation | Prof Vesna Boraska Perica – Split University Medical School
Czech Republic	Mr Jan Buriánek – Ministry of Education, Youth and Sports | Prof Zdena Palková – Charles University
Denmark	Ms Line Bekker Poulsen – Ministry of Higher Education and Science | Ms Nynne Lucca Christiansen – Ministry of Higher Education and Science | Prof Kaare Teilum – University of Copenhagen
Estonia	Prof Maia Kivisaar – University of Tartu | Dr Toivo Raim – Ministry of Education and Research
Finland	Prof Johanna Myllyharju – University of Oulu | Dr Sirpa Nuotio – Academy of Finland, Biosciences, Health and Environment Research
France	Dr Elena Hoffert – Ministère de l'Education Nationale, de l'Enseignement Supérieur et de la Recherche | Dr Anne Paoletti – Ministère de l'Enseignement Supérieur de la Recherche et de l'Innovation
Germany	Dr Barbara Ohnesorge – Federal Ministry of Education and Research | Prof Peter Becker – Ludwig-Maximilian University
Greece	Prof Nektarios Tavernarakis – Medical School, University of Crete | Prof Eleftheria Zeggini – Helmholtz Zentrum München | Ms Panagiota Katsafana – Ministry for Development and Investments
Hungary	Mr Gergely Boehm – Hungarian Academy of Sciences | Prof Ferenc Nagy – Hungarian Academy of Sciences
Iceland	Prof Zophonías Oddur Jónsson – University of Iceland | Prof Eiríkur Steingrímsson – University of Iceland
Ireland	Dr Maria Nash – Science Foundation Ireland | Ms Noelle Waldron – Department of Further and Higher Education, Research, Innovation and Science
Israel	Dr Iris Eisenberg – Ministry of Innovation, Science and Technology | Prof Joel Sussman – Weizmann Institute of Science | Mr Barak Gatenyo – Ministry of Innovation, Science and Technology
Italy	Prof Lucia Banci – University of Florence | Dr Alessandro Boero – Ministry of University and Research | Ms Alessandra Lanari – Ministry of Economy and Finance
Lithuania	Dr Milda Jodinskiene – Research Council of Lithuania | Prof Virginijus Šikšnys – Vilnius University
Luxembourg	Ms Stephanie Schott – Ministère de l'Enseignement Supérieur et de la Recherche
Malta	Dr Joseph Borg – University of Malta
Montenegro	Ms Ivana Lagator – Ministry of Science and Technological Development | Ms Lidija Vukčević – Ministry of Science and Technological Development
Netherlands	Prof Anna Akhmnova – Utrecht University | Mrs Jennifa Dorleijn – Ministry of Education, Culture and Science | Mrs Mirjam Lieshout-Vijverberg – Ministry of Education, Culture and Science
Norway	Dr Line M. Grønning-Wang – The Research Council of Norway | Prof Inge Jonassen – University of Bergen
Poland	Prof Leszek Kaczmarek – Nencki Institute of Experimental Biology of the Polish Academy of Science | Ms Maria Klimkiewicz – Ministry of Education and Science
Portugal	Ms Luisa Igreja – Ministry of Science, Technology and Higher Education | Prof Cláudio Sunkel – Universidade do Porto
Slovak Republic	Mr Marcel Sládok – Ministry of Education, Science, Research and Sport of the Slovak Republic | Prof Ján Turňa – Science Park of Comenius University in Bratislava
Slovenia	Dr Tomaz Boh – Ministry of Education, Science and Sport | Mr Andrej Ograjenšek – Ministry of Education, Science and Sport | Prof Boris Turk – Josef Stegan Institute
Spain	Mr Ignacio Baanante – Ministry of Science and Innovation | Dr Cristina Bauluz – Secretariat of State for Science, Technology and Innovation | Prof M. Angela Nieto – Instituto de Neurociencias CSIC-UMH | Ms Inmaculada Figueroa – Ministry of Science and Innovation
Sweden	Prof Björn Andersson – Karolinska Institute | Dr Maria Thuveson – The Swedish Research Council | Dr Helena Berglund – The Swedish Research Council
Switzerland	Dr Doris Wohlfender-Bühler – State Secretariat for Education, Research and Innovation | Prof Anna Jazwinska-Müller – University Fribourg | Dr Laurent Salzarulo – State Secretariat for Education, Research and Innovation
Türkiye	Prof Ahmet Ademoglu – Bogazici University | Dr Jale Sahin – TÜBİTAK
United Kingdom	Dr Mark Palmer – Medical Research Council | Mr Tim Willis – Biotechnology and Biological Sciences Research Council

EMBC Officers 2022

President

Leszek Kaczmarek — Poland

Vice Presidents

Lucia Banci — Italy
Virginijus Šikšnys — Lithuania

Secretary General

Anne Paoletti — France

Finance Committee Chair

Elene Hoffert — France

Finance Committee Vice Chair

Barbara Ohnesorge — Germany

Finance Committee

Permanent members

France
Germany
Italy
Spain
United Kingdom

Elected members (2022–2024)

Israel
Lithuania
Norway
Portugal
Poland
The Netherlands
Türkiye

Strategic Working Party 2022

Anna Akhmanova	Netherlands
Lucia Banci	Italy
Hemma Bauer	Austria
Elena Hoffert	France
Leszek Kaczmarek *(Chair)*	Poland
Angela Nieto	Spain
Barbara Ohnesorge	Germany
Mark Palmer	United Kingdom
Anne Paoletti	France
Jale Şahin	Türkiye
Eirikur Steingrimsson	Iceland
Boris Turk	Slovenia

Contact:
Sophia Hercus
Assistant
EMBC_Office@embo.org

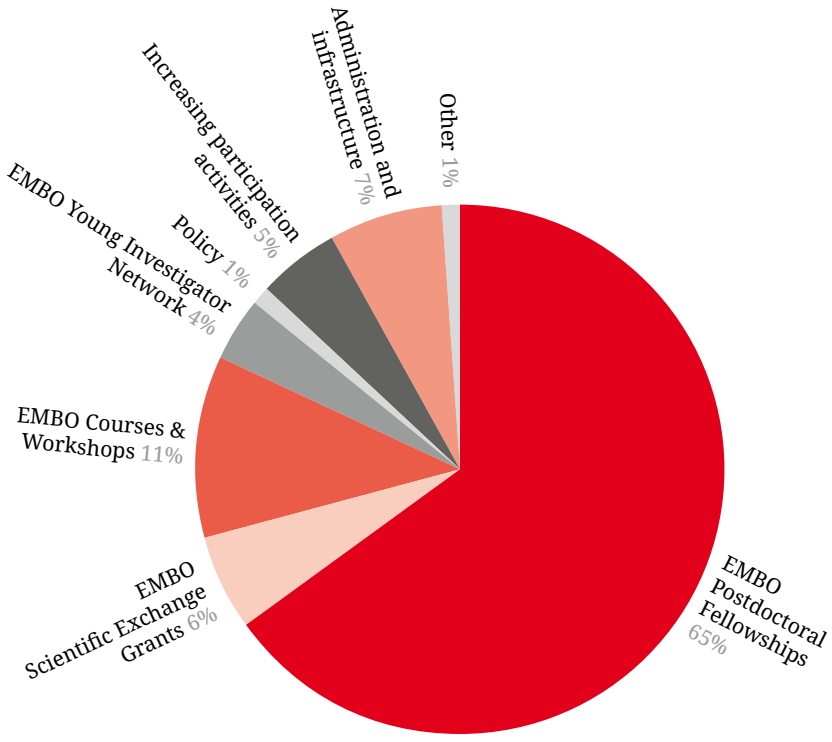
Financial contributions and use for EMBO Programmes

Entire EMBC Member States budget 2022: **Euro 29,000,000**	% of total contributions
Austria	2.00
Belgium	2.38
Croatia	0.26
Czech Republic	0.85
Denmark	1.64
Estonia	0.12
Finland	1.18
France	13.26
Germany	18.63
Greece	1.03
Hungary	0.57
Iceland	0.09
Ireland	1.05
Israel	1.63
Italy	9.74
Lithuania	0.23
Luxembourg	0.19
Malta	0.05
Montenegro	0.02
Netherlands	4.11
Norway	2.20
Poland	2.54
Portugal	1.00
Slovak Republic	0.44
Slovenia	0.20
Spain	6.44
Sweden	2.69
Switzerland	3.69
Türkiye	4.46
United Kingdom	17.31

Entire EMBC Associate Member States and Co-operation Partners budget 2022: **Euro 3,048,153**	% of total contributions
Chile	4.71
India	81.05
Singapore	10.96
Taiwan	3.28

Budgeted use for EMBO Programmes

Rounded to full percent.



EMBO Council

EMBO Officers 2022

EMBO Secretary General	Paul Nurse
Chair, EMBO Council	Michael N. Hall
Vice Chair, EMBO Council	Michel Labouesse

EMBO Council members 2022

Elected for term(s) of office[1]	*Name*	*Country/Town*
2022-2024	Naama Barkai	IL-Rehovot
2021-2023	David Baulcombe	UK-Cambridge
2017-2019, 2020-2022	Adrian Bird	UK-Edinburgh
2021-2023	Deborah Bourc'his	FR-Paris
2022-2024	James Briscoe	UK-London
2018-2020, 2021-2023	Matthew Freeman	UK-Oxford
2019-2021, 2022-2024	Eileen Furlong	DE-Heidelberg
2020-2022	Crisanto Gutierrez	ES-Madrid
2017-2019, 2020-2022	Michael N. Hall	CH-Basel
2018-2020, 2021-2023	Michel Labouesse	FR-Paris
2019-2021, 2022-2024	Jiri Lukas	DK-Copenhagen
2021-2023	Marta Miaczynska	PL-Warsaw
2020-2022	Maria Rescigno	IT-Milan
2022-2024	Brenda A. Schulman	DE-Munich
2017-2019, 2020-2022	Claudio E. Sunkel	PT-Porto

Ex officio Council members

Fiona M. Watt	Director, EMBO
Paul Nurse	Secretary General, EMBO

Observers

Leszek Kaczmarek	President, EMBC
Anne Paoletti	Secretary General, EMBC
Edith Heard	Director General, EMBL
Paul Nurse	Secretary General, EMBO
David Ron	Chair EMBO Membership Committee
Christoph Dehio	Chair EMBO Young Investigator Committee
Zoi Lygerou	Chair EMBO Course Committee
Malcolm J. Bennett	Chair EMBO Fellowship Committee
Noel F. Lowndes	Chair EMBO Global Investigator Network Committee
James Briscoe	Chair EMBL SAC

Contact:
Sophia Hercus
Assistant
Council_Office@embo.org

1 EMBO Council members are elected for a three-year term of office and may be re-elected for one additional term.

EMBO Committees

Course Committee

2015 Zoi Lygerou GR *Chair*
2020 Eva Benkova AT
2020 Carmen Buchrieser FR
2020 Janusz M. Bujnicki PL
2019 Anne-Claude Gavin CH
2021 Elina Ilkonen FI
2022 Guillermo Montoya DK
2022 Panayiota Poirazi GR
2020 Freddy Radtke CH
2020 Michael Sieweke DE
2021 Petr Svoboda CZ
2020 Nicholas Tapon UK

Scientific Exchange Grants Advisory Board

2020 Claudio Alfieri UK
2020 Arkaitz Carracedo ES
2020 Robert Hänsel-Hertsch DE
2020 Bruno Hudry FR
2020 Gabriel Ichim FR
2020 Marketa Kaucka Petersen DE
2020 Patrycja Kozik UK
2020 Nataly Kravchenko-Balasha IL
2020 Patricia Monteiro PT
2020 Silvia Portugal PT
2020 Jörg Renkawitz PL
2020 Adrien Rousseau UK
2020 Julia Santiago Cuellar CH
2020 Anne Schütz DE
2020 David Schwefel DE
2020 Erdinc Sezgin SE
2020 Marta Shahbazi UK
2020 Mehmet Somel TR
2020 Daan Swarts DE
2020 Melissa Vos DE
2020 Michael Zimmermann DE

Fellowship Committee

2018 Malcolm J. Bennett UK *Chair*
2018 Frédéric Berger AT
2020 Sarah Butcher FI
2017 Francesco Cecconi DK
2019 Ian Chambers UK
2020 Mario de Bono AT
2018 Fatima Gebauer Hernández ES
2021 Alain Goossens BE
2019 Isabel Gordo PT
2021 Gilles Laurent DE
2019 Ben Luisi UK
2020 Vivek Malhotra ES
2021 Maria Dolores Martin-Bermudo ES
2021 Rosario Rizzuto IT
2020 Raffaella Santoro CH
2021 Bruno Silva-Santos PT
2019 Lea Sistonen FI
2020 Robert Tampé DE
2021 Boris Turk SI
2021 Štěpánka Vaňáčová CZ

Young Investigator Committee

2016 Christoph Dehio CH *Chair*
2021 Alexander Aulehla DE
2018 Buzz Baum UK
2019 Pascal Genschik FR
2019 Ana-Maria Lennon-Duménil FR
2021 Guillermina López-Bendito ES
2021 Marcin Nowotny PL
2020 Jan-Michael Peters AT
2021 Michael Sixt AT
2021 Johanna Joyce CH

Installation Grants Committee

2022 Karim Labib UK *Chair*
2022 Melanie Blokesch CH
2022 Andrew Carter UK
2022 Karin de Visser NL
2022 Carsten Janke FR
2022 Luke O'Neill IE
2022 Giampietro Schiavo UK
2022 Katja Sträßer DE
2022 Jesper Svejstrup DK
2022 Miguel Torres ES
2022 Dolf Weijers NL

Global Investigator Network Committee

2019 Noel F. Lowndes IE *Chair*
2019 M. Madan Babu US
2022 Toni Gabaldón ES
2019 Manuela Baccarini AT
2019 Cosima T. Baldari IT
2019 Chris Bowler FR
2022 Gillian M. Griffiths UK
2019 Cayetano González ES
2019 Marc Lecuit FR
2019 Ramesh S. Pillai CH
2022 Marina V. Rodnina DE
2019 Iris Salecker FR
2019 Blanche Schwappach DE

Membership Committee

2018 David Ron UK *Chair*
2020 Ralf Bartenschlager DE
2019 Cédric Blanpain BE
2019 Dana Branzei IT
2022 Stephan Grill DE
2022 Anja Groth DK
2021 Ben Lehner ES
2019 Susanne Mandrup DK
2021 Jane Parker DE
2020 Lori Passmore UK
2016 Peter Scheiffele CH
2020 Miguel Soares PT

Policy Advisory Group[1]

2012 Geneviève Almouzni FR
2012 Ioannis Economidis BE*
2013 Anne Ephrussi DE
2012 Toivo Maimets EE*
2012 Claudio E. Sunkel PT
2015 Gerrit van Meer NL

EMBO | EMBL Symposia Committee[1]

2022 Fiona M. Watt DE *Chair*
2019 Edith Heard DE, EMBL *Chair*
2020 Alba Diz-Muñoz DE, EMBL*
2008 Anne Ephrussi DE, EMBL
2020 Cornelius Gross IT, EMBL
2022 Kristina Haase ES, EMBL*
2021 Duncan Odom DE
2022 Markus Ralser DE
2022 Nicolas Tapon UK
2022 Iva Tolic HR
2022 Athanasios Typas DE, EMBL
2019 Helle Ulrich DE

Publications Advisory Board[1]

2019 Blanche Schwappach DE *Chair*
2018 Pedro Beltrao UK*
2021 Iain Cheeseman US*
2019 Ulrich Dirnagl DE*
2017 Kristian Helin UK
2017 Chonnettia Jones US*
2021 Louise Page US*
2018 Maya Schuldiner IL

FEBS | EMBO Women in Science Committee[1]

2022 Caroline Dean UK *Chair*
2020 Frances Brodsky UK
2020 Anne Dejean FR
2020 Bassem Hassam FR
2019 Frauke Melchior DE
2020 Thomas Nyström SE
2018 Isabelle Vernos ES

Internal Auditor EMBL

Tomasz Smolarek

External Auditors

KPMG

EMBO Audit

KPMG

1 Committee includes EMBO Members and external advisors (*)

EMBO Members

Name ▼	Institute	Research interest
Stein **Aerts**	KU Leuven | Belgium	Learning the genomic regulatory code
Ivan **Ahel**	University of Oxford | United Kingdom	ADP-ribosylation in regulation of genome stability
Sigal **Ben-Yehuda**	The Hebrew University | Jerusalem, Israel	Bacterial development and cell-cell communication
Guillaume **Charras**	University College London | United Kingdom	Mechanics of cells and tissues
Menna R. **Clatworthy**	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom; and Wellcome Sanger Institute | Hixton, United Kingdom	Tissue immunity in health and disease
Virginie **Courtier-Orgogozo**	Institut Jacques Monod | Paris, France; and Ecole Polytechnique | Palaiseau, France	Evolution and genetics
David **Drew**	Stockholm University | Sweden	Structure and mechanism of SLC transporters
Miki **Ebisuya**	EMBL Barcelona | Spain	Synthetic developmental biology
Johan **Elf**	Uppsala University | Sweden	Biophysical measurements in living bacteria
Ralf **Erdmann**	Ruhr-Universität | Bochum, Germany	Biogenesis and function of peroxisomes
Sarah-Maria **Fendt**	KU Leuven | Belgium	Cancer and metabolism
Friedrich **Frischknecht**	University of Heidelberg | Germany	Plasmodium formation, migration and attenuation
Richard J. **Gilbertson**	University of Cambridge | United Kingdom	Lineage origins and genetic drivers of cancer
Florent **Ginhoux**	Institut Gustave Roussy | Villejuif, France; and Singapore Immunology Network (SIgN), A*STAR | Singapore	Ontogeny & differentiation of mononuclear phagocytes
Cornelius T. **Gross**	EMBL Rome| Monterotondo, Italy	Neural control and adaptation of instinctive fear
Claes M. **Gustafsson**	University of Gothenburg | Sweden	Mitochondrial gene expression in mammalian cells
Ian R. **Henderson**	University of Cambridge | United Kingdom	Genetic and epigenetic control of plant genomes
Andrés **Hidalgo**	Centro Nacional de Investigaciones Cardio-vasculares (CNIC) | Madrid, Spain; and Yale University | New Haven, United States	Physiology of the innate immune system
Adrian V.S. **Hill**	University of Oxford | United Kingdom	Vaccine design & development using novel immunogens
Gwyneth **Ingram**	École Normale Supérieure | Lyon, France	Inter-tissue communication in plant reproduction
Bożena **Kamińska-Kaczmarek**	Nencki Institute | Warsaw, Poland	Tumor microenvironment at single-cell resolution
Beat **Keller**	University of Zurich | Switzerland	Diversity of disease resistance genes in wheat
Romain **Koszul**	Institut Pasteur | Paris, France	Functional organization of chromosomes
Benoit **Ladoux**	Institut Jacques Monod | Paris, France	Cell and tissue mechanobiology
Madeline A. **Lancaster**	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Human brain development in cerebral organoids
Edward A. **Lemke**	Johannes-Gutenberg-Universität | Mainz, Germany	Synthetic biophysics of protein disorder
Prisca **Liberali**	Friedrich Miescher Institute | Basel, Switzerland	Design principles of tissue organisation
Marina **Mapelli**	European Institute of Oncology (IEO) | Milan, Italy	Mechanisms of oriented divisions and self-renewal
Francisco J.M. **Mojica**	University of Alicante | San Vicente del Raspeig, Spain	Biology of the CRISPR-Cas systems
Jens **Nielsen**	BioInnovation Institute | Copenhagen, Denmark; and Chalmers University of Technology | Göteborg, Sweden	Systems biology of metabolism
Raquel A. **Oliveira**	Instituto Gulbenkian de Ciência | Oeiras, Portugal	Structure and function of mitotic chromosomes

Name ▼	Institute	Research interest
Anne **Osbourn**	John Innes Centre | Norwich, United Kingdom	Harnessing plant metabolic diversity
Francesco **Pennacchio**	University of Naples | Portici, Italy	Insect multitrophic interactions
Stefan M. **Pfister**	Hopp Children's Cancer Center | Heidelberg, Germany	Tumor classification, preclinical drug testing
Paola **Picotti**	ETH Zurich | Switzerland	Structural systems biology of neurodegeneration
Gaia **Pigino**	Human Technopole | Milan, Italy	Structure, dynamics and functions of cilia
Šárka Pospíšilová	Masaryk University | Brno, Czech Republic	p53 abnormalities and clonal evolution of leukemia
Simona **Radutoiu**	Aarhus University | Denmark	Signalling in plant-microbe interactions
Julian C. **Rayner**	University of Cambridge | United Kingdom; and Wellcome Connecting Science | Cambridge, United Kingdom	Malaria: plasmodium-erythrocyte interactions
Peter **Rehling**	University Medical Center | Göttingen, Germany; and Max Planck Institute for Multi-disciplinary Sciences | Göttingen, Germany	Mitochondrial biogenesis and gene expression
Carlos **Ribeiro**	Champalimaud Centre for the Unknown | Lisbon, Portugal	The neuronal basis of nutrition
Frank **Schnorrer**	Institut de Biologie du Développement de Marseille (IBDM) | France	Biomechanics of muscle and sarcomere morphogenesis
Yang **Shi**	University of Oxford | United Kingdom	Epigenetic and epitranscriptomic regulation in cancer
Sara **Sigismund**	Università degli Studi | Milan, Italy	Organelle communication regulates EGFR signalling
María S. **Soengas**	Centro Nacional de Investigaciones Oncológicas (CNIO) | Madrid, Spain	Mechanisms and therapeutic targets in melanoma
Evi **Soutoglou**	University of Sussex | Brighton, United Kingdom	Nuclear structure in DNA repair
Molly M. **Stevens**	Imperial College | London, United Kingdom	Biomaterials for biosensing and therapeutics
Magali **Suzanne**	Université Paul Sabatier | Toulouse, France	Morphogenesis driven by cell extrusion mechanics
Marvin E. **Tanenbaum**	Hubrecht Institute | Utrecht, Netherlands; and Oncode Institute | Utrecht, Netherlands	Single-molecule dynamics of RNA regulation in vivo
Giuseppe **Testa**	Human Technopole | Milan, Italy	High definition disease and evolutionary modelling
Fabian J. **Theis**	Helmholtz Zentrum München | Neuherberg, Germany; and Wellcome Sanger Institute | Hixton, United Kingdom	Machine learning in single cell genomics
Barbara **Treutlein**	ETH Zurich | Basel, Switzerland	Single-cell analysis of development & regeneration
Athanasios **Typas**	EMBL Heidelberg | Germany	High-throughput interaction profiling in bacteria
Michiel **Vermeulen**	Radboud University | Nijmegen, Netherlands	Gene expression regulation in health and disease
Helen **Walden**	University of Glasgow | United Kingdom	Specificity and disease in ubiquitin signalling
Cisca **Wijmenga**	University of Groningen | Netherlands	Multi-omics analysis of complex human diseases
Ofer **Yizhar**	Weizmann Institute of Science | Rehovot, Israel	Optogenetic dissection of neural circuits
Johannes **Zuber**	IMP | Vienna, Austria	Finding and understanding cancer dependencies

Contact:
membership@embo.org

EMBO Associate Members

Name ▼	Institute	Research interest
Nick **Barker**	Institute of Molecular and Cell Biology (IMCB) | Singapore	Epithelial stem cells and cancer
J. Wade **Harper**	Harvard Medical School | Boston, United States	Proteome and organelle quality control
Le **Kang**	Chinese Academy of Sciences | Beijing, China	Ecological genomics and adaptation of locusts
Nevan J. **Krogan**	Max Planck Institute of Molecular Cell Biology and Genetics | San Francisco, United States	Understanding disease through systems-level data
Gabriel A. **Rabinovich**	University of Buenos Aires | Argentina	Lectin-glycan interactions in immune regulation
Jamie **Rossjohn**	Monash University | Melbourne, Australia; and Cardiff University | United Kingdom	The molecular bases underpinning immunity
Rajan **Sankaranarayanan**	Centre for Cellular and Molecular Biology (CCMB) | Hyderabad, India	Quality control during protein biosynthesis
Igor **Stagljar**	University of Toronto | Canada; and Mediterranean Institute for Life Sciences (MedILS) | Split, Croatia	Proteomics and chemical genomics
Kenneth S. **Zaret**	University of Pennsylvania | Philadelphia, United States	Overcoming chromatin to control cell fate

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EMBO Postdoctoral Fellowships

Applications and awards 2018–2022

Nationality	Applications (total)	%	Awards (total)	%	Success rate (%)
Austria	72	1.2	26	2.7	36.1
Belgium	100	1.7	10	1.0	10.0
Croatia	31	0.5	7	0.7	22.6
Czech Republic	78	1.3	9	0.9	11.5
Denmark	20	0.3	3	0.3	15.0
Estonia	24	0.4	2	0.2	8.3
Finland	36	0.6	4	0.4	11.1
France	622	10.5	82	8.4	13.2
Germany	527	8.9	133	13.6	25.2
Greece	86	1.4	16	1.6	18.6
Hungary	49	0.8	7	0.7	14.3
Iceland	2	0.0	0	0.0	0.0
India	535	9.0	40	4.1	7.5
Ireland	34	0.6	1	0.1	2.9
Israel	283	4.8	70	7.2	24.7
Italy	473	8.0	81	8.3	17.1
Lithuania	23	0.4	8	0.8	34.8
Luxembourg	1	0.0	0	0.0	0.0
Malta	3	0.1	0	0.0	0.0
Montenegro	1	0.0	1	0.1	100.0
Netherlands	194	3.3	40	4.1	20.6
Norway	10	0.2	1	0.1	10.0
Poland	98	1.6	16	1.6	16.3
Portugal	153	2.6	31	3.2	20.3
Singapore	8	0.1	1	0.1	12.5
Slovak Republic	38	0.6	7	0.7	18.4
Slovenia	18	0.3	5	0.5	27.8
Spain	665	11.2	91	9.3	13.7
Sweden	46	0.8	4	0.4	8.7
Switzerland	75	1.3	24	2.5	32.0
Türkiye	69	1.2	7	0.7	10.1
United Kingdom	220	3.7	57	5.8	25.9
United States / Canada	276	4.6	52	5.3	18.8
Others	1073	18.1	142	14.5	13.2
Total	5943		978		16.5

Year	Applications (total)	Awards (total)	Success rate (%)
2022	1101	228	20.7
2021	1166	224	19.2
2020	1287	150	11.7
2019	1189	185	15.6
2018	1200	191	15.9

Contact:
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Programme Head
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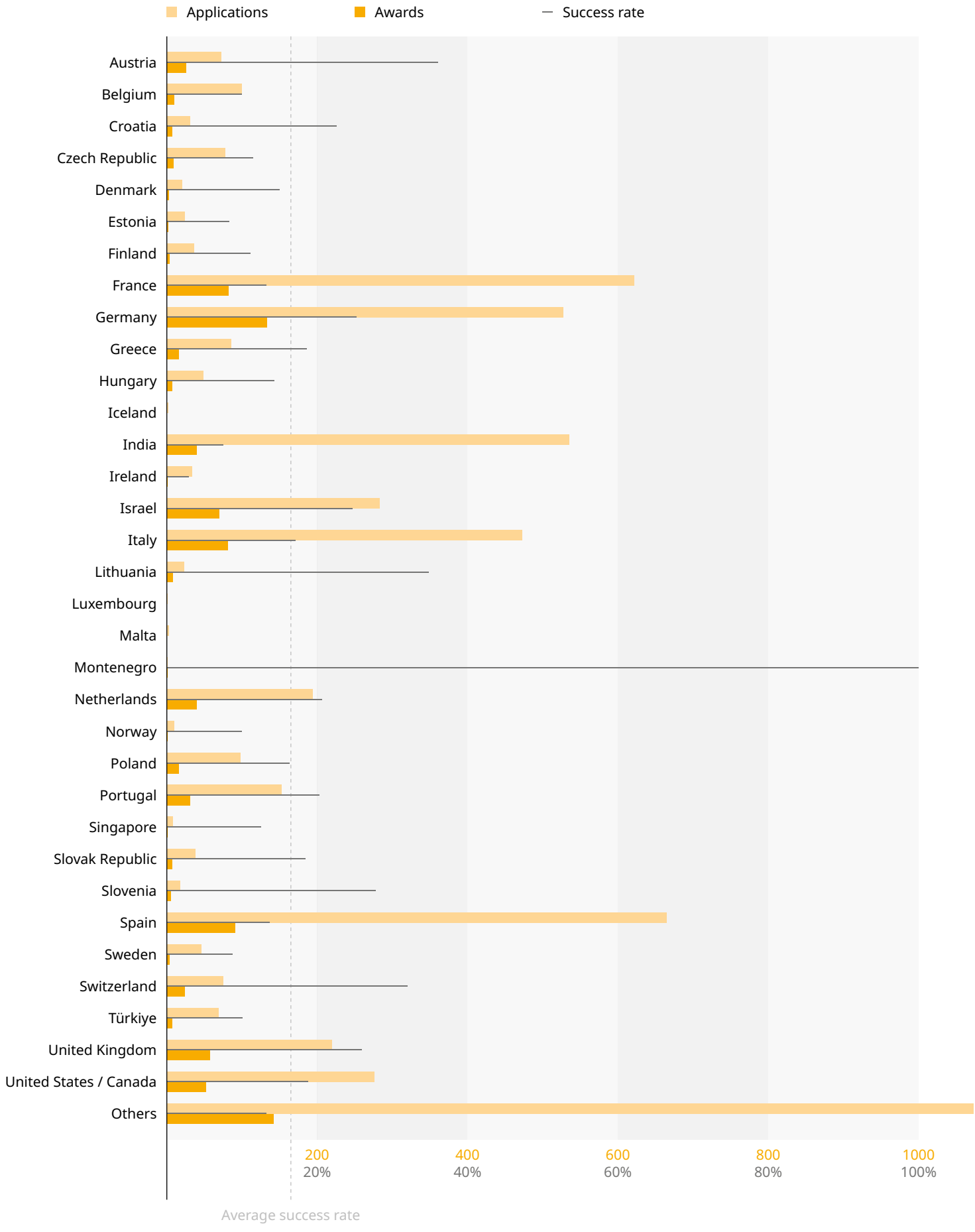
Applications and awards 2018 – 2022
(graphical representation)



Geographical distribution 2022

To \ From *(refers to nationality)*	Austria	Belgium	Croatia	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Iceland	India	Ireland	Israel	Italy	Lithuania	Luxembourg	Malta	Montenegro	Netherlands	Norway	Poland	Portugal	Singapore	Slovak Republic	Slovenia	Spain	Sweden	Switzerland	Türkiye	United Kingdom	USA / Canada	Others	Total
Austria	1 1		1					3	5 1	1 1			3 1		3 2								1	1		1		2				3	1	6 2	32 8
Belgium	1			1				2	3 2	1			2								1		2					7					3	6 3	29 5
Croatia																																			
Czech Republic								1					1											3 2				1				1 1			7 3
Denmark		3		1				8 1	3 2				5 2		1	3							1	1				5 1			2	3	4	7	47 6
Estonia						1															1														2
Finland				1				2						1		1					1		1	1							1	1	1	1	12
France	1	3	1				1	3	1		1		15 1		1	15 2					1			3				12		1		1	8 1	21 1	89 5
Germany	1	3	1	2 1	1			10 2	11 8	1	1		12		3 1	6 1		1			5 2		1 1	1	1	2		10 1	1	2 1	4	2 1	9 1	33 6	124 26
Greece																																		1	1
Hungary													1																						1
Iceland																																		1	1
India																																			
Ireland													3															1				1		1	6
Israel				1					3 1				5								1			1				3		3 1			1	4 1	22 3
Italy				1 1				2 2	1 1						1 1	10 6							2 1	1 1				3					1	4 2	26 15
Lithuania																	3 2																		3 2
Luxembourg																										1 1		1			1 1				3 2
Malta																																			
Montenegro																																			
Netherlands			1 1					4	2				2		3 1	4								2 1				3 1		1		1 1	4 1	14 2	41 8
Norway																3 1					2 1											2	3 1	10 3
Poland																							3 2											1 1	4 3
Portugal								1	1				2											3				5 1					1	3	16 1
Singapore																																			
Slovak Republic																																			
Slovenia													1														1								2
Spain	3 1	1	1 1					5	3 1	2 1			4			7					2 1			1 1				6 3	1			4	3 2	10	53 11
Sweden				1	1		1	4	4				6 1		1	2					2		1			1		3			1 1	2		9 2	39 4
Switzerland	4 2	2	1	1			1	23 6	12 5	2 1			5		4 1	11 3					7		1	1		1	1	16 6		3 1		3	6 1	23 7	128 33
Türkiye																															1 1		4	5 1
United Kingdom		2 1		1	2 1	2		15 3	3 1	2 1			25 3	1 1	4 2	16 3					1 1		3 2	5 3	1		1	12 1	3	1 1			8	37 5	145 29
USA / Canada	1 1	6 1	2	5	1	2	1 1	28 2	29 8	5	4 1		7	1	29 12	30 10	1				16 3	1	3 1	2 1		2 2	2 1	26 5	2	11 4	3	10 3		5	235 56
EMBL[1]													1			1					1													2 2	5 2
Others								3	2							1 1						1						2				2 1		2	13 2
Total	12 5	20 2	8 2	15 2	5 1	5	4 1	114 16	83 30	14 4	6 1		100 8	3 1	50 20	110 27	4 2	1			41 8	2	19 7	26 9	2	8 3	5 1	118 19	7	22 8	12 2	35 8	52 6	198 35	1101 228

applications top btm awards

1 EMBL (all sites) are not counted towards the country the respective site is located in.

EMBO Postdoctoral Fellowships awarded in 2022
Nationals of EMBC Member States

Name ▼	Home institute	Group leader	Host institute	Project
Umberto **Aiello**	Institut Jacques Monod | Paris, France	Lars Steinmetz	University | Stanford, United States	RNA-binding proteins and their role on gene expression by a Matched Interactome of RNAs and Proteins
Maria Luz **Annacondia Lopez**	Swedish University of Agricultural Sciences | Uppsala, Sweden	Sebastian Marquardt	University of Copenhagen | Frederiksberg, Denmark	Deciphering the link between short promoter-proximal RNAs (sppRNAs) and gene expression
Lukas **Anneser**	MPI für Hirnforschung | Frankfurt, Germany	Rainer Friedrich	Friedrich Miescher Institute | Basel, Switzerland	Molecular, functional and behavioral analysis of neuromodulatory networks in the zebrafish telencephalon
Elad **Arad**	Ben-Gurion University of the Negev | Beer-Sheva, Israel	Oleg Gang	Columbia University | New York, United States	Establishing Dynamic DNA Architectures with CRISPR-Cas Editing Tools
Felix **Baier**	Harvard University | Cambridge, United States	Gilles Laurent	MPI für Hirnforschung | Frankfurt, Germany	Functional homeostasis in a poikilothermic brain
Tiphaine **Bailly**	Institute for Evolutionary Life Sciences | Groningen, Netherlands	Daniel Kronauer	Rockefeller University | New York, United States	Engineering odorless ants to study pheromone communication in insect societies
Claudio **Ballabio**	CIBIO | Trento, Italy	Leanne Li	The Francis Crick Institute | London, United Kingdom	Neural tracing to map cancer innervation
Noa **Barak-Gavish**	Weizmann Institute of Science | Rehovot, Israel	Julia Vorholt	ETH Zurich, Switzerland	Tapping into the microbial interactions that govern bacterial phenotypic plasticity in plant microbiomes
Amandine **Barral**	CNRS Institute of Human Genetics | Montpellier, France	Zaret Kenneth	University of Pennsylvania | Philadelphia, United States	How can H3K9me3-heterochromatin limit pioneer factor action and guide changes in cell fate?
Ondrej **Belan**	Francis Crick Institute | London, United Kingdom	Stephen J. Elledge	Harvard Medical School | Boston, United States	Exploring mechanisms of viral immune evasion
Maelle **Bellec**	Institut de Génétique Moléculaire (IGMM) | Montpellierllier, France	Didier Stainier	Max-Planck-Institut für Herz- und Lungenforschung | Bad Nauheim, Germany	Transcriptional adaptation during vertebrate development at the single-cell level
Adam **Bennett**	University of Oxford, United Kingdom	Turgay Dalkara	Hacettepe University | Ankara, Türkiye	Differentiation and characterisation of brain-derived extracellular vesicles from the peripheral blood for understanding the neuropathophysiological mechanisms of migraine
Alexandra **Bergfort**	Freie Universität | Berlin, Germany	Karla Neugebauer	Yale University | New Haven, United States	Novel splicing models considering the co-transcriptional context
Tiziano **Bernasocchi**	Institute Of Oncology Research (Ior) | Bellinzona, Switzerland	Raul Mostoslavsky	Massachusetts General Hospital | Boston, United States	Metabolome-epigenome interplay in the liver metastatic niche
Udi **Binshtok**	Tel Aviv University, Israel	David Anderson	California Institute of Technology | Pasadena, United States	Mechanisms controlling persistent neural activity that underlie persistent emotional states
Leonard **Blaschek**	Stockholm University, Sweden	Jürgen Kleine-Vehn	Universität Freiburg, Germany	Cell wall integrity sensing and its feedback on cell wall composition in plants
Thomas Josef **Böddeker**	ETH Zurich, Switzerland	Roland L. Knorr	Humboldt University | Berlin, Germany	Controlling intracellular structures through condensate-mediated modulations of the cell membrane and cytoskeleton
Iakovos **Bomponis**	EMBL | Heidelberg, Germany	Martin Polz	University | Vienna, Austria	Viral cooperation as a novel mechanism to overcome bacterial defenses
Alessandro **Borsellini**	University Medical Centre | Leiden, Netherlands	Alessandro Vannini	Human Technopole | Milano, Italy	Structure and mechanisms of human condensin complexes and their regulation by co-factors

Name ▼	Home institute	Group leader	Host institute	Project
Nadav **Brandes**	Hebrew University | Jerusalem, Israel	Jimmie Ye	University of California | San Francisco, United States	Functionalizing protein-affecting mutations by integrating deep learning and single-cell genomics
David **Brückner**	Ludwig-Maximilians-Universität | München, Germany	Edouard Hannezo	Institute of Science and Technology Austria (IST) | Klosterneuburg, Austria	A mechano-chemical theory for stem cell fate decisions in organoid development
Benjamin **Buchmuller**	Technische Universitat | Dortmund, Germany	Tom Muir	Princeton University, United States	Investigating the locus specificity of dominant-negative transcriptional activation by cancer-associated histone mutations
James **Budzak**	Imperial College | London, United Kingdom	Nicolai Siegel	Ludwig-Maximilians-Universität | München, Germany	What determines the hierarchy of VSG antigen switching in T. brucei?
Robin **Burns**	Gregor Mendel Institute of Molecular Plant Biology | Vienna, Austria	Ian R. Henderson	University of Cambridge, United Kingdom	Evolution of centromere organization and function in Arabidopsis
Pedro **Buzon Rodriguez**	University | Groningen, Netherlands	Benjamin Schuler	University of Zurich, Switzerland	Disordered paths toward supramolecular symmetry: how viral proteins use charged disordered regions to steer the self-assembly of icosahedral protein shells
Robin **Caire**	Université de Lyon | Lyon, France	Stefano Piccolo	Università di Padova, Italy	Role of extracellular matrix as regulator of aging through mechano-signaling
Alicia **Calvo-Villamañán**	Institut Pasteur | Paris, France	Alvaro San Millan	Cajal Institute | Madrid, Spain	Using CRISPRi and transcriptomics to have an integrative understanding of plasmid-mediated antibiotic resistance
Ido **Caspy**	Tel Aviv University, Israel	Tanmay Bharat	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Structural studies of cell surface mediated formation of multicellular archaea
Lucia **Cassella**	EMBL | Heidelberg, Germany	Velia Siciliano	Istituto Italiano Di Tecnologia | Napoli, Italy	CeRN: a Cell-free miRNA-sensing platform
Elisa **Colombo**	Johannes-Gutenberg-Universität | Mainz, Germany	Oliver Harschnitz	Human Technopole | Milano, Italy	ADA-SCID beyond ex vivo gene therapy: implications of ADA deficiency on neurodevelopment
Tim **Coorens**	Wellcome Sanger Institute | Cambridge, United Kingdom	Gad Getz	Broad Institute of MIT and Harvard | Cambridge, United States	Novel approaches to trace the spatial evolution of cancer in single cells
Adrijana **Crncec**	University of Sussex | Brighton, United Kingdom	Steven Cappell	NIH | Bethesda, United States	Uncovering mechanisms underlying senescence in cycling cells
Kristýna **Čunátová**	Academy of Sciences of the Czech Republic | Prague, Czech Republic	Erika Fernandez-Vizarra	Università di Padova, Italy	Role of mitochondrial complex III function in neuronal health and metabolism
Anna **Cuomo**	EMBL's European Bioinformatics Institute (EMBL-EBI) | Hinxton, United Kingdom	Joseph Powell	Sydney | Garvan Institute of Medical Research, Australia	Cell2Pop: Extending single-cell approaches to population scale
Dariusz **Czernecki**	Institut Pasteur | Paris, France	Julian E. Sale	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Efficient conjugation of large DNA sequences to mammalian cells
Melania Jennifer **D'Angiolo**	Institute for Research on Cancer and Aging (IRCAN) | Nice, France	Jürg Bähler	University College London, United Kingdom	An integrative framework to uncover ageing-related roles of conserved unknown genes in fission yeast
Claire **Dessalles**	École Polytechnique | Palaiseau, France	Aurélien Roux	University of Geneva, Switzerland	Topological defects as organizers of morphogenesis
Matthijs **Dorst**	Karolinska Institutet | Stockholm, Sweden	Koen Vervaeke	University | Oslo, Norway	Analysis of place field generation in the retrosplenial cortex
Quinten **Ducarmon**	Leiden University Medical Center | Leiden, Netherlands	Georg Zeller	EMBL | Heidelberg, Germany	Discovering virulence factors of gut microbes to improve the functional understanding of their association with colorectal cancer

Name ▼	Home institute	Group leader	Host institute	Project
Kevin **Eislmayr**	University | Vienna, Austria	Russell Vance	University of California | Berkeley, United States	IFNg holds Shigella at bay – identification of relevant host responses in a novel mouse model
Theresa **Endres**	University | Würzburg, Germany	Karlene Cimprich	Stanford University, United States	Mechanisms of R-loop processing in non-dividing neuronal cells
Thomas **Esmangart De Bournonville**	Université de Rennes 1 | Rennes, France	Bruno Lemaitre	Swiss Federal Institute of Technology | Lausanne, Switzerland	Harnessing the power of Drosophila to probe the anti-tumor function of Antimicrobial Peptides
Javier **Espadas Moreno**	Instituto Biofisika Institutoa | Leioa, Spain	Aurélien Roux	University of Geneva, Switzerland	Functional analysis of the conserved membrane remodeling mechanism by the ancient archaeal ESCRT-III complex
David **Exposito-Alonso**	King's College | London, United Kingdom	Christopher Walsh	Harvard Stem Cell Institute | Cambridge, United States	Genetic mechanisms underlying human cortical evolution
Chiara **Falcomatà**	Technische Universität | München, Germany	Brian D. Brown	Icahn School of Medicine at Mount Sinai | New York, United States	Uncovering and targeting subtype specific inflammatory signals in pancreatic cancer
Marina **Farkas**	Thomas Jefferson University | Philadelphia, United States	Marcus Buschbeck	Josep Carreras Leukaemia Foundation | Barcelona, Spain	Elucidating the role of the histone variant macroH2A1.2 as a metabolic sensor in cell fate decisions
Alvaro Daniel **Fernandez Fernandez**	University | Gent, Belgium	Cyril Zipfel	University of Zurich, Switzerland	Identification of novel components involved in the perception of RALF peptides in plants
Daniel **Fisch**	Francis Crick Institute | London, United Kingdom	Jonathan Kagan	Children's Hospital Boston | Boston, United States	Dynamic threat assessment and signal integration by innate immune signalling complexes
Patrick **Fischer**	Dana-Farber Cancer Institute | Boston, United States	Sebastian Hiller	Biozentrum | University of Basel, Switzerland	A technology platform to drug proteins in their nascent-chain forms
Patrick **Forny**	University Hospital | Zurich, Switzerland	David Pagliarini	Washington University | St Louis, United States	Deorphanizing mitochondrial proteins by applying systems biochemistry to improve the understanding of primary mitochondrial disorders
Alessio **Fragasso**	University of Technology | Delft, Netherlands	Christine Jacobs-Wagner	University | Stanford, United States	Uncovering the biophysical principles that govern the interaction between cells and antimicrobial peptides
Davide Giuseppe **Franchina**	Luxembourg Centre for Systems Biomedicine (LCSB) | Esch-sur-Alzette, Luxembourg	Sean Bendall	Stanford University | Palo Alto, United States	Understanding the metabolic environments of human B cells in tissues
Alex **Fratzl**	Sainsbury Wellcome Centre for Neural Circuits and Behaviour | London, United Kingdom	Botond Roska	Institute of Molecular and Clinical Ophthalmology | Basel, Switzerland	Contribution of distinct retinal output channels to sensorimotor processing
Joshua **Frenster**	New York University, United States	Alfonso Martinez Arias	Universitat Pompeu Fabra | Barcelona, Spain	A message of selfless death – Communication of fitness and cell competition during early development
Elisabetta **Furlanis**	University of Basel, Switzerland	Gordon Fishell	Harvard Medical School | Boston, United States	Investigating the time- and input-dependent maturation of layer 1 cortical interneurons across postnatal brain development
Tatiana **Gallego**	MPI für Hirnforschung | Frankfurt, Germany	Fernando Garcia-Moreno	Achucarro Basque Center for Neuroscience | Leioa, Spain	Developmental trends that led the diversification of thalamic neurons
Alessandro **Galloni**	Francis Crick Institute | London, United Kingdom	Aaron Milstein	Rutgers University | Piscataway, United States	Neural circuit regulation of plasticity and population coding in the hippocampus
Alessandra **Gentile**	Max-Planck-Institut für Herz- und Lungenforschung | Bad Nauheim, Germany	Katherine Long	King's College | London, United Kingdom	Investigating fluid flow-mediated extracellular matrix remodelling during tissue folding
Chiara **Giannone**	San Raffaele Institute / DIBIT | Milano, Italy	Matthew Shoulders	Massachusetts Institute of Technology, United States	Cellular and molecular mechanisms of Type-I Collagen quality control and assembly

Name ▼	Home institute	Group leader	Host institute	Project
Simone **Giaveri**	Swiss Federal Institute of Technology | Lausanne, Switzerland	Tobias J. Erb	MPI für terrestrische Mikrobiologie | Marburg, Germany	A self-regenerating metabolic and genetic linked in vitro network
Amir **Giladi**	Weizmann Institute of Science | Rehovot, Israel	Alexander van Oudenaarden	Hubrecht Institute | Utrecht, Netherlands	Elucidating epithelial-immune crosstalk in single cell resolution using 3D organoid systems
Victor **Girard**	École Normale Supérieure | Lyon, France	Alex Gould	Francis Crick Institute | London, United Kingdom	Roles of lipid catabolism in neural stem cells
Estibaliz **Gómez De Mariscal**	Universidad Carlos III de Madrid | Madrid, Spain	Ricardo Henriques	Instituto Gulbenkian de Ciência | Oeiras, Portugal	A transformative data-driven live-cell super-resolution microscopy development to elucidate the initial steps of effective viral transmission
Elisa **Gómez Gil**	Universidad | Murcia, Spain	Snezhana Oliferenko	King's College | London, United Kingdom	Deciphering the regulatory network behind unusual lipids in eukaryotes: hopanoids and their functional impact on cellular and organismal physiology
Miguel Angel **Gonzalez Lozano**	University | Amsterdam, Netherlands	J. Wade Harper	Harvard Medical School | Boston, United States	The endosomal map: from resolving the sorting machinery to understanding protein processing in Alzheimer's disease
Andriy **Goychuk**	Ludwig-Maximilians-Universität | München, Germany	Arup Chakraborty	Broad Institute of MIT and Harvard | Cambridge, United States	Active polymer dynamics of chromatin
Amalie **Grenov**	Weizmann Institute of Science | Rehovot, Israel	Carola Vinuesa	Francis Crick Institute | London, United Kingdom	Identification of the cellular origin of self-reactive antibodies in autoimmune disease
Rokas **Grigaitis**	University | Vienna, Austria	Patrick Pausch	Vilnius University, Lithuania	Discovering novel biotechnological tools from jumbo phages through high-throughput in vitro biochemistry
Jonathan **Gropp**	Weizmann Institute of Science | Rehovot, Israel	Dipti Nayak	University of California | Berkeley, United States	Understanding molecular controls on methane production from methylated substrates using the isotopic composition of methane
Matteo **Guardamagna**	Radboud University | Nijmegen, Netherlands	May-Britt Moser	Norwegian University of Science & Technology (NTNU) | Trondheim, Norway	Development of neural population activity in grid cells
Jan Niklas **Hansen**	Universität Bonn, Germany	Emma Lundberg	University | Stanford, United States	Revealing the mechanisms and functions of primary cilia in human development
Ella **Hartenian**	University of California | Berkeley, United States	Petr Broz	University of Lausanne | Epalinges, Switzerland	Discovery of novel players in inflammasome-mediated viral sensing
Lia **Heinemann Yerushalmi**	Weizmann Institute of Science | Rehovot, Israel	Carl-Philipp Heisenberg	Institute of Science and Technology Austria (IST) | Klosterneuburg, Austria	Metabolic regulation of cell cleavages in early embryogenesis
Daniel **Heinzer**	University of Zurich, Switzerland	Anne Brunet	Stanford University, United States	Establishing the African turquoise killifish as a model to investigate conserved age-dependent protein aggregation
Xavier **Hernandez Alias**	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Danny Nedialkova	MPI für Biochemie | Martinsried, Germany	Regulation of mRNA translation by protein-metabolite interactions
Alvaro **Herrero-Navarro**	Instituto de Neurociencias | Alicante, Spain	Botond Roska	Institute of Molecular and Clinical Ophthalmology | Basel, Switzerland	Deciphering the role of microglia in regulating photoreceptor degeneration in human retinal organoids
Veronika **Horkova**	Institute of Molecular Genetics of the ASCR | Prague, Czech Republic	Dirk Brenner	Luxembourg Centre for Systems Biomedicine (LCSB) | Esch-sur-Alzette, Luxembourg	Deciphering the function of mitochondrial pyruvate transport in T Cell-Mediated Immunity
Harry **Horsnell**	University College London, United Kingdom	Scott Mueller	University of Melbourne, Australia	Biochemical, neural and mechanical crosstalk between cancer metastasis and lymph node immuno-fibroblasts

Name ▼	Home institute	Group leader	Host institute	Project
Sebastian **Igelmann**	McGill University | Montreal, Canada	Sarah-Maria Fendt	KU Leuven | Leuven, Belgium	The role of senescent-associated metabolic changes in liver metastasis
Florian **Ingelfinger**	University of Zurich, Switzerland	Ido Amit	Weizmann Institute of Science | Rehovot, Israel	Spatio-temporal dynamics of immune circuitry in glioblastoma: from single cells to comprehensive models of tumor niches
Ali **Isbilir**	Max-Delbrück-Centrum | Berlin, Germany	Linda Johansson	University of Gothenburg | Göteborg, Sweden	Revealing the druggable potential of DARC for novel antimalarials: a structural biology approach
Md Rezaul **Islam**	German Center for Neurodegenerative Diseases | Goettingen, Germany	Li-Huei Tsai	Massachusetts Institute of Technology (MIT) | Cambridge (MA), United States	Astrocytic regulation of neuronal circuits in health and Alzheimer's Disease
Julie **Jacquemyn**	KU Leuven | Leuven, Belgium	Maria S. Ioannou	University of Alberta | Edmonton, Canada	Investigating the role of lipid alterations in Parkinson's Disease
Marc-Antoine **Jacques**	University | Bern, Switzerland	John Marioni	University of Cambridge, United Kingdom	Inferring unobservable developmental trajectories by leveraging single-cell multi-omics across multiple species
Katarzyna **Jonak**	MPI für Biochemie | Martinsried, Germany	Ulrike Topf	Institute of Biochemistry and Biophysics | PAS, Poland	Analysis of protein synthesis regulation by oxidation of ribosomal proteins during aging
Nebojsa **Jukic**	Weill Cornell Medical College | New York, United States	Kristina Ganzinger	AMOLF - Institute for Atomic and Molecular Physics | Amsterdam, Netherlands	Mapping the spatiotemporal organization and force dependence of gammadelta T-cell synapses
Hanna **Karvonen**	University | Tampere, Finland	Neil Vasan	Columbia University | New York, United States	Functional interrogation of kinase catalytic inhibition using kinome-wide base editing screens
Rahel **Kästli**	University of Zurich, Switzerland	Paola Arlotta	Harvard University | Cambridge, United States	Investigating circuit-level effects of autism spectrum disorder risk genes in human brain organoids
Janine **Kemming**	Universität Freiburg, Germany	Sine Reker Hadrup	Technical University of Denmark | Lyngby, Denmark	Immunological mechanisms behind rheumatological adverse events induced by immune checkpoint inhibitors
Silas **Kieser**	University of Geneva, Switzerland	Eran Elinav	Deutsches Krebsforschungszentrum (DKFZ) | Heidelberg, Germany	Elucidating the role of the vaginal microbiome for cervical cancer prevention
Leo **Kiss**	Max Planck Institut for Biochemistry | Planegg, Germany	Brenda A. Schulman	MPI für Biochemie | Martinsried, Germany	UbiDeCode: Ubiquitin Degradation Code
Larissa **Krüger**	Universität | Göttingen, Germany	Malcolm F. White	University | St Andrews, United Kingdom	Successful anti-phage defence: Regulation of CBASS
Andreas **Küffner**	ETH Zurich, Switzerland	Tobias J. Erb	MPI für terrestrische Mikrobiologie | Marburg, Germany	Engineering new-to-nature pyrenoids to compare carbon-concentrating mechanisms and improve photosynthesis
Els **Kuiper**	University | Groningen, Netherlands	Christian Schlieker	Yale University | New Haven, United States	Unraveling key mechanisms of nuclear pore complex biogenesis
Shira **Landau**	Technion | Haifa, Israel	Milica Radisic	University of Toronto, Canada	Investigating the crosstalk between cardiomyocytes, fibroblasts, endothelial cells and resident macrophage within vascularized cardiac organ-on-a-chip platforms
Elodie **Leroy**	Institut Européen de Chimie et Biologie (IECB) | Pessac, France	Ana Casañal	Human Technopole | Milano, Italy	Molecular basis for specific tRNA and mRNA modifications by human 5-methylcytosines (m5C) methyltransferases
Katrin **Linda**	Radboud University | Nijmegen, Netherlands	Patrik Verstreken	KU Leuven | Leuven, Belgium	Sharing is caring – Examine how astrocytes support neuronal autophagy

Name ▼	Home institute	Group leader	Host institute	Project
Miriam **Lisci**	University of Cambridge, United Kingdom	Alexis Andre Jourdain	University | Lausanne, Switzerland	Discovering nutrients and metabolic programs mediating adaptation and competition between cancer and immune cells in nutrient-depleted environments
Leonardo **Lupori**	Scuola Normale Superiore | Pisa, Italy	Georg Keller	Friedrich Miescher Institute | Basel, Switzerland	The functional signatures of antipsychotic drugs in the cerebral cortex: effects and mechanisms
Jack **Major**	Francis Crick Institute | London, United Kingdom	Ivaylo Ivanov	Columbia University | New York, United States	The prospect of microbiota-induced immune memory
Lucia **Malone**	University of Otago | Dunedin, New Zealand	Stan Brouns	University of Technology | Delft, Netherlands	Unraveling QatABCD, a novel bacterial defence system that provides broad and strong anti-phage protection
Hadar **Manis Levy**	Hebrew University | Jerusalem, Israel	Elisabetta Collini	Università di Padova, Italy	Is protein folding driven by the chiral induced spin selectivity (CISS) effect?
Guy **Mann**	Technion | Haifa, Israel	Kai Johnsson	MPI für medizinische Forschung | Heidelberg, Germany	Split HaloTag7 system for drug discovery
Ambra **Masuzzo**	Institut de Biologie du Developpment de Marseille (IBDM) | Marseille, France	Richard Benton	University | Lausanne, Switzerland	Analysis of multitrophic interactions in an ecological specialist
Ellen **McMullen**	University of Münster, Germany	Tomas Dolezal	University of South Bohemia | Ceske Budejovice, Czech Republic	Immune system vs. Brain: Do metabolic privileges change upon infection?
Zohar **Meir**	Weizmann Institute of Science | Rehovot, Israel	Liam Dolan	Gregor Mendel Institute of Molecular Plant Biology | Vienna, Austria	Discovering the mechanism of de novo meristem formation in plants
Zeno **Messi**	Swiss Federal Institute of Technology | Lausanne, Switzerland	Nathan Goehring	Francis Crick Institute | London, United Kingdom	Uncovering the design principles for asymmetric segregation of molecules by actomyosin cortical flow in polarized cells
Aviv **Mizrahi-Kliger**	Hebrew University | Jerusalem, Israel	Karunesh Ganguly	University of California San Francisco, United States	Elucidating the role of sleep spindles in the consolidation of motor memories
Marta **Montero Crespo**	Centro de Investigacion Biomedica - Enfermedades Neurodegenerativas | Madrid, Spain	Paola Arlotta	Harvard University | Cambridge, United States	Ultrastructural study of synaptic circuit formation in the developing brain using human brain organoids
Yitzhak **Norman**	Weizmann Institute of Science | Rehovot, Israel	Edward Chang	University of California | San Francisco, United States	Uncovering the functional architecture of the human speech cortex Using ECOG and 7T-fMRI
Pedro **Ortega Moreno**	CABIMER | Sevilla, Spain	Rémi Buisson	University of California | Irvine, United States	Mechanism for viral inhibition by APOBEC3B
Umberto **Palatini**	Università | Pavia, Italy	Leslie Vosshall	Rockefeller University | New York, United States	Hijacking mosquitoes: how arboviruses manipulate vector behaviour
Myrto **Panopoulou**	Universität | Göttingen, Germany	Peter Scheiffele	Biozentrum | University of Basel, Switzerland	Cellular and circuit underpinnings of social and maternal behaviours
Vasileios **Papadogiannis**	IMBB - FORTH | Heraklion, Greece	Manuel Irimia	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Evolution of novel contacts in orthologous regulatory elements
Fabian **Passini**	ETH Zurich, Switzerland	Elazar Zelzer	Weizmann Institute of Science | Rehovot, Israel	Investigating the role of proprioception in musculoskeletal diseases using a novel functional imaging approach
Lucas León **Peralta Ogorek**	University | Copenhagen, Denmark	Bipin Kumar Pandey	University | Leicester, United Kingdom	Uncovering how the gaseous signal ethylene is made, mobilized and mediates stress responses in plant tissues
Lorena **Perez-Gutierrez**	William Harvey Research Institute | London, United Kingdom	Napoleone Ferrara	University of California San Diego | La Jolla, United States	Establishment of the mitogenic potential of oncostatin M and other IL6 family members on endothelial cells: therapeutic implications for age-related macular degeneration

Name ▼	Home institute	Group leader	Host institute	Project
Luigi **Petrucco**	Technische Universität | München, Germany	Giuliano Iurilli	Istituto Italiano di Tecnologia | Rovereto, Italy	Central control of respiration through the parabrachial nucleus
Roman **Podolec**	University of Geneva, Switzerland	Mary Gehring	Whitehead Institute | Cambridge, United States	Towards apomictic seed production in plants – engineering autonomous endosperm development
Anna **Popczyk**	University | Wroclaw, Poland	Malte Gather	University of Cologne, Germany	Brain activity sensing by intracellular lasers
Yoav **Printz**	Weizmann Institute of Science | Rehovot, Israel	Cornelia Bargmann	Rockefeller University | New York, United States	Mechanisms of behavioral adaptation through directed evolution of behavior
Emeline **Recazens**	INSERM Institute of Cardiovascular and Metabolic Diseases (I2MC) | Toulouse, France	Alexis Andre Jourdain	University | Lausanne, Switzerland	Assembling intra-mitochondrial structures: nucleoids and mitochondrial RNA granules
Christopher Dieter **Reinkemeier**	Johannes-Gutenberg-Universität | Mainz, Germany	Randall J. Platt	ETH Zurich | Basel, Switzerland	Synthetic condensates to interrogate and customize gene editing outcomes
Lara **Rheinemann**	University of Utah | Salt Lake City, United States	Andreas Pichlmair	Technische Universität | München, Germany	Multi-level functional analysis of Bunyavirales-host interactions
Sandra **Rodríguez López**	University | Córdoba, Spain	Johan Auwerx	Le Centre hospitalier universitaire vaudois (CHUV) | Lausanne, Switzerland	Characterization of sexual dimorphism in mitochondrial function and mitophagy during Alzheimer's disease
Mélanie **Rogier**	Institute of Genetics and Molecular and Cellular Biology (IGBMC) | Illkirch, France	Roger Geiger	Institute for Research in Biomedicine | Bellinzona, Switzerland	Identification of new factors promoting B cell-mediated suppression of T cells in tumors
Florian **Roisné-Hamelin**	CEA IRCM | Fontenay aux Roses, France	Stephan Gruber	University | Lausanne, Switzerland	Investigating the molecular mechanism of extrachromosomal DNA restriction by SMC complexes
Axel **Rosendahl Huber**	Princess Maxima Center for Pediatric | Utrecht, Netherlands	Núria López-Bigas	Institute for Research in Biomedicine | Barcelona, Spain	Mutation risk assessments: Determining the mutation risks conferred by mutagenic processes
Matteo **Rossi**	Ludwig-Maximilians-Universität | München, Germany	Daniel Kronauer	Rockefeller University | New York, United States	Ant aggregation pheromones: from social behavior to neural coding
Andrew **Russell**	Wellcome Sanger Institute | Cambridge, United Kingdom	Fei Chen	Massachusetts Institute of Technology, United States	Pioneering spatially-resolved single-cell genomics technologies to understand tissue aging
Luigi **Russo**	EMBL | Heidelberg, Germany	Velia Siciliano	Istituto Italiano Di Tecnologia | Napoli, Italy	From worst enemy to best buddy: targeting tumor-associated macrophages for enhanced anti-tumoral activity in solid tumors
Jorune **Sakalauskaite**	University | Copenhagen, Denmark	Virginijus Šikšnys	Vilnius University, Lithuania	Shell Archaeochrome
Clàudia **Salat Canela**	Universitat Pompeu Fabra | Barcelona, Spain	Aleksandar Vjestica	University | Lausanne, Switzerland	Exploring a signaling hub during zygotic development in fission yeast
Hanna **Salmonowicz**	Mayo Clinic | Rochester, United States	Karolina Szczepanowska	International Institute Molecular Mechanisms & Machines PAS | Warsaw, Poland	Dynamics of the OXPHOS system in cellular senescence
Antonella **Santoro**	University of Cambridge, United Kingdom	Raffaella Di Micco	San Raffaele Institute | Milano, Italy	Harnessing senescence-primed immune effects to eradicate laeukemia and overcome resistance to therapy
Ioannis **Sarropoulos**	Universität | Heidelberg, Germany	Sarah A. Teichmann	Wellcome Sanger Institute | Cambridge, United Kingdom	Decoding the gene regulatory networks driving human T cell development
Harriet **Saunders**	University of Wisconsin | Madison, United States	Anna Akhmanova	Utrecht University, Netherlands	In vitro reconstitution of the protein complex controlling ciliary tip dynamics
Rico **Schieweck**	Ludwig-Maximilians-Universität (LMU) | Martinsried, Germany	Gabriella Viero	Fondazione Bruno Kessler | Trento, Italy	A combined role of m6A readers and SMN in defining ribosome heterogeneity

Name ▼	Home institute	Group leader	Host institute	Project
Claudia **Schmidt**	Max Planck Institute for Multidisciplinary Sciences | Göttingen, Germany	Matthias Peter	ETH Zurich, Switzerland	Molecular mechanisms regulating reversible protein aggregation and formation of physiological amyloid-like structures in mammalian cells
Max-Hinderk **Schuler**	University of Utah | Salt Lake City, United States	Lucas Jae	Ludwig-Maximilians-Universität | München, Germany	Dissection of mitofusin 2 regulatory networks through genome-wide genetics
Alfredo **Sciortino**	Technical University of Munich | Garching, Germany	Manuel Théry	Saint-Louis Research Institute | Paris, France	In vitro reconstitution of the sharp positioning transition of the centrosome
Marta **Seczynska**	University of Cambridge, United Kingdom	Lars Steinmetz	University | Stanford, United States	Functional dissection of tissue-specific control of mRNA isoform expression by RNA-binding proteins
Anis **Senoussi**	École Supérieure de Physique et de Chimie Industrielles (ESPCI) | Paris, France	Jan Philipp Junker	Max-Delbrück-Centrum | Berlin, Germany	Revealing plasticity of developmental cell fate decisions by single-cell RNA labeling
Shayan **Shami Pour**	Institute of Science and Technology Austria (IST) | Klosterneuburg, Austria	Lucas Pelkmans	University of Zurich, Switzerland	Mechanisms underlying symmetry breaking in embryonic development
Haran **Shani Narkiss**	Hebrew University | Jerusalem, Israel	Tiago Branco	Sainsbury Wellcome Centre for Neural Circuits and Behaviour | London, United Kingdom	Using Deep Neural Networks to investigate the generation of defensive behaviour in the midbrain
Liron **Sheintuch**	Weizmann Institute of Science | Rehovot, Israel	Peyman Golshani	University of California | Los Angeles, United States	Studying the role of synaptic connectivity in learning and memory using novel voltage imaging techniques in behaving animals
Roberto **Silva-Rojas**	Institute of Genetics and Molecular and Cellular Biology (IGBMC) | Illkirch, France	Jorge Alegre-Cebollada	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Examining titin mechanosensing and mechanical role in skeletal muscle using specific titin mechanical loss-of-function (mLOF)
Thomas **Steinacker**	University of Oxford, United Kingdom	Daniel W. Gerlich	IMBA | Vienna, Austria	Revealing the architecture of replicated human chromosomes by sister-chromatid-sensitive fluorescence in situ hybridisation
Eva Viola **Suranyi**	University of Technology and Economics | Budapest, Hungary	Scott Keeney	Sloan Kettering Institute | New York, United States	Investigation of mouse meiotic DSB formation via SPO11-oligo sequencing and biochemical characterization of SPO11 complexes
Julian **Swatler**	Nencki Institute | Warsaw, Poland	Enrico Lugli	Istituto Clinico Humanitas | Rozzano, Italy	Molecular mechanisms preventing Foxp3+ regulatory T cells from undergoing exhaustion in the tumor microenvironment
Bora **Taştan**	Biomedicine and Genome Center | Izmir, Türkiye	Michael Heneka	University | Luxembourg, Luxembourg	The NLRP3 inflammasome in the development and progression of tau pathology
Justin **Tauber**	University and Research | Wageningen, Netherlands	Lakshminarayanan Mahadevan	Harvard University | Cambridge, United States	Connecting branch structure and morphogenesis through the morphospace
Sarah **Triclin**	CEA Grenoble Center | Grenoble, France	Liz Miller	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Mechanisms of coat assembly to drive formation from the endoplasmic reticulum
Giulio **Valperga**	Institute of Science and Technology Austria (IST) | Klosterneuburg, Austria	Oliver Hobert	Columbia University | New York, United States	Effects of early life adversity on the adult brain of Caenorhabditis elegans
Lieke **Van De Haar**	University Medical Centre (UMC) | Utrecht, Netherlands	Nikolaus Rajewsky	Max-Delbrück-Centrum | Berlin, Germany	Studying melanoma initiation on a single-cell and spatial level
Sanne **Van Neerven**	University | Amsterdam, Netherlands	Benjamin D. Simons	University of Cambridge, United Kingdom	The role of injury-induced cellular reprogramming in driving intestinal tumourigenesis

Name ▼	Home institute	Group leader	Host institute	Project
Gregoire **Vernaz**	University of Cambridge, United Kingdom	Walter Salzburger	University of Basel, Switzerland	The mobilome of explosive diversification – the contribution of transposable elements in fuelling a massive adaptive radiation in cichlid fishes
Sören **Von Bülow**	MPI für Biophysik | Frankfurt, Germany	Kresten Lindorff-Larsen	University | Copenhagen, Denmark	Biophysical origins of epistatic drifts
Philipp **Walch**	EMBL | Heidelberg, Germany	Petr Broz	University of Lausanne | Epalinges, Switzerland	Dissecting the impact of enteric viral-bacterial co-infection on the host innate immune response and its implications for pathogenicity
Joseph **Watson**	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	David A. Baker	University of Washington | Seattle, United States	RoseTTAFold 'Inpainting' for De Novo Protein Design
Jan **Watteyne**	KU Leuven | Leuven, Belgium	William Schafer	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Decoding serotonergic signaling in the C. elegans nervous system
Valentin **Wernet**	Institute of Technology | Karlsruhe, Germany	Samara Reck-Peterson	University of California San Diego | La Jolla, United States	Intracellular trafficking in secondary metabolite production in filamentous fungi
David **Wiener**	Weizmann Institute of Science | Rehovot, Israel	Elizabeth Virginia Armbrust	University of Washington | Seattle, United States	From cultures to natural populations: Characterization of phytoplankton translational landscape
Katharina **Woess**	University of Veterinary Medicine | Vienna, Austria	Direna Alonso Curbelo	Institute for Research in Biomedicine | Barcelona, Spain	Functional dissection of inflammatory sensing networks in pancreatic cancer
Madita **Wolter**	University of Technology | Eindhoven, Netherlands	Sonja Lorenz	Max Planck Institute for Multidisciplinary Sciences | Göttingen, Germany	Specificity and substrate recognition of HECT E3 ligases using HACE1/RAC1 as a model system
Eden **Yifrach**	Weizmann Institute of Science | Rehovot, Israel	Sebastian Lourido	Whitehead Institute | Cambridge, United States	Systematic characterization of phylum-specific fitness-conferring genes in Toxoplasma gondii
Duygu **Yilmaz**	Université de Strasbourg | Illkirch, France	Eva R. Hoffmann	University | Copenhagen, Denmark	Role of chromatin organization in oocyte aging and aneuploidy
Shimon **Yudovich**	Bar-Ilan University | Ramat Gan, Israel	Ehud Isacoff	University of California | Berkeley, United States	Single-molecule studies of conformational dynamics and activation pathways of metabotropic glutamate receptors
Nico **Zaghet**	University | Copenhagen, Denmark	Déborah Bourc'his	Institut Curie | Paris, France	Dissecting the role of m6A RNA methylation on endogenous retrovirus regulation and fate
Markéta **Žlebková**	Massey University | Auckland, New Zealand	Honour McCann	MPI for Biology Mutualisms Research Group | Tübingen, Germany	Plant-pathogen coevolutionary and co-transcriptomic interactions in the wild Actinidia populations

EMBO Postdoctoral Fellowships awarded in 2022

Nationals of EMBC Associate Member States or Co-operation Partner States

Name ▼	Home institute	Group leader	Host institute	Project
Mohammad **Afsar**	University of Texas | San Antonio, United States	Albert Weixlbaumer	Institute of Genetics and Molecular and Cellular Biology (IGBMC) | Illkirch, France	Structural and functional characterization of transcript-assisted DNA strand break repair
Salar **Ahmed**	Université Laval | Québec, Canada	Ian D. Hickson	University | Copenhagen, Denmark	Targeting aneuploidy as a novel antitumor strategy
Srinivas **Allanki**	Max-Planck-Institut für Herz- und Lungenforschung | Bad Nauheim, Germany	Erik Sahai	Francis Crick Institute | London, United Kingdom	Investigating the cell-matrix mechano-chemical feedback loops that orchestrate tissue bistability
Shaunak **Burse**	CSIR - Institute of Genomics and Integrative Biology | New Delhi, India	Dónal O'Carroll	University of Edinburgh, United Kingdom	Understanding the role of MORC1 in germline de novo DNA methylation and transposon silencing
Sneha **Mishra**	Indian Institute of Science | Bangalore, India	Torben Heick Jensen	Aarhus University, Denmark	Controlling pervasive transcription
Deep **Prakash**	Indian Institute of Science | Bangalore, India	Maria Doitsidou	University of Edinburgh, United Kingdom	Understanding the molecular mechanisms of Bacillus subtilis induced protection against alpha-synuclein pathology
Amrita **Singh**	Center for Molecular Biology of Inflammation (ZMBE) | Münster, Germany	Anna Kicheva	Institute of Science and Technology Austria (IST) | Klosterneuburg, Austria	The role of mechanosensitive feedback on the regulation of tissue growth in the developing neural tube
Abhishek **Sirohiwal**	Max-Planck-Institut für Kohlenforschung | Mülheim an der Ruhr, Germany	Ville Kaila	Stockholm University, Sweden	Deciphering cross-talk between biological catalysis and functional dynamics in the complex I family

EMBO Postdoctoral Fellowships awarded in 2022

Nationals of other countries

Name ▼	Home institute	Group leader	Host institute	Project
Moamen **Abdelkareem**	Strasbourg | Institute of Genetics and Molecular and Cellular Biology, France	Nenad Ban	ETH Zurich, Switzerland	The mechanism of IRE1-mediated unfolded protein response and its interplay with protein-targeting ribosomal complexes
Virginia **Andrade**	Institut Pasteur | Paris, France	Katharina Sonnen	Hubrecht Institute | Utrecht, Netherlands	Mechanochemical signalling guiding morphogenesis during embryonic development
Evgenii **Baulin**	Institute of Fundamental Problems in Biology (IBBP) | Pushchino, Russian Federation	Janusz M. Bujnicki	International Institute of Molecular and Cell Biology | Warsaw, Poland	Exploring RNA folds and remote evolutionary relationships with an improved structural similarity search method
Kasit **Chatsirisupachai**	Institute of Aging and Chronic Disease | Liverpool, United Kingdom	Arnaud Krebs	EMBL | Heidelberg, Germany	Investigating the function of transcription factors cooperativity in regulating transcriptional burst kinetics
Iulia **Darolti**	University of British Columbia | Vancouver, Canada	Tanja Schwander	University | Lausanne, Switzerland	The role of alternative splicing in phenotype optimization
Ana Belén **De Landeta**	University of Buenos Aires, Argentina	Cliff Kentros	Norwegian University of Science & Technology (NTNU) | Trondheim, Norway	Contribution of the communication between reelin-positive neurons in the layer II of the medial entorhinal cortex and the hippocampus for episodic-like memory formation and retrieval
Jennah **Dharamshi**	Stockholm University, Sweden	Iñaki Ruiz Trillo	Institute of Evolutionary Biology (IEB) | Barcelona, Spain	The role of microbial interaction in the emergence of animals
André **Dias**	Instituto Gulbenkian de Ciência | Oeiras, Portugal	Alfonso Martinez Arias	Universitat Pompeu Fabra | Barcelona, Spain	Wnt/b-catenin mediated coordination of cell fate decisions during mammalian gastrulation
Anqi **Dong**	Hong Kong University, Hong Kong	Cédric Blanpain	Université Libre de Bruxelles | Brussels, Belgium	Unraveling the cellular crosstalk in the skin tumor ecosystem
Emanuell **Duarte Ribeiro**	University | Oklahoma, United States	Walter Salzburger	University of Basel, Switzerland	The genomic basis of the fusiform body-plan in fast-swimming cichlid fishes
Chee Kiang **Ewe**	University of California | Santa Barbara, United States	Oded Rechavi	Tel Aviv University, Israel	Interrogating the mechanistic basis for non-genetic inheritance
Guadalupe **Fernandez-Milmanda**	University of Buenos Aires, Argentina	Alain Goossens	VIB Center for Plant Systems Biology | Ghent, Belgium	Phosphorylation events in jasmonic acid signaling shape plant defenses
Joana **Ferreira Da Silva**	CeMM | Vienna, Austria	Benjamin Kleinstiver	Massachusetts General Hospital | Boston, United States	To expand or to contract: New approaches to investigate and remediate pathogenic DNA repeats
Ayelen Ivana **Groisman**	Fundación Instituto Leloir | Buenos Aires, Argentina	Johannes Letzkus	Universität Freiburg, Germany	Cortical mechanisms of naturalistic threat perception
Andres **Guillen Samander**	Yale University | New Haven, United States	Tobias Spielmann	Bernhard-Nocht-Institut fuer Tropenmedizin | Hamburg, Germany	Defining lipid transfer mechanisms at membrane contact sites important for P. falciparum blood stage biology
Naoya **Hino**	Kyoto University, Japan	Carl-Philipp Heisenberg	Institute of Science and Technology Austria (IST) | Klosterneuburg, Austria	Mechanosensitive signaling activation in the crosstalk between mechanical force and tissue fluidity
Hongmiao **Hu**	CAS Center for Excellence in Molecular Plant Science | Shanghai, China	Kelly Nguyen	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Structural studies of S.cerevisiae telomerase holoenzyme
Kijun **Kim**	Seoul National University, Republic of Korea	Chirlmin Joo	University of Technology | Delft, Netherlands	How does the CRISPR-guided Caspase complex find a protein target?

Name ▼	Home institute	Group leader	Host institute	Project
Oksana **Koshla**	Lviv Ivan Franko National University, Ukraine	Julia Johanna Griese	Uppsala University, Sweden	Iron sensing in antibiotic-producing actinomycetes: establishing peculiarities and biological function of the transcriptional regulator IdeR
Fitore **Kusari**	Institute of Molecular Genetics of the ASCR | Prague, Czech Republic	Melina Schuh	Max Planck Institute for Multidisciplinary Sciences | Göttingen, Germany	In vivo imaging of ovulation in mice
Xueyan **Li**	Chinese Academy of Sciences | Beijing, China	Venki Ramakrishnan	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Molecular basis of protein import into mitochondria by the translocases TOM and TIM23
Chong **Liu**	Chinese Academy of Sciences | Beijing, China	Andrea Ablasser	Swiss Federal Institute of Technology | Lausanne, Switzerland	Exploring the regulation of DNA-induced innate immunity
Xiaozheng **Liu**	University | Bergen, Norway	Sarah-Maria Fendt	KU Leuven | Leuven, Belgium	Exploring the metabolic evolution of breast cancer metastasis to predict metastases at early stage
Zhaowei **Liu**	University of Basel, Switzerland	Nynke H. Dekker	University of Technology | Delft, Netherlands	Unravelling the dynamics of histone transfer and replisome progression in eukaryotic DNA replication using single-molecule studies
Susana **Machado**	Universidade do Algarve | Faro, Portugal	Zuzana Keckesova	Institute of Organic Chemistry and Biochemistry AS CR | Prague, Czech Republic	Unravelling the molecular mechanisms regulating LACTB tumour suppressor activity
Vedrana **Markovic**	Institute of Experimental Botany (IEB) | Prague, Czech Republic	Yvon Jaillais	École Normale Supérieure | Lyon, France	Understanding the mechanisms of phosphoinositide synthesis at the nanoscale in Arabidopsis thaliana
Marie Paul Audrey **Mayi**	OCEAC | Yaounde, Cameroon	Guido Favia	Università | Camerino, Italy	The contribution of mosquito microbiota to insecticide resistance in major malaria vectors in Cameroon
Lucas **Meirelles**	California Institute of Technology | Pasadena, United States	Alexandre Persat	Swiss Federal Institute of Technology | Lausanne, Switzerland	Investigating how Pseudomonas aeruginosa regulates the airway environment to promote infection and antibiotic tolerance
Sean **Montgomery**	Gregor Mendel Institute of Molecular Plant Biology | Vienna, Austria	Arnau Sebe-Pedros	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Reconstructing the origin and functional diversification of eukaryotic heterochromatin
Catarina **Nunes**	Instituto Gulbenkian de Ciência | Oeiras, Portugal	Marc Dionne	MRC National Institute for Medical Research | London, United Kingdom	Endocrine regulation of metabolism during immune responses in Drosophila melanogaster
Goncalo **Oliveira**	Medical University of Vienna, Austria	Hana Hanzlíková	Institute of Molecular Genetics of the ASCR | Prague, Czech Republic	The source of neurological pathology in PNKP-mutated disease
Esteban **Orellana**	University of Buenos Aires, Argentina	Laura Treu	Università di Padova, Italy	BIologically-mediated CO_2 CAptuRe for medium-term storage into FUelS – ICARUS
Tomas **Pachano**	University of Cologne, Germany	Alexander Stark	IMP | Vienna, Austria	High-throughput identification of proteins that insulate enhancer-gene communication
Haohong **Pei**	Freie Universität | Berlin, Germany	Nenad Ban	ETH Zurich, Switzerland	Investigating the structural basis of co-translational synthesis of collagen
Jasper **Phelps**	Harvard Medical School | Boston, United States	Pavan Ramdya	Swiss Federal Institute of Technology | Lausanne, Switzerland	Reverse engineering limb motor control in Drosophila
Amber **Rolland**	University of Oregon | Eugene, United States	Albert J.R. Heck	Utrecht University, Netherlands	Mass spectrometry-based approaches to profile and sequence immunoglobulin clonal repertoires from human plasma and milk samples
Andra-Octavia **Roman**	University | Lausanne, Switzerland	Tonni Grube Andersen	MPI for Plant Breeding | Köln, Germany	High resolution spatial analysis of metabolic mechanisms involved in establishment of the root microbiome

Name ▼	Home institute	Group leader	Host institute	Project
Ingrid **Rosenburg Cordeiro**	Tokyo Institute of Technology | Yokohama, Japan	Andras Simon	Karolinska Institutet | Stockholm, Sweden	Investigation of long-term regenerative capacity of the newt limbs through DNA barcoding and single cell transcriptomics
Hannah **Rutledge**	University of California San Diego | La Jolla, United States	Karl Duderstadt	Max Planck Institut for Biochemistry | Planegg, Germany	Determining the structural basis of DNA replication-coupled histone deposition by histone chaperone CAF-1
Nuno **Santos**	Instituto Gulbenkian de Ciência | Oeiras, Portugal	David Bauer	The Francis Crick Institute | London, United Kingdom	Molecular mechanisms of SARS-CoV-2 recombination
Koichi **Sasaki**	Osaka University, Japan	Jun Ishihara	Imperial College | London, United Kingdom	CAR-TEx Delivery: Precision delivery and retention of cancer immunotherapy in tumor extracellular matrix by engineered T cells
Tomás **Silva**	University of Lisbon, Portugal	Giovanni Bussi	International School for Advanced Studies | Trieste, Italy	Coupling CpHMD with metadynamics to study pH-dependent effects in nucleic acids
Grigory **Tagiltsev**	Cornell University | New York, United States	John Briggs	MPI für Biochemie | Martinsried, Germany	The mechanism of COPI coat maturation
Catherine **Tait**	Colorado State University | Fort Collins, United States	Mathieu Lihoreau	Université Paul Sabatier | Toulouse, France	Testing the Predictive Adaptive Response at the individual and collective level using bees
Ryosuke **Tanaka**	Yale University | New Haven, United States	Ruben Portugues	Technische Universität | München, Germany	Behavioral functions and microcircuit mechanisms of heading direction representation in larval zebrafish
Idálio **Viegas**	Instituto de Medicina Molecular | Lisboa, Portugal	João De Magalhães	University of Birmingham, United Kingdom	Untangling the relationship between growth regulation and aging with a multimodal approach
Huping **Wang**	MPI für Biochemie | Martinsried, Germany	Ramanujan S. Hegde	MRC Laboratory of Molecular Biology | Cambridge, United Kingdom	Mechanisms of multipass membrane protein biogenesis
Jiawei **Wang**	Monash University | Clayton, Australia	John C. Marioni	European Bioinformatics Institute | Hinxton | Cambridge, United Kingdom	Spatiotemporal analysis of mammalian embryonic development at single-cell level
Haohao **Wu**	Karolinska Institutet | Stockholm, Sweden	Silvia Arber	University of Basel, Switzerland	Molecular dissection of brainstem motor circuits
Brooke **Zanco**	Monash University | Melbourne, Australia	Jon Bridle	University College London, United Kingdom	Does mum always know best? How will the rapid evolution of biotic interactions in response to climate change affect offspring fitness and behaviour in future environments?

EMBO Scientific Exchange Grants

Applications and awards 2018–2022

Country *(refers to home institute)*	Applications (total)	%	Awards (total)	%	Success rate (%)
Austria	57	2.3	33	2.2	57.9
Belgium	52	2.1	33	2.2	63.5
Croatia	18	0.7	15	1.0	83.3
Czech Republic	45	1.8	28	1.9	62.2
Denmark	57	2.3	39	2.6	68.4
Estonia	3	0.1	2	0.1	66.7
Finland	16	0.6	12	0.8	75.0
France	69	2.8	48	3.3	69.6
Germany	101	4.1	68	4.6	67.3
Greece	41	1.7	31	2.1	75.6
Hungary	25	1.0	15	1.0	60.0
Iceland	0	0.0	0	0.0	0.0
India	189	7.6	93	6.3	49.2
Ireland	22	0.9	14	1.0	63.6
Israel	40	1.6	26	1.8	65.0
Italy	249	10.0	142	9.6	57.0
Lithuania	3	0.1	1	0.1	33.3
Luxembourg	2	0.1	0	0.0	0.0
Malta	1	0.0	1	0.1	100.0
Montenegro	2	0.1	2	0.1	100.0
Netherlands	82	3.3	54	3.7	65.9
Norway	11	0.4	9	0.6	81.8
Poland	86	3.5	57	3.9	66.3
Portugal	79	3.2	46	3.1	58.2
Singapore	3	0.1	3	0.2	100.0
Slovak Republic	3	0.1	3	0.2	100.0
Slovenia	7	0.3	4	0.3	57.1
Spain	889	35.8	519	35.2	58.4
Sweden	25	1.0	17	1.2	68.0
Switzerland	29	1.2	19	1.3	65.5
Türkiye	72	2.9	43	2.9	59.7
United Kingdom	111	4.5	78	5.3	70.3
United States / Canada	7	0.3	0	0.0	0.0
EMBL	2	0.1	1	0.1	50.0
Others	86	3.5	17	1.2	21.3
Total	2484		1473		59.3

Year	Applications (total)	Awards (total)	Success rate (%)
2022	664	381	57.4
2021	344	202	58.7
2020	324	206	63.6
2019	554	347	62.6
2018	598	337	56.4

Please note that EMBO Scientific Exchange Grants were formerly called EMBO Short-Term Fellowships.

EMBL (all sites) are not counted towards the country the respective site is located in.

As of 2017 EMBO only funds applicants from EMBC Member States, EMBC Associate Member States and EMBC/EMBO co-operation partners.

Contact:
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Programme Head
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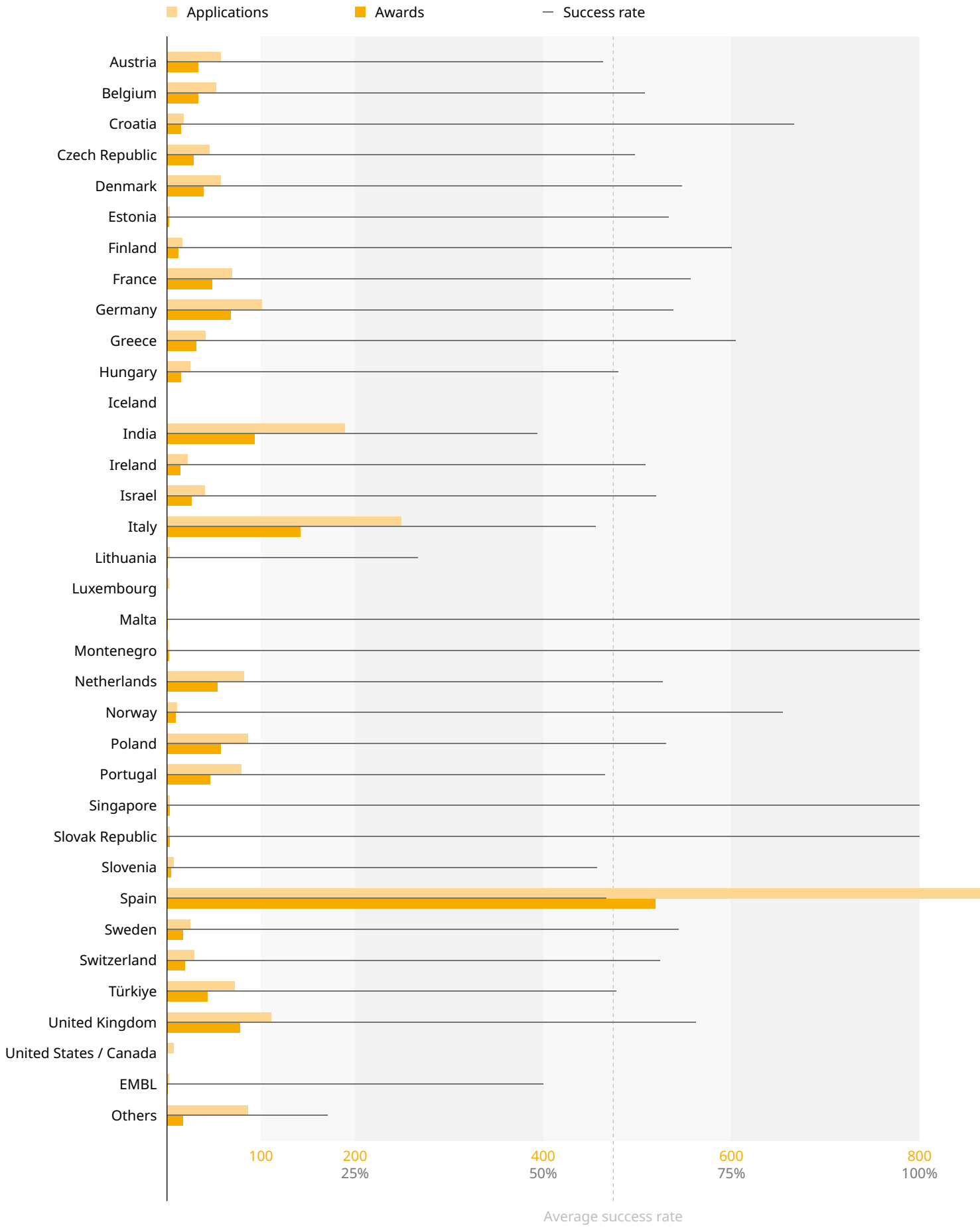
Applications and awards 2018 – 2022
(graphical representation)



Geographical distribution 2022

To \ From *(refers to home institute)*	Austria	Belgium	Croatia	Czech Republic	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Iceland	India	Ireland	Israel	Italy	Lithuania	Luxembourg	Malta	Montenegro	Netherlands	Norway	Poland	Portugal	Singapore	Slovak Republic	Slovenia	Spain	Sweden	Switzerland	Türkiye	United Kingdom	USA / Canada	EMBL *	Others	Total
Austria			1 1											1	1								1 1					7 4							1 1	12 7
Belgium	1 1				3 2											2 1					1			1				10 8			2 2					20 14
Croatia																																				
Czech Republic			1 1						1					2 2		1															1 1					6 4
Denmark	1 1			1			1 1	1							1	1						1 1	1 1					8 5		1 1		3 1			1	21 11
Estonia																																				
Finland	1								1 1							1 1												4 3							1 1	8 6
France		3 2			2 2				3 3	2 2	1 1		8 4		2 1	7 5					3 1		2 1	4 3				29 15	1 1	1	1 1				2	71 42
Germany	2 2	1	1 1		3 2		1 1	3 2		1 1	1		5 3	1 1	3 3	12 5					1 1		4 2	2 1				36 20		1 1	1 1	1 1			1	81 48
Greece																												1 1								1 1
Hungary																																				
Iceland																												1								1
India																																			1	1
Ireland																												6 2								6 2
Israel	1 1			1 1					1															2 1				1 1								6 4
Italy									1 1				1										2 2	2 2				23 14			2 1	2			3	36 20
Lithuania																																				
Luxembourg	1 1																											1 1								2 2
Malta																																				
Montenegro																																				
Netherlands		2			2 2	1 1			1 1	1		1 1			2 1	1 1	6 2						1 1	2 1				13 5		1	3 3	2 1				39 20
Norway	1								1							1 1					1							1 1			1					6 2
Poland	1								1																			1 1								3 1
Portugal	1		1 1										1 1			1							1 1					7 2			1 1	1			1	15 6
Singapore								1 1	1				1 1																							3 2
Slovak Republic																																				
Slovenia									1																											
Spain	1 1	1		1	2 1			2 2	2 1	2 2			3 1			6 2	1					1 1	3	3 3			1 1			1	2			5 1	37 16
Sweden	3 2	1			1			1 1		2 2	1		2 2	2 2		3 2					1 1		1 1					22 12			3 2	3 1				46 28
Switzerland	1	1 1		1 1	1			3 1	4 4		1 1		1			5 5					1 1		2 1					14 9				2 2				37 26
Türkiye																																				
United Kingdom	2	2 1	1	3 3	3 3		2 2	5 4	6 5	3 3	1 1		10 5			8 6					4 3	1 1	7 5	6 3				50 34	1		3 2				2 1	120 82
USA / Canada	3 1				1 1			1 1	1				1		1	5 3					2 1	1						30 14		1		2 2			2	51 23
EMBL[1]	1 1												1		1 1	1								1 1				5 3		1 1		1 1				12 8
Others	1							3 1	1 1	1 1			3 1			2					1 1							6			2 1	2				22 6
Total	22 11	11 4	5 4	9 7	17 12		4 4	21 14	26 16	11 11	6 4		37 18	8 6	10 6	62 33	1				15 9	4 3	25 16	23 15			1 1	276 155	2 1	6 3	21 15	21 9			20 4	664 381

applications top / btm awards

1 EMBL (all sites) are not counted towards the country the respective site is located in.

EMBO Scientific Exchange Grants awarded in 2022

Name ▼	Home institute	Group leader	Host institute	Project
Amir **Abdo**	National University of Ireland | Galway, Ireland	Lasse Jensen	Linköping University, Sweden	A hydrogel system for modulation of angiogenesis through nitric oxide scavenging in a tumour microenvironment
Kevin **Aguilar Ludwig**	Universitat Autònoma de Barcelona | Cerdanyola, Spain	Anu Suomalainen-Wartiovaara	University of Helsinki, Finland	Integrated stress response as a possible component of the pathology of the animal model of Leigh syndrome, Ndufs4 KO
Irati **Aiestaran Zelaia**	CIC nanoGUNE | Donostia, Spain	Antonella Spinazzola	University College London, United Kingdom	Characterising and combating mitochondrial dysfunction in aging
Bengü **Aktaş**	Bogazici University | Istanbul, Türkiye	Paul Wieringa	University | Maastricht, Netherlands	3D neural culture models for monitoring implant performances
María Pía **Alberione**	Institute for Global Health | Barcelona, Spain	Dominique Soldati-Favre	University of Geneva, Switzerland	Metabolomic study of Plasmodium falciparum and Toxoplasma gondii mutants
Sergio **Alcon**	University | Oviedo, Spain	Clementine Le Magnen	Universitätsspital | Basel, Switzerland	Learning to establish tumoral prostatic organoids to study redox signalling in cancer progression
Adrianna **Aleksandrowicz**	University of Environmental and Life Sciences | Wrocław, Poland	Teresa Thurston	Imperial College | London, United Kingdom	Novel role of sanA in Salmonella pathogenicity
Ana **Álvarez**	Institute for Subtropical and Mediterranean Horticulture | Algarrobo, Spain	Antoine Loquet	Institut Européen de Chimie et Biologie (IECB) | Pessac, France	Structural characterization of a biofilm-specific protein in the human pathogen Bacillus cereus
Andrea **Álvarez Vázquez**	Universidad de Salamanca, Spain	Justin Lathia	Lerner Research Institute | Cleveland, United States	Effect of the anti-tumor peptide TAT-Cx43266-283 in a glioblastoma preclinical model of resection
Shubhankar **Ambike**	Technische Universität | München, Germany	Laura Pallett	University College London, United Kingdom	Understanding the role of immunosuppressive TGFß-1 on HBV-specific T cell effector function in ex vivo models
Sara **Andjus**	Institut Curie | Paris, France	Francesc Posas	Universitat Pompeu Fabra | Barcelona, Spain	Heterogeneity of sense/antisense lncRNA expression & interaction at the single cell level in yeast
Aida **Andrades Valtueña**	MPI für evolutionäre Anthropologie | Leipzig, Germany	Nicolas Rascovan	Institut Pasteur | Paris, France	Developing a novel pangenomics framework that integrates ancient pathogen data
Alicja **Armatowska**	Institute of Biochemistry and Biophysics | PAS, Poland	David Tollervey	Wellcome Centre for Cell Biology | Edinburgh, United Kingdom	Analysis of the connection between Maf1, a negative regulator of RNA polymerase III, and translation in yeast by using ribosome profiling method
Laura **Arribas-Hernandez**	University | Copenhagen, Denmark	Ignacio Rubio Somoza	Centre for Research in Agricultural Genomics (CRAG) | Cerdanyola del Vallès, Spain	m6Archantia: Study of the m6A pathway in the model plant system Marchantia for a simplified genetic approach and evolutionary perspective.
Merve **Arslan**	Biomedicine and Genome Center | Izmir, Türkiye	Nico Callewaert	VIB-UGent Center for Medical Biotechnology (CMB) | Ghent, Belgium	Understanding the role of Vernier zone regions on antibody dual-specificity via directed evolution approaches
Josy **Augustine**	Queens University | Belfast, United Kingdom	Petr Baranov	Schepens Eye Research Institute | Boston, United States	Elucidating the role of heterogenous retinal ganglion cells in the pathogenesis of Diabetic Retinopathy
Beatriz **Aznar-Escolano**	Instituto de Neurociencias | San Juan de Alicante, Spain	Francesco Papaleo	Italian Institute of Technology | Genova, Italy	Exploring the role of basal oxytocin levels in modulating social behavior in mice
Sukesh Kumar **B**	Yenepoya Research Centre | Karnataka, India	Martin Welch	University of Cambridge, United Kingdom	A simple in vitro model to study the polymicrobial 'ecosystem' in diseased human airways, and its perturbation by quorum sensing inhibitors
Nibal **Badra**	University | Patras, Greece	Andrés Aguilera	CABIMER | Sevilla, Spain	The Fanconi Anemia pathway contributes to the survival of cells with DNA licensing aberrations

Name ▼	Home institute	Group leader	Host institute	Project
Samantha **Baldi**	University | Maastricht, Netherlands	Valerie Voon	University of Cambridge, United Kingdom	Disentangling common and unique contributions of depression and anxiety personality traits to emotional face processing: a UK Biobank study
Atanu **Banerjee**	Amity Institute of Biotechnology | Gurgaon, India	Lutz Schmitt	Heinrich Heine University | Düsseldorf, Germany	Purification, reconstitution, and functional characterization of the di/tripeptide transporter Ptr_C from the newly emerged fungal pathogen Candida auris
Deb Ranjan **Banerjee**	National Institute of Technology | Durgapur, India	Miquel Pons	Universitat de Barcelona | Barcelona, Spain	NMR studies of Lys/Arg side chain interactions in epigenetics and membrane-induced dimerization
Coral **Barcenilla**	Universidad | León, Spain	Paul Cotter	Moorepark Teagasc Food Research Centre | Cork, Ireland	Comprehensive survey of class I integrons present in complex microbial communities from meat industries using long read amplicon sequencing
Koyel **Bardhan**	University | Hyderabad, India	Ville Friman	University | York, United Kingdom	Insights into biocontrol efficacy of Silvimonas spp. against the phytopathogenic bacterium Ralstonia solanacearum
Catarina **Barros**	University of Lisbon, Portugal	David Otaegui Bichot	BioDonostia Health Research Institute | San Sebastian, Spain	eQTL in microRNA and circRNA in multiple sclerosis
Orhi **Barroso Gomila**	CIC bioGUNE | Derio, Spain	Simona Polo	Istituto FIRC | Milano, Italy	Identification of specific targets of ubiquitin E3 ligases using E3-ID
Nathalie **Bastié**	Centre de Biologie Integrative | Toulouse, France	Madhusudhan Srinivasan	University of Oxford, United Kingdom	Role of smc3 acetylation in DNA looping
Laura **Bayón Cordero**	Achucarro Basque Center for Neuroscience | Leioa, Spain	Goncalo Castelo-Branco	Karolinska Institutet | Solna, Sweden	Molecular mechanisms of oligodendroglial GABABR in multiple sclerosis
Gülberk **Bayraktar**	Aarhus University, Denmark	Valentin Nagerl	Interdisciplinary Institute for Neuroscience (IINS) | Bordeaux, France	Investigating the axon initial segment ultrastructure and its plasticity
Maria Cristina **Benedetti**	University of Rome 'Sapienza' | Rome, Italy	Ali Brivanlou	Rockefeller University | New York, United States	Generation and characterization of iPSC-derived neuruloids for modelling GNAO1 disease
Sara **Bertuzzi**	CIC bioGUNE | Derio, Spain	Hans Wandall	University | Copenhagen, Denmark	Unravelling galectin/glycan recognition at cell level employing genetically glycoengineered cell lines
Samujjal **Bhattacharjee**	Banaras Hindu University | Varanasi, India	Peter Bohzkov	Swedish University of Agricultural Sciences | Uppsala, Sweden	Structural studies of cyanobacterial orthocaspase MaOC from Microcystis aeruginosa
Arghya **Bhowmick**	Bose Institute | Kolkata, India	Sonja-Verena Albers	Universität Freiburg, Germany	An in-vivo approach to elucidate the molecular role of the VapBC5 Toxin-antitoxin in Sulfolobus acidocaldarius
Łukasz **Bijoch**	Nencki Institute | Warsaw, Poland	Armin Lak	University of Oxford, United Kingdom	Studying the neural circuitry of Central Amygdala during valence processing
Andrada-Maria **Birladeanu**	BSRC Alexander Fleming | Vari, Greece	Juan Valcárcel	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Exploring alternative splicing of a cell cycle regulon in gastric cancer
Félix **Blanc**	Institut Gustave Roussy | Villejuif, France	David Tan	National University Cancer Institute (NCIS) | Singapore, Singapore	PolARI
Maria Amparo **Blanch Ruiz**	University | Valencia, Spain	Cornelia Halin	ETH Zurich, Switzerland	Investigating the functional relevance of neutrophil extracellular traps on neutrophil entry into lymph nodes and their effects on adaptive immune response
Paz **Boix-Montesinos**	Centro de Investigacion Principe Felipe (CIPF) | Valencia, Spain	Alvaro Mata	University of Nottingham, United Kingdom	Development of peptide amphiphile-based three-dimensional breast cancer models that faithfully recapitulate the extracellular matrix

Name ▼	Home institute	Group leader	Host institute	Project
Daniele **Bonesso**	University | Padua, Italy	Jukka Kallijärvi	Folkhälsan Research Center | Helsinki, Finland	Testing the efficacy of redox cyclers in in vivo models of BCS1L-linked mitochondrial disease
Guillermo **Bordanaba**	CIC bioGUNE | Derio, Spain	Guillaume Van Niel	French Institute of Health and Medical Research (INSERM) | Paris, France	Extracellular vesicles as surrogated biomarkers of prostate cancer metabolism
Johanna **Bosch**	RWTH University | Aachen, Germany	Klaus Winzer	University of Nottingham, United Kingdom	Ecology and function of small SCIFF proteins in the gut microbiome
Mahima **Bose**	Tata Memorial Hospital | Mumbai, India	Boyan Bonev	Ludwig-Maximilians-Universität | München, Germany	Elucidating 3D genome dynamics mediated by LHX2:LDB1 in the developing mouse hippocampus
Tibor **Botka**	Masaryk University | Brno, Czech Republic	Ville Friman	University | York, United Kingdom	Interactions between therapeutic staphylococcal phages and their hosts in bacterial communities and consequences for phage-antibiotic synergy (PAS)
Hatim **Boughanem Lakhal**	Institute of Biomedical Research (IBIMA) | Malaga, Spain	Lee Parry	Cardiff University, United Kingdom	MBD2 and KAISO regulation as result to exposure of dietary factors in human normal and malignant intestinal organoids
Elif **Bozlak**	University of Veterinary Medicine | Vienna, Austria	Love Dalén	Stockholm University, Sweden	Resolving Proboscidean male-driven demography by analyzing Y chromosomal data
Sophie **Bromberger**	Medical University of Vienna, Austria	Martin Roessel Larsen	University of Southern Denmark | Odense, Denmark	Revealing off-target signaling pathways of cancer therapies with phosphoproteomics
Felix **Buchert**	Institute of Plant Biology and Biotechnology | Münster, Germany	Genji Kurisu	Osaka University, Japan	The dangling carotene in photosynthesis: a structural analysis of a Qi-site mutant in the algal cytochrome b6f complex
Ana **Butorac**	BICRO BioCenter | Zagreb, Croatia	Bruno José Fernandes Oliveira Manadas	Centre for Neuroscience and Cell Biology | Coimbra, Portugal	In vitro and in vivo model correlation for post-stroke biomarker discovery
Ane **Calvo**	Centro Nacional de Biotecnología (CNB) | Madrid, Spain	Henning Walczak	University of Cologne, Germany	The role of IRF9 transcription factor in programmed cell death
Diego **Calzada Fraile**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Giulia Pasqual	Università di Padova, Italy	Harnessing the LIPSTIC mouse model to study the relevance of post-synaptic dendritic cells in the generation of adaptive responses in vivo
Víctor **Campo Pérez**	University Autonomous of Barcelona | Bellaterra, Spain	Ulrich Theopold	Stockholm University, Sweden	Analyzing the antitumoral activity of Mycolicibacterium brumae in different Drosophila melanogaster cancer mutants
Catalina **Capó Serra**	Institute of Biomedicine and Biotechnology of Cantabria (IBBTEC) | Santander, Spain	Sara Zanivan	Beatson Institute for Cancer Research | Glasgow, United Kingdom	ASPA loss reprograms Cancer-Associated Fibroblasts metabolism to potentiate tumour progression
Jara **Cárcel Márquez**	Institut de Recerca de l'Hospital de la Santa Creu i Sant Pau | Barcelona, Spain	Giorgio Valentini	University of Milan | Milan, Italy	Machine learning methods for Stroke Polygenic Risk Scores
Ruggiero Pio **Cassatella**	KU Leuven | Leuven, Belgium	Markus Seeger	University of Zurich, Switzerland	Generation of chaperone-like Sybodies as original strategy to stabilize Gamma secretase APP interactions and promote the generation of shorter, non-amyloidogenic amyloid beta peptides
Janire **Castelo**	CIC bioGUNE | Derio, Spain	Mercedes Gomez De Agüero	Institute of Systems Immunology | Würzburg, Germany	Deciphering the role of phloroglucinol in long-term macrophage immunomodulation and colon tissue development
Alejandro **Castilla-Ibeas**	Institute of Biomedicine and Biotechnology of Cantabria (IBBTEC) | Santander, Spain	Can Aztekin	ISREC | Lausanne, Switzerland	Exploring the capabilities of Apical Ectodermal Ridge (AER) cells in mammalian regeneration

Name ▼	Home institute	Group leader	Host institute	Project
Águeda **Castro Quintas**	Universitat de Barcelona | Barcelona, Spain	Elisabeth Binder	Max Planck Institute of Psychiatry | München, Germany	Study of placental and cord blood epigenetic signatures as biomarkers of early life stress exposure in a cohort of pregnant women and their offspring
Laura **Catón Alcubierre**	University of Cambridge, United Kingdom	Raymond Staals	Wageningen University, Netherlands	CRISPR genome engineering in Flavobacterium IR1 structural colour
Emily **Cavill**	GLOBE Institute | Copenhagen, Denmark	Rob Ogden	University of Edinburgh, United Kingdom	Genetic assignment of illegally trafficked Seychelles Magpie Robins (Copsychus sechellarum) to their source populations
José **Cerca**	Norwegian University of Science & Technology (NTNU) | Trondheim, Norway	Brent Emerson	Institute of Natural Products and Agrobiology (IPNA) | La Laguna, Spain	Evolvability and Adaptability to climate change in Island Asteraceae adaptive radiations
Tatiana **Cereija**	Instituto de Investigação e Inovação em Saude (i3S) | Porto, Portugal	Cristina Paulino	University | Groningen, Netherlands	Mechanistic basis of c-di-AMP-mediated activation of the two-component K+/H+ antiporter KhtTU
Agit **Çetinkaya**	Technical University | Gebze, Türkiye	Erdinc Sezgin	Karolinska Institutet | Solna, Sweden	Characterization of nucleocytoplasmic translocation dynamics of CCDC124 using advanced super-resolution live cell imaging
Madhurima **Chattopadhyay**	University of Technology | Poznan, Poland	Erdinc Sezgin	Karolinska Institutet | Solna, Sweden	Elucidating the interplay between biological water and nanoscale lipid dynamics in cellular membranes
Daniele **Chirivì**	University of Milan | Milan, Italy	Cristina Ferrándiz Maestre	Instituto de Biología Molecular y Celular de Plantas | Valencia, Spain	Interactomic study of rice flowering through proximity labelling: proposal for mass spectrometry and interaction analyses
Jeongyoon **Choi**	University of Oxford, United Kingdom	Rainer Kaufmann	Centre for Structural Systems Biology (CSSB) | Hamburg, Germany	Direct visualization of X chromosome inactivation using cryogenic correlative single molecule localization light and electron microscopy
Camilla **Ciolli Mattioli**	Weizmann Institute of Science | Rehovot, Israel	Lars Steinmetz	EMBL | Heidelberg, Germany	All the needles in the haystack: high-speed fluorescence image-enabled cell sorting to study rare phenotypes in host-pathogen encounters
Mercedes **Clemente-Postigo**	Instituto Maimónides de Investigación Biomédica (IMIBIC) | Córdoba, Argentina	Kirsi Virtanen	PET Centre | Turku, Finland	Exploring the potential of brown adipose tissue-derived circulating miRNAs as biomarkers of tissue dysfunction and type 2 diabetes risk
Víctor **Coca Ruiz**	University | Cadiz, Spain	Jan A. L. Van Kan	Wageningen University, Netherlands	Secondary metabolites of the plant pathogenic fungus Botrytis cinerea: what else is out there?
Amit **Cohen**	Ben-Gurion University of the Negev | Beer-Sheva, Israel	Helle Ulrich	Institute of Molecular Biology (IMB) | Mainz, Germany	Real-time measurement of replication fork progression through site-specific DNA damage
Philippe **Colin**	INSERM Institute of Cardiovascular and Metabolic Diseases (I2MC) | Toulouse, France	Rogier W. Sanders	University Medical Centre (UMC) | Amsterdam, Netherlands	Functional selectivity of HIV-1 envelope glycoproteins (Env) – Molecular mechanisms and impact on the virus phenotypic properties
Miguel **Concha**	Universidad de Chile | Santiago, Chile	Verena Ruprecht	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Ex vivo approaches to epithelial to mesenchymal transition in zebrafish
Chiara **Conti**	University of Haifa | Haifa, Israel	Jana Milucka	Max-Planck-Institut für Marine Mikrobiologie | Bremen, Germany	investigating methane oxidation and production in marine sponges' symbionts
Lizbeth **Contreras**	Instituto De Investigación Marqués De Valdecilla | Santander, Spain	Anna Castro	Centre de Recherches de Biochimie Macro-moleculaire (CRBM) | Montpellier, France	Role of focal adhesion kinase during mitosis in Xenopus laevis eggs
James **Conway**	University | Turku, Finland	Simon Ameer-Beg	King's College | London, United Kingdom	Investigating the dynamics of integrin beta1 phosphorylation during breast cancer invasion

Name ▼	Home institute	Group leader	Host institute	Project
Gaël **Cordero**	Universitat Internacional de Catalunya | Barcelona, Spain	Katharina Von Kriegstein	Technische Universität | Dresden, Germany	Voice and speech brain regions interact during the perception of speech enunciated by a familiar voice
Marina **Cortijo Gutiérrez**	Center for Genomics and Oncology Research (GenyO) | Granada, Spain	Rasmus O. Bak	Aarhus University, Denmark	CRISPR-mediated targeting of IL15 to the PD1 locus to improve the phenotype of CD19 CAR T cells
Marta **Cozzi**	Università degli Studi | Milano, Italy	James Sleigh	University College London, United Kingdom	Investigating the impact of disease-associated KIF5A mutations on axonal transport
Maria **Crespo**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Peder Olofsson	Bioclinicum | Solna, Sweden	Neural regulation of Kupffer cells
Enrique **Crisman**	Instituto de Química Médica (IQM - CSIC) | Madrid, Spain	Mireille Rossel	Université | Montpellier, France	Development of NRF2 inducers and a7-nAChR modulators as novel multitarget compounds for the treatment of Alzheimer's disease: Evaluation in a zebrafish tauopathy model
Andrea **Curtabbi**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Karin Busch	University of Münster, Germany	ATP synthase oligomerization: where structure meets function
Giulia **D'Arrigo**	Istituto di Biofisica CNR | Milano, Italy	Francesca Peri	University of Zurich, Switzerland	Live tracking of extracellular vesicles in the nervous system of larval zebrafish
Giuditta **Dal Cortivo**	Università degli Studi | Verona, Italy	Knut Stieger	Justus-Liebig-Universität | Giessen, Germany	Organotypic culture of adult mouse retina to evaluate the therapeutic effects of liposomes in retinal dystrophies
Ondřej **Daněk**	University of Veterinary and Pharmaceutical Sciences | Brno, Czech Republic	Manuela Schnyder	University of Zurich, Switzerland	Molecular identification of taeniid tapeworms in grey wolves from Central Europe
Kuladeep **Das**	Jawaharial Nehru Centre for Advanced Scientific Research | Bengaluru, India	Jeyaprakash Arulanandam	University of Edinburgh, United Kingdom	Biochemical analysis of a conserved DSS motif of Dad2p in the integrity of Dam1 complex
Tanwee **Das De**	Indian Institute of Science Education and Research | Pune, India	Rickard Ignell	Swedish University of Agricultural Sciences (SLU) | Alnarp, Sweden	Investigating the role of Xenobiotic metabolizing enzymes in olfactory perception mechanism in Anopheles and Aedes mosquitoes through electroantennographic approach
Teresa **De Los Reyes**	Cajal Institute | Madrid, Spain	Chiara Zurzolo	Institut Pasteur | Paris, France	In vitro study of glioma-neuron intercellular communications
Pratima **Debnath**	Indian Institute of Toxicology Research (CSIR) | Lucknow, India	Laurent Nussaume	Institut de Biologie environnementale et de biotechnologie | Saint Paul Lez Durance, France	Development of a live sensor for inositol pyrophosphate
Guy **Decante**	Universidade do Minho | Braga, Portugal	Patrizia Ferretti	University College London, United Kingdom	Study of the cell and molecular interactions between human chondrogenic precursors and naturally-derived biomaterials in the context of nose and ear cartilage tissue engineering
Elba **Del Val**	Complutense University of Madrid (UCM) | Madrid, Spain	Marcus Taylor	MPI für Infektionsbiologie | Berlin, Germany	Spatiotemporal characterization of signaling through the IL-1R receptor
Filippo **Dell' Anno**	Stazione Zoologica 'Anton Dohrn' | Napoli, Italy	Jose Jimenez Zarco	Imperial College | London, United Kingdom	Bioengineering of the Antarctic strain Pseudomonas gessardi M15 for the development of a siderophore microbial cell factory
Giulia **Dematteis**	University of Eastern Piedmont | Novara, Italy	Fabio Cavaliere	University of the Basque Country | Leioa, Spain	Role of mitochondria-ER interaction in cellular disfunction of Parkinson's disease astrocytes

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Andrea **Dessen**	Institut de Biologie Structurale | Grenoble, France	Gabriel Waksman	Birkbeck | University of London, United Kingdom	Elucidating the protein-DNA transport mechanism of the F-plasmid Type IV secretion system
Mercedes **Dessy Rodriguez**	CIEMAT | Madrid, Spain	Giandomenico Turchiano	University College London, United Kingdom	Safety studies of gene editing for hemolytic anemias
Leonid **Digel**	Aarhus University, Denmark	Falk Harnisch	Hemholtz Centre for Environmental Research | Leipzig, Germany	Oxygen production by cable bacteria
Monika **Dolega**	Institute for Advanced Biosciences | La Tronche, France	Jerome Solon	Instituto Biofisika Institutoa | Leioa, Spain	Active torques in development
Inés **Domingo Ortí**	Centro de Investigacion Principe Felipe (CIPF) | Valencia, Spain	Nils Færgeman	University of Southern Denmark | Odense, Denmark	Mitochondrial metabolomics as a new screening method in the development of novel breast cancer therapies
Pere **Duart Abadia**	University | Valencia, Spain	Francisco Quintana	Harvard Medical School | Boston, United States	Study of neural stem cell quiescence regulation through physical interactions with unique microglial subsets
Nilüfer **Düz**	Hacettepe University | Ankara, Türkiye	Carlijn Bouten	University of Technology | Eindhoven, Netherlands	The effects of mechanical loading on nuclear localization of desmin protein
Merve **Erkisa Genel**	Istinye University | Istanbul, Türkiye	Sarah-Maria Fendt	KU Leuven | Leuven, Belgium	Targeting metabolic heterogeneity between prostate cancer and its microenvironment with EGFR-targeted metformin-loaded superparamagnetic iron oxide nanoparticles
Alba **Escalera Balsera**	Center for Genomics and Oncology Research (GenyO) | Granada, Spain	Nicola Whiffin	Wellcome Centre for Human Genetics | Oxford, United Kingdom	Contribution of regulatory variants in non-coding regions to tinnitus
Carmen **Escalona-Noguero**	Madrid Institute of Advanced Studies - IMDEA Food | Madrid, Spain	Maria Cristina Cardoso	Technische Universität | Darmstadt, Germany	Microscopic and functional characterization of CRISPR/Cas nucleases cellular internalization via cell penetrating peptides
Marina **Esteban-Medina**	Instituto de Biomedicina de Sevilla | Sevilla, Spain	Francesca Ciccarelli	King's College | London, United Kingdom	Pan-cancer therapeutic targets discovery using mechanistic models and machine learning at the single-patient resolution for tailored treatment prioritization
Felix **Evers**	Radboud University | Nijmegen, Netherlands	Alexey Amunts	Science for Life Laboratory | Solna, Sweden	Investigating protein complexes that govern de novo cristae biogenesis in malaria parasites
José Manuel **Ezquerra**	Universidad | Zaragoza, Spain	David Sherman	University of Washington | Seattle, United States	Study of the transcriptional response of Mycobacterium tuberculosis to avermectins treatment
Miguel **Ezquerro**	Centre for Research in Agricultural Genomics (CRAG) | Bellaterra, Spain	Harro J. Bouwmeester	University | Amsterdam, Netherlands	Identification of particular enzyme isoforms supplying metabolic substrates for carotenoid and strigolactone biosynthesis in tomato roots
Siebren **Faber**	Radboud University | Nijmegen, Netherlands	Paul Guichard	University of Geneva, Switzerland	Morphological characterization of the developing mammalian retina in health and disease by ultrastructure expansion microscopy
Michela Maria Eugenia **Falqui**	Universidad Autonoma | Madrid, Spain	Francis Impens	VIB-UGent Center for Medical Biotechnology (CMB) | Ghent, Belgium	The importance of being ISGylated
Lucia **Fanlo-Escudero**	Josep Carreras Leukaemia Research Institute (IJC) | Barcelona, Spain	Lisa Russell	Newcastle University, United Kingdom	Dynamic 3D chromatin organization in Human B-cell lymphopoiesis: description of novel genes associated with B-cell acute lymphoblastic leukaemia
Alba **Fernández**	Centre for Molecular Biology 'Severo Ochoa' | Madrid, Spain	Giovanni Marsicano	Neurocentre Magendie | Bordeaux, France	Role of PI3K catalytic isoforms in cerebral metabolism

Name ▼	Home institute	Group leader	Host institute	Project
Jose **Fernández**	Institute of Molecular Biology and Genetics IBGM (Instituto de Biología y Genética Molecular (IBGM)) | Valladolid, Spain	Adolfo García Sastre	Mount Sinai School of Medicine | New York, United States	Endoplasmic reticulum stress response a critical trigger of cytokine storm in COVID-19 disease
Marta **Fernandez Gatell**	Universitat Politecnica de Catalunya | Barcelona, Spain	Ana Galvão	Instituto Superior Técnico | Lisboa, Portugal	Towards the development of a new methodology for the determination of microbial kinetic parameters using the electric current produced by electroactive bacteria (ELECTROMICA)
Jorge **Ferreira**	Instituto de Medicina Molecular | Lisboa, Portugal	Zsolt Lenkei	Institute Psychiatry And Neuroscience | Paris, France	Unraveling the pharmacological determinants of the behavioral, molecular, synaptic and functional correlates of long-term psilocybin effects on mood
André **Ferreira Castro**	University of Cambridge, United Kingdom	Ashok Litwin-Kumar	Columbia University | New York, United States	A biophysical account of pattern separation in a memory and learning circuit
Patrícia **Figueiredo**	University of Lisbon, Portugal	Cesar Caballero-Gaudes	Basque Center on Cognition | Brain and Language, Spain	Disentangling neuronal from non-neuronal contributions to brain networks dynamics: a multimodal neuroimaging approach
Sergio **Filipe**	Universidade NOVA de Lisboa | Lisbon, Portugal	Ivo G. Boneca	Institut Pasteur | Paris, France	Characterization of the activity of peptidoglycan hydrolases from the bacterial pathogen Staphylococcus aureus
Kamil **Filipek**	Maria Curie-Sklowowska University | Lublin, Poland	Simon Bekker-Jensen	University | Copenhagen, Denmark	Phosphorylation of P-stalk proteins regulates ribosomal stress responses
Juan Bautista **Fontanet-Manzaneque**	Centre for Research in Agricultural Genomics (CRAG) | Cerdanyola del Vallès, Spain	Laurens Pauwels	VIB Center for Plant Systems Biology | Ghent, Belgium	Modulation of brassinosteroid signaling in Sorghum bicolor to confer drought resistance
Cristina **Fracassi**	San Raffaele Institute (HSR/TIGET) | Milano, Italy	Philippe Collas	University | Oslo, Norway	Dissecting the functional interaction between PML and lamins in the organization of chromatin domains
Gian Marco **Franceschini**	University | Trento, Italy	Giovanni Ciriello	University | Lausanne, Switzerland	Computational inference of large scale chromatin compartments from local epigenetic features
Raúl **Fuentes Martín**	Universidad de Salamanca, Spain	Pilar Ayuda Durán	Institute for Cancer Research | Oslo, Norway	Determination cytotoxic profile of antimitotic compounds and mechanism of action studies
Marina **Fuertes Agudo**	Instituto de Biomedicina de Valencia (IBV) | Valencia, Spain	Anne Dubart-Kupperschmitt	Hôpital Paul Brousse | Villejuif, France	iPSc-derived liver spheroids to test the therapeutical options of cyclooxygenase 2
Alberto **Furgoni**	Basque Center on Cognition | Brain and Language, Spain	Yury Shtyrov	Aarhus University, Denmark	MEGOCE – Time-course and brain correlates of consistency effects
Isabel **Fuster-Martínez**	University | Valencia, Spain	Sergio Rodriguez-Cuenca	University of Cambridge, United Kingdom	Study of the role of Fdft1 in adipogenesis and hepatic lipotoxicity
Estibaliz Gabicagogeascoa	Universidad Complutense de Madrid (UCM) | Madrid, Spain	Penny Lovat	Newcastle University, United Kingdom	AMBRA1 as tumour suppressor gene of cutaneous squamous cell carcinoma
Jesús **Galán Vidal**	Instituto De Investigación Marqués De Valdecilla | Santander, Spain	Helfrid Hochegger	MRC Genome Damage & Stability Centre | Brighton, United Kingdom	Study of the role of SUMO specific peptidase 2 (SENP2) in mitosis
Borja **Gallego**	Instituto de Investigación Sanitaria del Principado de Asturias | Oviedo, Spain	Benno Schwikowski	Institut Pasteur | Paris, France	Addressing drug resistance in sarcomas using patient-derived models
Hannah **Galloon**	University of Liverpool, United Kingdom	Andreas Hierlemann	ETH Zurich, Switzerland	Assessment of in vitro drug toxicity using gastruloids on an embryo-maternal co-culture platform

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Rafael **Galupa**	Centre de Biologie Integrative | Toulouse, France	Edda Schulz	Max Planck Institute for Molecular Genetics | Berlin, Germany	Identifying dosage-sensitive genes on the mouse X chromosome
Francesc **Ganau**	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Frédéric Austerlitz	Centre national de la recherche scientifique (CNRS) | Paris, France	Developing a new method using GWAS data to study positive selection on clinically relevant phenotypes
Concepción **Garces Díaz**	University | Valencia, Spain	Astrid Hagelkrüys	Austrian Academy of Sciences | Vienna, Austria	Effect of extracellular histones on survival and autophagy regulation in blood vessel organoids
Sara **García Dosil**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Alfredo Castello	University of Glasgow, United Kingdom	Deciphering ISG20L2 interactome
Beatriz **García Fontana**	Hospital Universitario Clínico San Ceclilio | Granada, Spain	Alessio Naccarati	Italian Institute for Genomic Medicine (IIGM) | Torino, Italy	Differential microbiome and miRNome associated to gastrointestinal and autoimmune disorders in patients with hipophosphatasia
Adrian **Garcia Moreno**	Center for Genomics and Oncology Research (GenyO) | Granada, Spain	Andre Gerber	School of Biosciences and Medicine | Guildford, United Kingdom	Functional characterization of regulatory networks via multi-omics integration
Marta **Garcia-Juan**	Centre for Molecular Biology 'Severo Ochoa' | Madrid, Spain	Maria Jimenez-Sanchez	King's College | London, United Kingdom	Analysis of the differential regulation of autophagy in neurons and glial cells, using organotypic brain slices
Sofía **Gardeta**	Centro Nacional de Biotecnología (CNB) | Madrid, Spain	Michael L. Dustin	University of Oxford, United Kingdom	Analysis of CXCR4 and ACKR3 dynamics in T cells
Elisa **Garrido Huescar**	Universidad | Zaragoza, Spain	Winnok De Vos	University | Antwerp, Belgium	Advanced phenotypical profiling of induced accelerated aging in mature human IPSC-derived cardiomyocytes
Maria D'Alaó **Gatius Puchercós**	Universitat de Lleida | Lleida, Spain	Thomas Gillingwater	University of Edinburgh, United Kingdom	Mechanisms underlying motor circuit pathology in X-linked infantile spinal muscular atrophy: effects of UBA1 deficiency on cholinergic C-type synapses on motor neurons
Konstantina **Georgelou**	IMBB - FORTH | Heraklion, Greece	Homaira Nawabi	Institute of Neuroscience | Grenoble, France	Deciphering neuroprotective mechanisms of small-molecule neurotrophin analogs using rodent adult retina explant culture model
Alessia **Geremia**	Università di Padova, Italy	Jorge Ruas	Karolinska Institutet | Stockholm, Sweden	Understanding muscle-tumor crosstalk in muscle-specific Akt overexpressing mice during cancer cachexia
Carlo **Giaccari**	University of Campania 'Luigi Vanvitelli' | Caserta, Italy	Gavin Kelsey	Babraham Institute | Cambridge, United Kingdom	Role of the maternal-effect gene Padi6 in the control of genomic imprinting
Karen **Giménez-Orenga**	Universidad Católica de Valencia San Vicente Mártir | Valencia, Spain	Enzo Tramontano	University of Cagliari | Cagliari, Italy	Participation of aberrantly expressed endogenous retrovirus in Myalgic Encephalomyelitis, Fibromyalgia and Long-COVID pathophysiology
Rafael Luis **Giner Arroyo**	Institute for Chemical Research (IIQ) | Sevilla, Spain	Michelangelo Campanella	University of London | London, United Kingdom	Understanding the role of nucleus-mitochondria contact sites in the nuclear translocation of cytochrome c
Federica **Giona**	Instituto de Neurociencias | Alicante, Spain	Julie Perroy	Institute of Functional Genomics (IGF) | Montpellier, France	Live-imaging approaches to investigate and modulate synaptic GIT1/mTORC1 protein synthesis
Joao **Gomes**	Universidade do Minho | Braga, Portugal	Andrew J. McMichael	John Radcliffe Hospital | Oxford, United Kingdom	TCR repertoire analysis of EBV-specific HLA-E-restricted CD8+ T-cells in multiple sclerosis
Almudena **Gómez Rojas**	University of Castilla-La Mancha | Ciudad Real, Spain	Tom Beeckman	Ghent University, Belgium	Root cells-specific responses leading to feeding site formation during the plant-nematode interaction by single cell RNA sequencing
Yaiza **Gómez-Mínguez**	Instituto de Biología Molecular y Celular de Plantas | Valencia, Spain	Cécile Bousquet-Antonelli	Université | Perpignan, France	Role of the RT2P/PFDL cochaperone complex in mRNA decapping and decay

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Lorene **Gonnin**	INRA | Jouy-en-Josas, France	Linda Sandblad	Umeå University, Sweden	Study of RSV nucleocapsid assembly in infected cells by cryo-electron tomography
Ceren Perihan **Gönül**	Biomedicine and Genome Center | Izmir, Türkiye	Dora Brites	University of Lisbon, Portugal	Dissecting the role of exosome-miRNAs in Alzheimer's disease pathology using advanced human neuron-microglia models
María **González Álamos**	Instituto de Biología Molecular de Barcelona (IBMB) | Barcelona, Spain	Philipp Sebastian Erdmann	Human Technopole | Milano, Italy	Deciphering the structural details of vault particles in human cells by cryo-ET
Álvaro **González Domínguez**	Fundación Cádiz Investigación Biomédica | Cádiz, Spain	Rikard Landberg	Chalmers University of Technology | Göteborg, Sweden	Metabolomics characterization of the influence of insulin resistance over erythroid metabolism in childhood obesity
Diego **González Romero**	Centro Nacional de Biotecnología (CNB) | Madrid, Spain	Doreen A. Cantrell	University of Dundee, United Kingdom	Role of p38gamma/deltaMAPKs in T cell function
Aitor **González Titos**	Universidad de Jaén | Jaén, Spain	Diethard Mattanovich	Institute of Microbiology and Microbial Biotechnology | Vienna, Austria	Pancreatic pro-enzyme production in Pichia pastoris
Soledad **Gonzalo Cogno**	Norwegian University of Science & Technology (NTNU) | Trondheim, Norway	Claudia Clopath	Imperial College | London, United Kingdom	Connectivity motifs underlying sequential firing (ConSeq)
Deborah **Grifagni**	University of Florence | Sesto Fiorentino, Italy	Marie-Pierre Golinelli	Université Paris-Saclay | Gif-sur-Yvette, France	Unravelling the physio-pathological role of CISD3 in human cells
Fabian **Groll**	MPI für Molekulare Biomedizin | Münster, Germany	Christina Ernst	Swiss Federal Institute of Technology | Lausanne, Switzerland	Identifying the RNA interactome of METTL3 in 2-cell like cells
Thomas Høgsbro **Grønbæk**	Aarhus University, Denmark	Felipe Karam Teixeira	University of Cambridge, United Kingdom	Spatiotemporal characterisation of the establishment and maintenance of heterochromatin at transposable element loci in the Drosophila female germline
Clara **Groot Crego**	University | Vienna, Austria	Hannes Svardal	University | Antwerp, Belgium	Towards understanding the role and patterns of gene flow in evolutionary radiations
Ying **Guan**	University of Copenhagen | Frederiksberg, Denmark	Paolina Garbeva	Nederlands Instituut voor Ecologie (NIOO-KNAW) | Wageningen, Netherlands	Revealing the role of the cyclic lipopeptide viscosin in plant-microbe interactions under drought stress
Camila **Gudenschwager**	Universidad de Chile | Santiago, Chile	Jerome Mertens	University | Innsbruck, Austria	The effect of tau mutation G389R in mitochondrial homeostasis in a human neuronal model
Natascia **Guida**	Università 'Federico II' | Napoli, Italy	Piera Smeriglio	Sorbonne University | Paris, France	Targeting the master neuronal epigenetic regulator REST as new pharmacological strategy for Amyotrophic Lateral Sclerosis
Aliye Ezgi **Güleç**	Middle East Technical University | Ankara, Türkiye	Nalan Liv	University Medical Centre (UMC) | Utrecht, Netherlands	Ultrastructural localization of mTOR in colon cancer cells with Correlative Light and Electron Microscopy
Fergal **Hamrock**	Trinity College | Dublin, Ireland	Alexander Westermann	Heimholz Institute for RNA-based Infection Reserach (HIRI) | Wurzburg, Germany	Investigating posttranscriptional regulation of environmental persistence and virulence in Acinetobacter baumannii
Alice **Hardman**	University of Birmingham, United Kingdom	Elin Norström	Stockholm University, Sweden	Palaeoecology of the Gideon Wetland, South Africa
Nicolás **Hauer**	Centre de Recerca Matemàtica | Bellaterra, Spain	Rosanne Rademaker	Ernst Strüngmann Institute for Neuroscience | Frankfurt, Germany	Does stable short term memory depend on multiple representations in the brain ?
Hannah **Heil**	Instituto Gulbenkian de Ciência | Oeiras, Portugal	Bassam Hajj	Institut Curie | Paris, France	Making Live-Cell 3D Super-Resolution Microscopy accessible

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Damien **Hermand**	University | Namur, Belgium	Antonin Morillon	Institut Curie | Paris, France	GERMCELL
Oscar **Herranz**	Cancer Research Center (CIC) | Salamanca, Spain	Hong Qian	Karolinska Institutet | Huddinge, Sweden	Role of Rap1 regulators, C3G and SIPA1, in the bone marrow niche: implications for recovery after chemotherapy
Eoin **Hever**	National University of Ireland | Galway, Ireland	Ulf Nilsson	Lund University, Sweden	Design and synthesis of novel constrained glycomimetics for galectins and galactosidases
Alberto **Hipólito**	Complutense University of Madrid (UCM) | Madrid, Spain	Bärbel Stecher-Letsch	Max von Pettenkofer Institute | München, Germany	Establishing the Evolutionary Forces that drive the success of integron resistance cassettes in clinical conditions
Laure **Ho**	University College London, United Kingdom	Gautam Dey	EMBL | Heidelberg, Germany	Using machine learning to predict nuclear division failure
Lydia **Horndler**	Centre for Molecular Biology 'Severo Ochoa' | Madrid, Spain	Susana Minguet	Universität Freiburg, Germany	Development and optimization of new immune receptors in cancer therapy
Sophie **Imhof**	Medical University of Vienna, Austria	Aaron Gitler	University | Stanford, United States	Genomic instability due to DPR toxicity in C9orf72-associated ALS
Jon **Iriarte**	Instituto de Diagnóstico Ambiental y Estudios del Agua - CSIC | Barcelona, Spain	Michael Zimmermann	EMBL | Heidelberg, Germany	Identification of metabolic pathways in marine bacterial isolates that degrade organophosphate esters, perfluoroalkyl substances and related emerging organic pollutants
Evin **Iscan**	Dokuz Eylul University | Izmir, Türkiye	Padraig D'Arcy	Linköping University, Sweden	Establishment of the zebrafish patient-derived tumour model for personalized medicine in leukaemia
Aitor **Jarit**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Christian Frezza	University of Cologne, Germany	Deciphering the role of mitochondrial metabolism in trained immunity
Selene **Jimenez**	Universidade | Santiago de Compostela, Spain	Alfredo Castello	University of Glasgow, United Kingdom	Dissecting the mechanistic and functional importance of RNA-binding proteins (RBPs) for malignant peripheral nerve sheath tumor growth and metastasis
Mohamed Amine **Jmel**	Biology Centre | Ceske Budejovice, Czech Republic	Ingrid Dijkgraaf	University | Maastricht, Netherlands	Hemostasis modulation by a tick salivary protein
María **Juárez-Fernández**	Instituto de Biomedicina (IBIOMED) | León, Spain	Fredrik Backhed	University of Gothenburg | Göteborg, Sweden	Investigating the effects of microbially produced imidazole propionate on liver metabolism
Tetiana **Kalachova**	Institute of Experimental Botany (IEB) | Prague, Czech Republic	Christine Faulkner	John Innes Centre | Norwich, United Kingdom	On the tight strings: actin cytoskeleton integrity in the function of plasmodesmata
Jovana **Kaljevic**	de Duve Institute | Brussels, Belgium	Tung Le	John Innes Centre | Norwich, United Kingdom	Biochemical characterisation of the ParB protein in Bdellovibrio bacteriovorus
Michael **Kaltenegger**	University | Graz, Austria	Robert Ernst	Universität des Saarlandes | Homburg, Germany	Expression and reconstitution of de novo designed bitopic peptides in lipid vesicles
Adrienn **Kelemen**	University | Debrecen, Hungary	Martine Pastuglia	Institut Jean-Pierre Bourgin | Versailles, France	The role of PP2A in the regulation of cell division
Ümit Yaşar **Kına**	Bezmialem Vakif University | Istanbul, Türkiye	Kai Matuschewski	Humboldt University | Berlin, Germany	Spatial-temporal connectivity of two endosymbiont organelles during life cycle progression of the malaria parasite
Anja **Konietzny**	Zentrum für Molekulare Neurobiologie (ZMNH) | Hamburg, Germany	Marie-Jo Moutin	Institute of Neuroscience | Grenoble, France	Unravelling the role of microtubule-de-tyrosination in the axonal transport and maturation of endo-lysosomes
Zhanat **Koshenov**	Medical University | Graz, Austria	Nikolaus Plesnila	Institute for Stroke and Dementia Research | Munich, Germany	Spatial Ca2+ regulation of neuronal metabolism and mitochondrial bioenergetics

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Mikaela **Koutrouli**	Novo Nordisk Foundation Center for Stem Cell Biology (DanStem) | Copenhagen, Denmark	Lennart Martens	Ghent University, Belgium	Large-scale proteomics-based functional association networks enabled by variational auto-encoders
Ketan **Kumar**	Central Univeristy of Rajasthan | Ajmer, India	Yvon Sterkers	Université | Montpellier, France	Quantification and functional expression of anti-apoptotic and pro-apoptotic proteins of Leishmania donovani for developing novel therapeutics
Michaela **Kunzova**	Biology Centre | Ceske Budejovice, Czech Republic	Richard Burchmore	University of Glasgow, United Kingdom	Implementing redox proteomics to identify redox regulated proteins during cellular differentiation of Trypanosoma brucei
Cemil **Kürekci**	Mustafa Kemal University | Hatay, Türkiye	Masaru Usui	Rakuno Gakuen University | Hokkaido, Japan	Exploring the animal waste resistome from dairy and beef production system in Turkey
Salla **Kyheröinen**	University of Helsinki, Finland	Matthias Geyer	Universität Bonn, Germany	Novel mechanisms of transcription regulation: the actin-P-TEFb interaction
Ifigeneia **Kyrkou**	Technical University of Denmark | Kongens Lyngby, Denmark	Rob Lavigne	KU Leuven | Leuven, Belgium	Investigating the direct effect of active prophages in the in-patient fitness of clinical P. aeruginosa isolates
Julien **Lambert**	Institute of Genetics and Molecular and Cellular Biology (IGBMC) | Illkirch, France	Julie Ahringer	Wellcome Trust / Cancer Research UK Gurdon Institute | Cambridge, United Kingdom	Unravelling the role of the Zn-finger protein LIN-15A during natural transdifferentiation in Caenorhabditis elegans with Chromatin Immunoprecipitation Sequencing
Jeppe **Larsen**	The Novo Nordisk Foundation Center for Basic Metabolic Research | København, Denmark	Matthias Mann	MPI für Biochemie | Martinsried, Germany	Investigation of a cell type specific muscle proteome in type 2 diabetes
Julia **Latowska-Łysiak**	Institute of Bioorganic Chemistry | Poznan, Poland	Irene Bozzoni	Università 'La Sapienza' | Roma, Italy	Determination of the role of selected circular RNAs in glioblastoma. Participation of RNA binding proteins in circRNA biogenesis and their potential impact on the altered circRNAs expression profile
William **Ledford**	Università | Torino, Italy	Ronelle Roth	University of Oxford, United Kingdom	Bridging the gap between cross kingdom RNAi and extracellular vesicles in the AM symbiosis
Paulina Maria **Lesiczka**	Czech University of Life Sciences (CZU) | Prague, Czech Republic	Hein Sprong	National Institute for Public Health and the Environment (RIVM) | Bilthoven, Netherlands	One or many: linking the transmission dynamics of Anaplasma phagocytophilum to pathogenicity by comparative genomics
Guy **Levin**	Technion | Haifa, Israel	Jan Schuller	Philipps-Universität Marburg, Germany	Cryo-EM analysis of unique PSII-LHCII structure
David **Linhardt**	Medical University of Vienna, Austria	Garikoitz Lerma-Usabiaga	Basque Center on Cognition | Brain and Language, Spain	Characterizing the relation between stimulus complexity and receptive field estimates
Julie **Lintz**	University of Lorraine | Nancy, France	Cyril Zipfel	University of Zurich, Switzerland	Functional characterization of the RALR-RISP receptor-ligand pairs in planta
Tejan **Lodhiya**	Indian Institute of Science Education and Research | Tirupati, India	Dany Beste	University | Surrey, United Kingdom	Stable isotope labelled mass spectrometry based metabolomics profiling of Mycobacteria in response to antibiotics
Georgia **Lokka**	University | Patras, Greece	Vito Mennella	University of Cambridge, United Kingdom	Investigate the role of GemC1 and McIdas in hybrid cilium formation
Imtiaz Nisar **Lone**	Biomedicine and Genome Center | Izmir, Türkiye	Irwin Davidson	Institute of Genetics and Molecular and Cellular Biology (IGBMC) | Illkirch, France	Linker histone H1 in health and Rahman syndrome
Irene **López Gutiérrez**	Universidad Complutense de Madrid (UCM) | Madrid, Spain	Renzo Mancuso	University | Antwerp, Belgium	Unraveling Noradrenaline regulation of human microglia using iPSC cell cultures and transcriptomic approaches

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Pablo **López Jiménez**	Universidad Autonoma | Madrid, Spain	Enrique Martinez Perez	MRC London Institute of Medical Sciences | London, United Kingdom	Effect of exogenous DSBs on meiotic progression in the C. elegans germline
Judith **López Luis**	Instituto de Biología Molecular y Celular del Cáncer (IBMCC) | Salamanca, Spain	Denis L.J. Lafontaine	Université Libre de Bruxelles | Gosselies, Belgium	Role of cytosine-5 methylation of ribosomal RNA in cell cycle control
Araceli **López Tejada**	Universidad | Granada, Spain	Giannino Del Sal	ICGEB | Trieste, Italy	Study of repurposed drugs based in the inhibition of NDRG1 in patient derived organoids for the treatment of breast cancer
Marta **López Yus**	Instituto Aragonés de Ciencias de la Salud | Zaragoza, Spain	Niklas Mejhert	Karolinska Institutet | Stockholm, Sweden	Application of precision medicine in adipose tissue for treatment of obesity-related disorders
Hèctor **López-Laguna**	Universitat Autònoma de Barcelona | Cerdanyola, Spain	Matthew Dalby	University of Glasgow, United Kingdom	Novel protein-based materials for efficient delivery of growth factors and mesenchymal stem cell immunomod-ulation
Nieves **Lopez-Pagan**	University of Malaga, Spain	Alma Dal Co	University | Lausanne, Switzerland	Applying microfluidics to analyse potential trade-offs between bacterial growth and expression of the T3SS and/or flagella in the plant pathogen Pseudomonas syringae
Katarzyna **Lorencik**	Jagiellonian University | Krakow, Poland	James Blaza	University | York, United Kingdom	Cryo-EM studies of ActA domain in alternative complex III
Mirela **Lozić**	University | Split, Croatia	Davor Lessel	University | Salzburg, Austria	Genetic drivers of congenital anomalies of the kidney and urinary tract
Claudia **Lubrano**	Forschungszentrum Jülich GmbH | Jülich, Germany	Róisín Owens	University of Cambridge, United Kingdom	Engineer native biomembranes with ion channels
Morghan **Lucas**	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Annalisa Marsico	Helmholtz Zentrum München | Neuherberg, Germany	Deciphering the mechanism of sncR-NA-mediated paternal inheritance of acquired metabolic disorders
Dorian **Luijkx**	University | Maastricht, Netherlands	Guo Ge	University of Exeter, United Kingdom	Stem cell-based modelling of early human embryogenesis in vitro
Agnieszka **Łupicka-Słowik**	University | Wroclaw, Poland	Federica Cossu	Università degli Studi | Milano, Italy	Structural insight into IAPs recognition by a potent phosphoroorganic Smac mimetic
Thomas **Luypaert**	Norwegian University of Life Sciences (UMB) | Ås, Norway	Kristine Bohmann	University | Copenhagen, Denmark	Rapid biodiversity appraisal of large rainforest vertebrates in Brazilian Amazonia: A comparative analysis of wildlife monitoring technologies
André **Luz**	University of Lisbon, Portugal	Edward Tate	Imperial College | London, United Kingdom	Target identification of a new promising necroptosis cell death inhibitor
Alice **Macchia**	CIC bioGUNE | Derio, Spain	Jose-Javier Bravo Cordero	Icahn School of Medicine at Mount Sinai | New York, United States	Analysis of the ECM composition and architecture in prostate cancer models
Jon **MacIcior**	Universidad Complutense de Madrid (UCM) | Madrid, Spain	Matthew Disney	Scripps Institute | Jupiter, United States	Development of progerin RNA-directed compounds for progeria treatment
Martina **MacIno**	Max-Delbrück-Centrum | Berlin, Germany	Francesca Antonacci	Universita | Bari, Italy	Structural variation of the human genome and its role in human infertility and multiple miscarriages
Corina T. **Madreiter-Sokolowski**	Medical University | Graz, Austria	Sabrina Buettner	Stockholm University, Sweden	Studying the impact of mitochondrial Ca2+ modulation on aging in yeast
Soulafa **Mamlouk**	Charité - Universi-tätsmedizin | Berlin, Germany	Alejandra Bruna	Institute of Cancer Research | London, United Kingdom	Evolution of therapy resistance in paediatric patient derived cancer organoids
Nilanshu **Manocha**	Amity Institute of Virology & Immunology | Noida, India	Jaqueline Marvel	Centre International de Recherche en Infectiologie | Lyon, France	Characterization of CD8 T-cells response to a peptide-immunogen against dengue virus

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Maria **Marchese**	IRCCS Fondazione Stella Maris | Calambrone, Italy	Stephan Neuhauss	University of Zurich, Switzerland	Discovering new insight on retinal defects in the cln5 zebrafish model using ERG recordings as tool
Ernesto **Marín Sedeño**	University of Malaga, Spain	Fabienne Lescroart	Aix-Marseille Université | Marseille, France	Understanding epicardial heterogeneity at single-cell resolution
María **Mariner-Faulí**	Institute of Biomedicine and Biotechnology of Cantabria (IBBTEC) | Santander, Spain	Kyung-Min Noh	EMBL | Heidelberg, Germany	Mechanistic characterization of ZIC2 function during anterior neural patterning
Giulia **Marotta**	European Institute of Oncology (IEO) | Milano, Italy	Gaetano Gargiulo	Max-Delbrück-Centrum | Berlin, Germany	Connecting LSD1 inhibition, ER-stress related apoptosis and metabolic rearrangements in glioblastoma tumor initiating cells
Patricia **Marqués**	Universidad Complutense de Madrid (UCM) | Madrid, Spain	Kirsty Spalding	Karolinska Institutet | Stockholm, Sweden	The pleiotropic role of the insulin receptor in human adipocytes
Sara **Martín**	Universidad Autonoma | Madrid, Spain	Lothar Schermelleh	University of Oxford, United Kingdom	Disentangling replication-transcription relationship: does speed matter?
José **Martín Gómez**	Centro Nacional de Biotecnología (CNB) | Madrid, Spain	Vasiliki Koliaraki	BSRC Alexander Fleming | Vari, Greece	Role of p38gamma and p38delta in intestinal fibroblasts in the connection between inflammation and colon cancer
Olga **Martínez Arroyo**	Instituto de Investigación Sanitaria (INCLIVA) | Valencia, Spain	Benedetta Bussolati	Università | Torino, Italy	Establishment of a 3D co-culture model of podocytes and endothelial renal cells in continuous perfusion to asses the role of Rab27a-Rab3a system in vesicular transport under diabetic conditions
Patricia **Martínez Botía**	Instituto de Investigación Sanitaria del Principado de Asturias | Oviedo, Spain	Markku Varjosalo	University of Helsinki, Finland	Characterization and integration of the signaling pathways of activated platelets under inflammatory conditions
Marina **Martínez Hernández**	Institut de Bioenginyeria de Catalunya (IBEC) | Barcelona, Spain	Cesare Terracciano	Imperial College | London, United Kingdom	Unraveling the regenerative potential of lactate for in situ cardiac tissue engineering therapies
Francesc **Martinez Trucharte**	Vall d'Hebron Institut de Recerca (VHIR) | Barcelona, Spain	Dan Peer	Tel Aviv University, Israel	Modulation in Cancer Stem Cells gene expression as a therapy for Ovarian Cancer
Gonzalo **Martinez-Navajas**	Universidad | Granada, Spain	Claudia Tersteeg	KU Leuven | Leuven, Belgium	Functional validation of Bernard-Soulier models treated with gene therapy tools
Alex **Martinez-Sabadell**	Institut Hospital del Mar d'Investigacions Mèdiques (IMIM) | Barcelona, Spain	Leo Kunz	Roche Glycart | Schlieren, Switzerland	Characterization of the immune synapse in acquired resistance to immunotherapy
Yentel **Mateo-Otero**	University | Girona, Spain	Shankar Srinivas	University of Oxford, United Kingdom	Molecular mechanisms underlying the cellular movements within the early mouse embryo during axis specification and gastrulation
Teresa **Mazzarella**	Università | Torino, Italy	Leonardo Perez De Souza	MPI für molekulare Pflanzenphysiologie | Potsdam-Golm, Germany	The role of zaxinone on the recruitment of rhizomicrobiota community
Sean **McKenna**	Trinity College | Dublin, Ireland	Sander Van Kasteren	Leiden University, Netherlands	Probing the proteasome: a photo-activatable affinity-based probe for profiling JAMM metalloprotease Rpn11
Encarnación **Medina Carmona**	Universidad | Granada, Spain	Jose Luis Ortega-Roldan	University of Kent | Canterbury, United Kingdom	Identification of key residues for CLIC1 membrane insertion and inhibition
Amalia **Megarioti**	National Center for Scientific Research 'Demokritos' | Athens, Greece	Florian Fröhlich	University | Osnabrück, Germany	Determination of peroxidised lipid species in quiescent cells of Saccharomyces cerevisiae
Divya **Mehta**	International Centre for Genetic Engineering | New Dehli, India	Alain Kohl	University of Glasgow, United Kingdom	Understanding the interplay between lncRNA and alphaviruses in mosquito derived cells

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Lieke **Michielsen**	University Medical Centre | Leiden, Netherlands	Hagen Tilgner	Weill Cornell Medical College | New York, United States	Unraveling alternative splicing mechanisms in the brain by applying deep learning to long-read single-cell data
Irene **Molina-De La Fuente**	Instituto de Salud Carlos III | Madrid, Spain	Khalid Beshir	London School of Hygiene and Tropical Medicine | London, United Kingdom	Application of innovative genomic and molecular epidemiology technology on malaria parasites implicated in diagnostic evasion
Zsofia **Molnar**	University of Technology and Economics | Budapest, Hungary	Marco W. Fraaije	University | Groningen, Netherlands	Investigation of the newly discovered fungal luciferase system
Ana **Monfort-Vengut**	Instituto de Investigaciones Biomédicas 'Alberto Sols'. IIBm (CSIC-UAM) | Madrid, Spain	Rocío Sotillo	Deutsches Krebsforschungszentrum (DKFZ) | Heidelberg, Germany	The WNK1 kinase modulates the cellular response to the multitarget cancer drug Rigosertib
Bryn **Monnery**	University Medical Center | Groningen, Netherlands	André Gröschel	University of Münster, Germany	Formation of responsive nanoclusters for the treatment of glioblastoma
Ana **Montero Calle**	Instituto de Salud Carlos III-ISCII | Majadahonda, Spain	Gunnar Dittmar	Luxembourg Institute of Health (LIH) | Strassen, Luxembourg	Targeted proteomics analysis of plasma samples from chronic diseases patients for the validation of dysregulated proteins as blood-based diagnostic biomarkers
Elena **Moreno-Jiménez**	Centre for Molecular Biology 'Severo Ochoa' | Madrid, Spain	Nicolas Toni	University | Lausanne, Switzerland	Inhibitory innervation of adult-born dentate granule cells
Elena **Mosca**	Medical University of Vienna, Austria	Jan Lagerwall	University | Luxembourg, Luxembourg	The lysosomal sequestration of Nintedanib leads to cancer resistance through the formation of uniquely fluorescent liquid crystals within lysosomal membranes
Lionel **Mourey**	Institut de Pharmacologie et de Biologie Structurale (IPBS), France	Ben Luisi	University of Cambridge, United Kingdom	Structural characterization of biological systems important for the physiology of the tubercle bacillus and tuberculosis transmission
Veronika **Mraz**	University | Copenhagen, Denmark	Dianne McKay	Scripps Institution of Oceanography | La Jolla, United States	Role of Coxsackie and adenovirus receptor CAR and junctional adhesion molecule JAML, and Plexin-B2 and CD100 interactions on epidermal T cells in allergic contact dermatitis
Amanda **Muñoz**	Institut de Ciencies de Materials de Barcelona (CSIC) | Barcelona, Spain	Buck Samuel	Baylor College of Medicine | Houston, United States	Effect of bacterial nanocellulose fibers in the host-microbiome interaction
Nancy **Murillo García**	Instituto De Investigación Marqués De Valdecilla | Santander, Spain	Thomas G. Schulze	Institute of Psychiatric Phenomics and Genomics (IPPG) | Munich, Germany	Towards the identification of biomarkers for schizophrenia spectrum disorders and cognitive deficits: the role of genetic susceptibility and miRNAs
Claire **Murphy**	Royal College of Surgeons in Ireland | Dublin, Ireland	Jan Zivny	Charles University in Prague | Prague, Czech Republic	EVENT Study: Extracellular vesicles in early preterm neonates and thrombin generation
Tiago **Nardi**	Università | Pavia, Italy	Simonetta Gribaldo	Institut Pasteur | Paris, France	Genomic and phylogenetic characterisation of the host-symbiont interface in the Rickettsiales
Dilara **Nemutlu Samur**	Alaaddin Keykubat Üniversitesi | Alanya, Türkiye	Andreas Prokop	University of Manchester, United Kingdom	The role of microtubule dynamics and mitochondrial biogenesis in rotenone-induced neurodegeneration
Guillermo **Nevot**	Parc de Recerca UAB | Barcelona, Spain	Ellen Van Den Bogaard	Centre for Molecular Life Sciences | Nijmegen, Netherlands	Development of a 3D skin platform for the development and characterization of engineered skin probiotics

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Elwira **Nieboga**	Jagiellonian University | Krakow, Poland	Susan Gibbs	Academic Center for Dentistry Amsterdam (Academisch Centrum Tandheelkunde Amsterdam) | Amsterdam, Netherlands	Establishment of a 3D organotypic gingiva model to study the interactions between oral pathogens and gingival fibroblasts in periodontitis
Elpiniki **Ninou**	Hellenic Pasteur Institute | Athens, Greece	Aleksandra Deczkowska	Institut Pasteur | Paris, France	Microglial signatures in mouse and human-based models of familial Parkinson's disease using single-cell transcriptomics
Iker **Nuñez Carpintero**	Barcelona Supercomputing Center (BSC) | Barcelona, Spain	Niko Beerenwinkel	ETH Zurich, Switzerland	Uncovering multi-omic hepatocellular carcinoma patient signatures through multilayer network community analysis
Emilio **Nuñez-Borque**	Instituto de Investigación Sanitaria | Madrid, Spain	Angela Di Giannatale	Bambino Gesù Children's Hospital (Ospedale Pediatrico Bambino Gesù) | Rome, Italy	Dissecting the potential role of miR-375 carried by extracellular vesicles in anaphylactic patients
Furkan Enes **Oflaz**	Medical University | Graz, Austria	Varda Shoshan Barmatz	Ben-Gurion University of the Negev | Beer-Sheva, Israel	The contribution of annexin V to mitochondrial Ca2+ uptake
Irene **Olaizola**	BioDonostia Health Research Institute | San Sebastian, Spain	Chiara Braconi	University of Glasgow, United Kingdom	Patient-derived organoids as a preclinical model to test a new family of platinum-derived chemotherapeutic agents
Miguel Ángel **Olivencia Plaza**	Universidad Complutense de Madrid (UCM) | Madrid, Spain	Giuseppe Cirino	Università 'Federico II' | Napoli, Italy	Regulation of the redox state of soluble guanylate cyclase by hydrogen sulfide and its impact on erectile dysfunction
Benjamí **Oller-Salvia**	Instituto Químico de Sarrià (IQS) | Barcelona, Spain	David A. Baker	University of Washington | Seattle, United States	Design of an orthogonal receptor to study transcytosis in the brain endothelium
Jon **Ondaro Ezkurra**	BioDonostia Health Research Institute | San Sebastian, Spain	Jerome Mertens	University | Innsbruck, Austria	Modulation of energy metabolism and cell recycle as fundament for therapeutic treatment of neurodegeneration due to Granulin inssufficiency
Pablo **Ortega Martinez**	Universidad | Sevilla, Spain	Yagut Allahverdiyeva-Rinne	University | Turku, Finland	The interconnection of glucose metabolism and glycogen storage in cyanobacteria
Rafael **Palos Fernández**	University | Córdoba, Spain	Joseph Strauss	Institute of Microbial Genetics (IMiG) | Tulln an der Donau, Austria	Establishing chromatin immunoprecipitation and sequencing (ChIP-Seq) analysis during plant infection by the vascular wilt fungal pathogen Fusarium oxysporum
Vasiliki **Pantazi**	University | Szeged, Hungary	Vincenzo D'Angiolella	MRC Oxford Institute for Radiation Oncology | Oxford, United Kingdom	Unravelling the E3 ligases, ubiquitin linkages and architecture that drive RNAPII to proteasomal degradation upon DNA damage
Belén **Parra**	Universidad | Granada, Spain	Manuel Salmerón-Sánchez	University of Glasgow, United Kingdom	Merging biomineralization and Engineered Living Materials to produced reinforced Hybrid Living Materials
Juan Rodrigo **Patiño Mercau**	Universidad | Granada, Spain	Annalisa Di Ruscio	Beth Israel Deaconess Medical Center (BIDMC) | Boston, United States	Study of the innovative CRISPR-DiR platform performance over the BCL7A locus in AML cell models
Dora **Pavić**	University | Zagreb, Croatia	Leticia Botella Sanchez	University of South Bohemia | Ceske Budejovice, Czech Republic	Detection and identification of the putative viruses infecting the crayfish plague pathogen, Aphanomyces astaci
Lisa **Pavinato**	Università | Torino, Italy	Arianna Baggiolini	Institute Of Oncology Research (Ior) | Bellinzona, Switzerland	CAPRIN1-related neurodevelopmental disorder: filling in the gaps in our understanding of disease pathogenesis
Jessica **Pazzaglia**	Stazione Zoologica Anton Dohrn | Naples, Italy	Koen Verhoeven	Nederlands Instituut voor Ecologie (NIOO-KNAW) | Wageningen, Netherlands	The role of DNA methylation in conferring stress memory in primed P. oceanica seedlings

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Samuel **Peña Díaz**	Universitat Autònoma de Barcelona | Cerdanyola, Spain	Daniel E. Otzen	Aarhus University, Denmark	Structural insight into the inhibition of Tau amyloid aggregation
Peter **Peneder**	St. Anna Kinder-krebsforschung | Vienna, Austria	John C. Marioni	EMBL's European Bioinformatics Institute (EMBL-EBI) | Hinxton, United Kingdom	Interplay of oncogenic fusions and cellular context in sarcoma
Feng **Peng**	Institute of General Microbiology | Kiel, Germany	Jan-Willem Veening	University | Lausanne, Switzerland	Study the relation of DNA condensation with DNA repair systems in Corynebacterium glutamicum using CRISPRi-seq
Cláudia **Pereira**	University of Porto, Portugal	Gian Pietro Di Sansebastiano	Universita del Salento | Lecce, Italy	Localization of stress-related proteins and key-nodes of their interaction network
David **Pérez Boyero**	Institute for Biomedical Research of Salamanca (IBSAL) | Salamanca, Spain	Davide Ragozzino	Università 'La Sapienza' | Roma, Italy	Analyses of microgliosis in a model of selective neurodegeneration, the Purkinje Cell Degeneration mouse
Laura **Pérez Revuelta**	Instituto de Neurociencias de Castilla y León | Salamanca, Spain	Elisa Motori	University of Cologne, Germany	Understanding the molecular basis of VEGF-B neuroprotection: mitochondrial involvement
Giulia **Pericoli**	Bambino Gesù Children's Hospital (Ospedale Pediatrico Bambino Gesù) | Rome, Italy	Britta Engelhardt	University | Bern, Switzerland	Blood-brain barrier models for future translation of therapeutic strategies in Pediatric-type diffuse high-grade gliomas
Olga **Perzanowska**	University | Warsaw, Poland	Andrea Rentmeister	University of Münster, Germany	Chemo-enzymatic modifications of the 5'-cap by methyltransferase – effect on protein expression and immunogenic properties of mRNA
Emma **Pietsch**	Bernhard-Nocht-Institut fuer Tropenmedizin | Hamburg, Germany	Dominique Soldati-Favre	University of Geneva, Switzerland	Phenotypic characterization of a mitochondrial patatin-like phospholipase in the human malaria parasite Plasmodium falciparum
Rebeca **Piñeiro Sabaris**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Jonathan Butcher	Cornell University | Ithaca, United States	Role of GATA6 in aortic valve development and disease
Francisca **Pinheiro**	Universitat Autònoma de Barcelona | Cerdanyola, Spain	Paolo Arosio	ETH Zurich, Switzerland	Molecular insights into alpha-synuclein aggregation: from liquid-liquid phase separation to amyloid fibril formation
Matteo **Pivato**	University | Verona, Italy	Glen Wheeler	Marine Biological Association of the UK | Plymouth, United Kingdom	Dissecting the role of intracellular Ca2+ signalling in Chlamydomonas reinhardtii responses to the environment
Zlatka **Plavec**	University of Helsinki, Finland	Andrew Quigley	Harwell Research Complex | Didcot, United Kingdom	Production and purification of full length neuropilin 1 and ACE2 and cryogenic electron tomography
Marta **Pulido-Sánchez**	Universidad Pablo de Olavide | Sevilla, Spain	Felipe Cava	Umeå University, Sweden	Identification of the molecular cues governing polar organization in the bacterium Pseudomonas putida
Andrew **Quinn**	University | Lausanne, Switzerland	Michael Zimmermann	EMBL | Heidelberg, Germany	Screening the metabolic activity of the honeybee gut microbiome against a comprehensive pesticide library and pollen compounds
Alicja **Rabiasz**	Institute of Human Genetics | Poznan, Poland	Susana Lopes	Nova Medical School | Lisbon, Portugal	The use of mRNA therapy to restore ciliary function in zebrafish with knockout of CCDC39, the known primary ciliary dyskinesia (PCD) gene
Laura **Ramos Hernandez**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Silvia Giuliana Priori	Istituto Maugeri IRCCS | Pavia, Italy	Identification of molecular mechanisms underlying JCT degradation in the CASQ2R33Q/R33Q CPVT mouse model and identification of electrophysiological determinants of the disease

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Ronja **Rappold**	ETH Zurich, Switzerland	Ulrich auf dem Keller	Technical University of Denmark | Lyngby, Denmark	Using sub-tissue level proteomics analysis to reveal mechanobiological changes in the intestinal extracellular matrix upon inflammation
Alvaro **Regano**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Thomas Höfer	Deutsches Krebsforschungszentrum (DKFZ) | Heidelberg, Germany	Cardiovascular single cell barcoding and functional genetics
Ana Cristina **Reguera Moreno**	Universitat Internacional de Catalunya | Barcelona, Spain	Emily Eden	University College London, United Kingdom	Role of CPT1C in the regulation of the endosomal function
Ana **Restrepo**	University of Technology | Delft, Netherlands	Keisuke Goda	University of Tokyo, Japan	Intelligent image-activated sorting of synthetic vesicles
Irene **Righetto**	Università di Padova, Italy	Marco W. Fraaije	University | Groningen, Netherlands	A journey in the past: the flavin-based catalysis at the origin of cellular life
Ronald **Rios-Santacruz**	Institut de Biologie Structurale | Grenoble, France	Makina Yabashi	RIKEN SPring-8 Center (RSC) | Sayo-gun, Japan	Molecular movie of a new light-sensitive protein by time-resolved serial femtosecond crystallography at X-ray free electron lasers
Inés **Ripa**	Universidad Autonoma | Madrid, Spain	Abel Viejo-Borbolla	Medizinische Hochschule | Hannover, Germany	Targeted mutation of neurovirulence factor ICP34.5 in fluorescently-labelled herpesviruses HSV-1 and HSV-2
Chiara Luna **Rivolta**	Basque Center on Cognition | Brain and Language, Spain	Asli Ozyurek	Max Planck Institute for Psycholinguistics | Nijmegen, Netherlands	The impact of modality on language-brain entrainment: a comparison of spoken and signed languages
Javier **Robles Sebastián**	Centro de Investigaciones Biológicas (CIB / CSIC) | Madrid, Spain	Juan Antonio Vizcaino	EMBL's European Bioinformatics Institute (EMBL-EBI) | Hinxton, United Kingdom	Reuse of available public proteomics data for the reinforcement and expansion of useful identified biomarkers for colorectal cancer
Lucie **Rocha**	Instituto de Tecnologia Química e Biólogia | Oeiras, Portugal	Giovanni Bussi	International School for Advanced Studies | Trieste, Italy	Applying enhanced sampling to study the gating mechanism of beta-lactoglobulin calyx
Miguel **Rocha**	Universidade do Minho | Braga, Portugal	Maria Zimmermann-Kogadeeva	EMBL | Heidelberg, Germany	Predicting interactions of the gut microbiome with drugs
María **Rodríguez Hidalgo**	BioDonostia Health Research Institute | San Sebastian, Spain	Susanne Roosing	Radboud University | Nijmegen, Netherlands	Study of intronic variants in genes linked to Inherited Retinal Dystrophies among patients from the Basque country with a challenging diagnosis based on WGS
Juan Antonio **Rodriguez Perez**	GLOBE Institute | Copenhagen, Denmark	Tom Delmont	Genoscope | Évry, France	Environmental metagenomics of cheese production
Athanasios **Rogdakis**	University of Crete | Heraklion, Greece	Michael Kohl	University of Glasgow, United Kingdom	Assessment of a selective TrkB agonist in rescuing AD-related changes in spine density and calcium dynamics in the 5xFAD animal model
Rafael **Romero-Becerra**	Centro Nacional de Investigaciones Cardiovasculares (CNIC) | Madrid, Spain	Roger J. Davis	University of Massachusetts | Worcester, United States	Differential function of MKK6 in white and brown adipose tissue triggering obesity
Ana B. **Romero-Losada**	Universidad | Sevilla, Spain	Gerben Van Ooijen	University of Edinburgh, United Kingdom	Construction of a transcriptional network of the circadian clock of Ostreococcus tauri, based on RNA-Seq and ChiP-Seq data
Zuzanna **Rydzynska**	Medical University | Lodz, Poland	Monika Linder	Ludwig-Maximilians-Universität | München, Germany	Functional assessment of corrected iPSC derived from ELANE-related severe congenital neutropenia patient
Helena **Sabata Perez**	Josep Carreras Leukaemia Research Institute (IJC) | Barcelona, Spain	Maria Pilar Alcolea	University of Cambridge, United Kingdom	Unravelling endothelial clonal dynamics in PIK3CA-related vascular malformations

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Jerica **Sabotič**	Josef Stefan Institute | Ljubljana, Slovenia	José M. Padrón	Universidad De La Laguna | Santa Cruz de Tenerife, Spain	Deciphering the mechanisms of anticancer activity of fungal lectins
Inés **Saenz De Santa Maria**	Institut Pasteur | Paris, France	Roberto Weigert	NIH | Bethesda, United States	Assessing the role of tunneling nanotubes (TNTs) in tumor progression in live animals using intravital microscopy
Ketul **Saharan**	Institute of Life Sciences | Bhubaneshwar, India	Sandip Basak	Nanyang Technological University Singapore, Singapore	Cryo-electron microscopic characterization of histone oligomer recognition by Plasmodium falciparum nucleoplasmin
Martín **Salamini Montemurri**	Centro de Investigaciones Cientificas Avanzadas - CICA - UDC | San Vicenzo de Elviña, Spain	Myriam Gorospe	National Institute of Aging | Baltimore, United States	Identification and analysis of ncRNA-interacting partners of HMGB1 and HMGB2 in ovarian cancer cells
Marina **Salvadores Ferreiro**	Institute for Research in Biomedicine | Barcelona, Spain	Jussi Taipale	Karolinska Institutet | Stockholm, Sweden	Characterization of transcriptional profiles relevant for drug resistance in HGSOC using scRNA-Seq
Laura **Sanchez Bellver**	Universitat de Barcelona | Barcelona, Spain	Alison Hardcastle	University College London, United Kingdom	Generation of gene-edited isogenic USP48 knockout induced pluripotent stem cells (iPSCs) to produce 3D retinal organoids as a human retinal disease model
María Antonia **Sánchez-Romero**	Universidad | Sevilla, Spain	Dan Andersson	Antibiotic Center | Uppsala, Sweden	Contribution of non-genetic mechanisms to antibiotic resistance in Salmonella
Jeniffer **Sanguino Gómez**	University | Amsterdam, Netherlands	Sheela Vyas	Institut de Biologie Paris Seine (IBPS) | Paris, France	Unraveling the role of microglia in the effects of stress on learning and memory
Pablo **Santamarina-Ojeda**	University | Oviedo, Spain	Luca Tiberi	University | Trento, Italy	Development of brain organoids for modelling high-grade gliomas
Anna **Santin**	Stazione Zoologica 'Anton Dohrn' | Napoli, Italy	Angela Falciatore	Institut de Biologie Paris Seine (IBPS) | Paris, France	Exploring the role of diatom low affinity nitrate transporters (diNPFs) in photosynthesis and intracellular nutrient homeostasis
Anezka **Santolikova**	Biology Centre | Ceske Budejovice, Czech Republic	Dorothee Huchon	Tel Aviv University, Israel	Parasitic cnidarians: comparative genomics and host-parasite interaction of unexplored lineages
Veronica **Santoro**	Università | Torino, Italy	Christian Hermans	Université Libre de Bruxelles | Brussels, Belgium	Strigolactones and ethylene interaction in controlling tomato plants acclimation to phosphorus deficiency
Celina **São José**	Instituto de Investigação e Inovação em Saude (i3S) | Porto, Portugal	Stefan Mundlos	Max Planck Institute for Molecular Genetics | Berlin, Germany	Unveil CDH1 regulatory network, beyond coding mutations in HDGC
Gianluca **Scerra**	Università 'Federico II' | Napoli, Italy	Franck Perez	Institut Curie | Paris, France	Development of assays aimed at analysing signal peptide-mediated translocation of disease-related proteins
Elena **Schäfer**	University of Cambridge, United Kingdom	Michael Krogh Jensen	Technical University of Denmark | Lyngby, Denmark	Transfer and evolution of positive gene regulatory systems from prokaryotes to eukaryotes
Kerstin **Schmid**	University | Würzburg, Germany	Oscar Camara Rey	Universitat Pompeu Fabra | Barcelona, Spain	Computational fluid dynamics simulation of pulmonary blood flow in a virtual model of the human alveolar sac
Sophie **Seidel**	ETH Zurich | Basel, Switzerland	Jan Philipp Junker	Max-Delbrück-Centrum | Berlin, Germany	Phylodynamic analyses to quantify the cell dynamics during zebrafish development
Esther **Senden**	Tel Aviv University, Israel	Francesca Margherita Quattrocchio	University | Amsterdam, Netherlands	The mystery of continuous colour variation in Oncocyclus Irises: Petunia can be of help

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Julia **Serna**	Institute of Molecular Biology and Genetics IBGM (Instituto de Biología y Genética Molecular (IBGM)) | Valladolid, Spain	Claire Hivroz	Institut Curie | Paris, France	Kv1.3 role in the immunological synapse
Marina **Serra**	University of Cagliari | Cagliari, Italy	Diego Calvisi	Universität | Regensburg, Germany	Role of Ral-A GTPase in hepatocellular carcinoma
Claudia **Serrano Colome**	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Aylwyn Scally	University of Cambridge, United Kingdom	Study of the mutational processes and evolutionary dynamics of cancer
Balma **Serrano Porcar**	Institut D'Investigacions Biomèdiques August Pi i Sunyer (IDIBAPS) | Barcelona, Spain	Tomás Ryan	Trinity College | Dublin, Ireland	Manipulating short-term memory engrams
Ignacio **Serrano-Martínez**	Instituto de Parasitología y Biomedicina | Armilla, Spain	Agnieszka Basta-Kaim	Polish Academy of Sciences | Maj Institute of Pharmacology, Poland	Role of cortistatin in neuroinflammation
Maja **Šetinc**	Institute for Anthropological Research | Zagreb, Croatia	Joris Deelen	Max Planck Institute for Biology of Ageing | Cologne, Germany	Functional characterisation of longevity-associated genetic variants using HAP1 cell lines
Adeena **Shafique**	University of Insubria | Busto Arsizio, Italy	Ira Milosevic	Wellcome Centre for Human Genetics | Oxford, United Kingdom	Links between vesicular trafficking defects, Rab-family proteins and neurodegeneration
Shubham **Sharma**	Indian Institute of Technology | Gandhinager, India	David Monchaud	Université de Bourgogne | Dijon, France	Identification of protein interacting partners of G-Quadruplex harbouring lncRNAs dysregulated in colorectal cancer
Jui **Shinde**	University Medical Centre (UMC) | Utrecht, Netherlands	Peter J. Cullen	University of Bristol, United Kingdom	Proteomic analysis of the CHEVI complex: towards understanding defective endosomal recycling in ARC syndrome
Giacomo **Siano**	Scuola Normale Superiore | Pisa, Italy	Alessandro Ori	Leibniz-Institut fuer Altersforschung | Jena, Germany	Identification of Tau interactors in the nuclear compartment
Cesar **Sierra**	Centro de Regulación Genómica (CRG) | Barcelona, Spain	Ana Pombo	Max-Delbrück-Centrum | Berlin, Germany	Understanding multi-level changes in 3D genome topology in Down syndrome trisomic neurons
Teresa **Sierra Arregui**	University of the Basque Country | Leioa, Spain	Talia Lerner	Northwestern University | Chicago, United States	New approaches fot the study of the dopaminergic system in a mouse model of autism
Sara **Silva Pereira**	Instituto de Medicina Molecular João Lobo Antunes | Lisbon, Portugal	Maria Bernabeu	EMBL | Barcelona, Spain	Bioengineering 3D bovine microvessels to understand cerebral trypanosomiasis
Marco **Silvestri**	Institut national du cancer (Istituto Nazionale dei Tumori | Fondazione IRCCS) | Milano, Italy	Trung Nghia Vu	Karolinska Institutet | Solna, Sweden	Establishment of bioinformatic pipeline for the assessment of cancer evolution trough circulating tumor cells in cholangiocarcinoma patients
Joanne **Simpson**	Cancer Research Centre | Edinburgh, United Kingdom	Johanna Joyce	University | Lausanne, Switzerland	Investigating B cell interactions with glioblastoma tumour cell subtypes
Nabodita **Sinha**	Indian Institute of Technology | Kanpur, India	Masahide Kikkawa	University of Tokyo, Japan	Unraveling the molecular-to-atomic structure of plant seed storage protein bodies containing amyloidic composites
Halil Mert **Solak**	Université Bülent Ecevit | Zonguldak, Türkiye	Dagmar Cizkova	Czech Academy of Sciences | Staré Mesto, Czech Republic	Variation in the composition of gut microbiota of Anatolian Blind Mole Rat (Nannospalax xanthodon) across the altitude gradient
Carlos **Solarat**	University | Vigo, Spain	Noor Gammoh	The Institute of Genetics and Cancer | Edinburgh, United Kingdom	Vesicual trafficking in Bardet-Biedl syndrome

Name ▼	Home institute	Group leader	Host institute	Project
Anna **Solé-Gil**	Instituto de Biología Molecular y Celular de Plantas | Valencia, Spain	Barbara Ambrose	New York Botanical Garden | New York City, United States	Generation of vascular development mutants in the fern Ceratopteris richardii through RNAi technology and in situ hybridization assays in primitive vascular plants (lycophytes and ferns)
Ece **Sonmezler**	Dokuz Eylul University | Izmir, Türkiye	Emanuele Buratti	ICGEB | Trieste, Italy	Investigation of the impact of the splice-altering variants and their therapeutic modulation in a large cohort of Turkish patients with rare neurogenetic disorders
Ármin **Sőth**	Eötvös Loánd University | Budapest, Hungary	Anne Spang	Biozentrum | University of Basel, Switzerland	Understanding the role of Rabenosyn-5 in coordinating various endosomal tethering complexes
Mariangela **Spagnuolo**	Johannes-Gutenberg-Universität | Mainz, Germany	David Gatfield	University | Lausanne, Switzerland	Unveiling the impact of RNA modifications on translation
Lucian **Staicu**	University | Warsaw, Poland	Barbara Schoepp-Cothenet	CNRS | Marseille, France	The quest for the arsenic and selenium reductase(s) of Shewanella sp. O23S
Georgios **Stefos**	Agricultural University | Athens, Greece	Shota Nakamura	Research Institute for Microbial Diseases | Osaka, Japan	Development of an in vivo model for the study of the association between microbiota and G4-related transcription of the host
Ralf **Steinhilper**	MPI für Biophysik | Frankfurt, Germany	Frank Sargent	University | Newcastle upon Tyne, United Kingdom	Structure-guided mutagenesis of the Escherichia coli formate hydrogenlyase complex examining catalytic bias and regulation in vivo
Côme **Stellio**	Université Paul Sabatier | Toulouse, France	Bernd Bukau	Zentrum für Molekulare Biologie (ZMBH) | Heidelberg, Germany	Directed evolution of molecular chaperones towards aggregation-prone substrates
Boris **Stojilkovic**	University | Gent, Belgium	Janice De Almeida Engler	Sophia Agrobiotech Institute, France	Immunolocalization of the effector MjNEROSs secreted by the root-knot nematode Meloidogyne javanica in tomato
Sukrampal **Sukrampal**	Indian Institute of Science Education and Research (IISER) | Mohali, India	Catarina Paquete	Instituto de Tecnologia Química e Biólogia | Oeiras, Portugal	Elucidating the novel outer membrane components involved in the extracellular electron transfer process of a novel haloalkaliphilic Geoalkali-bacter sp. SAP-1
Meenakshi **Suku**	Trinity College | Dublin, Ireland	Giancarlo Forte	International Clinical Reearch Center | Brno, Czech Republic	Harnessing cardiac-specific cues to generate iPSC-derived cardiac resident macrophages
Taras **Sych**	Karolinska Institutet | Stockholm, Sweden	Patricia Bassereau	Institut Curie | Paris, France	Impact of protein extracellular domain on their sorting and dynamics in highly curved membranes
Mateusz **Szczepańczyk**	University of Environmental and Life Sciences | Wrocław, Poland	Michael Sauer	Institute of Microbiology and Microbial Biotechnology | Vienna, Austria	Optimization of mannitol utilisation by yeast Yarrowia lipolytica
Alperen **Taciroglu**	Middle East Technical University | Ankara, Türkiye	Christine A. Orengo	University College London, United Kingdom	Evolutionary and functional analysis of giant sarcomeric proteins using state-of-the-art structural bioinformatics algorithms
Vitor **Teixeira**	Instituto de Investigação e Inovação em Saude (i3S) | Porto, Portugal	Maya Schuldiner	Weizmann Institute of Science | Rehovot, Israel	SEIPINEXPLORE
Vasiliki **Theodorou**	IMBB - FORTH | Heraklion, Greece	Mattias Mannervik	Stockholm University, Sweden	Learning CUT&Tag and ATAC-seq adjusted for Drosophila cells to study neural chromatin dynamics in development and disease
Eiríkur **Thormar**	GLOBE Institute | Copenhagen, Denmark	Diego Robledo	University of Edinburgh, United Kingdom	Investigating disease resistance through the lens of metagenomics, quantitative genetics and functional genomics

Name ▼	Home institute	Group leader	Host institute	Project
Roberto **Tira**	University | Verona, Italy	Carlos A. Castañeda	University | Syracuse, United States	Determining the ubiquitin-mediated interaction between the quality control protein UBQLN2 and the Alzheimer's related protein Tau in liquid condensates
Filip **Tomczuk**	Institute of Psychiatry and Neurology | Warsaw, Poland	Selina Wray	University College London, United Kingdom	Induced pluripontent stem cells (iPSCs) and cereberal organoids as a neurode-generative disease models
Gabriel **Torregrosa Cortés**	Universitat Pompeu Fabra | Barcelona, Spain	Francis Corson	École Normale Supérieure | Paris, France	Stochastic landscapes of gastruloid development from single cell data
Anabel **Torrente López**	Universidad | Granada, Spain	Andrea Hawe	Coriolis Pharma Research GmbH | Planegg, Germany	Stability of therapeutic proteins formulations under hospital use conditions: particle characterization
Victoria **Twort**	Finnish Museum of Natural History | Helsinki, Finland	Tom Gilbert	GLOBE Institute | Copenhagen, Denmark	Unlocking the 'true' evolutionary history of Myotis bats
Olympia **Tziouvara**	Hellenic Pasteur Institute | Athens, Greece	Eva Gluenz	University of Glasgow, United Kingdom	Generation of TyrPIP_22 L. major KO parasites
Claudia **Vales-Villamarín**	Instituto de Investigación Sanitaria | Madrid, Spain	Antje Körner	Center for Pediatric Research (CPL) | Leipzig, Germany	Characterization of LDAH gene and analysis of its relation to childhood obesity
Andrés **Vicente**	Universidad Autonoma | Madrid, Spain	Tiago Fernandes	Institute for Bioengineering and Biosciences (IBB) | Porto Salvo, Portugal	Characterization of mature cerebellar organoids using iPSCs from Friedreich´s ataxia patients
Carlos **Villarroel Vicente**	University | Valencia, Spain	Karolien De Bosscher	University | Gent, Belgium	Studies of the mechanism of action of dual (alpha, gamma) or pan-PPAR (alpha, beta/ delta, gamma) agonists and their effect on glucocorticoid receptor and PPAR crosstalk
Eugenia **Vivi**	University Hospital | Regensburg, Germany	Nathalie Rouach	Collège de France | Paris, France	Assessing the perisynaptic astroglial processes distribution in mood and depression-like disorders
Eric **Voltà Durán**	Universitat Autònoma de Barcelona | Cerdanyola, Spain	Femke Heindryckx	Uppsala University, Sweden	Evaluation of targeted cancer therapies in heterotypic 3D models
Georgia Persefoni **Voulgaridou**	Democritus University of Thrace | Alexandroupoli, Greece	Sofie Mohlin	Lund University, Sweden	Exploring the role of ALDH1A in malignant metaplasia of neuroblastoma
Julian **Wagner**	Institute for Cardiovascular Regeneration | Frankfurt am Main, Germany	Kari Alitalo	Wihuri Research Institute | Helsinki, Finland	Lymphatic vessels in the aging heart
Christian A.m. **Wilson**	Universidad de Chile | Santiago, Chile	Philipp Kukura	University of Oxford, United Kingdom	Understanding the binding of protein BiP to its substrates by mass photometry
Magdalena **Wit**	Nencki Institute | Warsaw, Poland	Helmuth Gehart	ETH Zurich, Switzerland	Employing organoids to uncover the mechanisms of dietary lipid-induced alterations in the small intestine proteostasis
Shaul **Yalovsky**	Tel Aviv University, Israel	Herman Höfte	Institut Jean-Pierre Bourgin | Versailles, France	Signaling from and to the cell surface: cross-talks between cell wall sensing receptor like kinases and Rho of Plants GTPases during cell growth
Andrea **Zapater**	Institut de Recerca Biomèdica | Lleida, Spain	Anne Briancon	University Grenoble Alpes | Grenoble, France	Effect of obstructive sleep apnea in endothelial dysfunction in patients with acute coronary syndrome
Vittoria **Zucconi Galli Fonseca**	Toscana Life Sciences Foundation | Siena, Italy	Manuel Amieva	Stanford University School of Medicine, United States	Ex vivo gastrointestinal organoids as a new 3D tool for therapy development against multidrug-resistant Klebsiella pneumoniae

EMBO New Venture Fellowships

EMBO New Venture Fellows 2022

Name ▼	Home institute	Group leader	Host institute	Project
Elif **Eroglu**	Karolinska Institutet | Solna, Sweden	Xavier Trepat	Institut de Bioenginyeria de Catalunya (IBEC) | Barcelona, Spain	May the force be with you: understanding mechanical forces that guide heart regeneration
Ron **Orbach**	Bar-Ilan University | Ramat Gan, Israel	Elisha Krieg	Leibniz Institute | Dresden, Germany	Elucidating the role of microtubule geometry in cilia self-organization using DNA origami nanoseeds

EMBO Core Facility Fellowships

EMBO Core Facility Fellows 2022

Name ▼	Home institute	Group leader	Host institute	Project
Isabelle **Bonne**	National University of Singapore, Singapore	Adeline Mallet	Institut Pasteur | Paris, France	Correlative light and focus ion beam scanning electron microscopy – functional and structural studies to decipher the role of mitochondria-associated prohibitin 1 during enterovirus 71 infection in neuronal cells
Ana **Fernandez-Minan**	Centro Andaluz de Biología del Desarrollo (CABD) | Sevilla, Spain	Jochen Wittbrodt	Centre for Organismal Studies (COS) | Heidelberg, Germany	Advanced methods for genetic edition in teleost models
Pauline **Sallaberry**	Universidad Mayor | Santiago, Chile	Jenna Hakkesteeg	University College London, United Kingdom	Establishing a zebrafish sperm cryopreservation and in vitro fertilization hub in the south of the world

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EMBO Advanced Collaboration Grants

EMBO Advanced Collaboration Grantees 2022

Name ▼	Home institute	Group leader	Host institute	Project
Helena **Janickova**	Institute of Physiology | ASCR, Czech Republic	Susan Hawthorne	Ulster University | Coleraine, Ireland	Selective targeting of neurons expressing nicotinic acetylcholine receptors
Devrim **Pesen Okvur**	Institute of Technology | Izmir, Türkiye	Yvette Van Kooyk	University Medical Centre (UMC) | Amsterdam, Netherlands	Glyco-code-on-chip

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EMBO Young Investigators

Applications and awards 2018 – 2022

Nationality	Applications (total)	%	Awards (total)	%	Success rate (%)
Austria	22	2.1	7	5.3	31.8
Belgium	24	2.3	3	2.3	12.5
Chile	5	0.5	0	0.0	0.0
Croatia	4	0.4	0	0.0	0.0
Czech Republic	8	0.8	0	0.0	0.0
Denmark	29	2.8	5	3.8	17.2
Estonia	1	0.1	0	0.0	0.0
Finland	11	1.1	0	0.0	0.0
France	71	6.8	13	9.8	18.3
Germany	134	12.9	23	17.3	17.2
Greece	4	0.4	0	0.0	0.0
Hungary	4	0.4	0	0.0	0.0
Iceland	0	0.0	0	0.0	0.0
India	81	7.8	3	2.3	3.7
Ireland	3	0.3	0	0.0	0.0
Israel	38	3.7	6	4.5	15.8
Italy	42	4.0	1	0.8	2.4
Lithuania	0	0.0	0	0.0	0.0
Luxembourg	1	0.1	0	0.0	0.0
Malta	0	0.0	0	0.0	0.0
Montenegro	0	0.0	0	0.0	0.0
Netherlands	47	4.5	7	5.3	14.9
Norway	18	1.7	0	0.0	0.0
Poland	9	0.9	0	0.0	0.0
Portugal	20	1.9	1	0.8	5.0
Singapore	33	3.2	3	2.3	9.1
Slovakia	0	0.0	0	0.0	0.0
Slovenia	0	0.0	0	0.0	0.0
Spain	96	9.2	9	6.8	9.4
Sweden	64	6.1	4	3.0	6.3
Switzerland	65	6.2	18	13.5	27.7
Taiwan	10	1.0	1	0.8	10.0
Türkiye	29	2.8	1	0.8	3.4
United Kingdom	156	15.0	28	21.1	17.9
Others	12	1.2	0	0.0	0.0
Total	1041		133		

Year	Applications (total)	Awards (total)	Success rate (%)
2022	177	24	13.6
2021	194	26	13.4
2020	225	30	13.3
2019	234	27	11.5
2018	195	26	13.3

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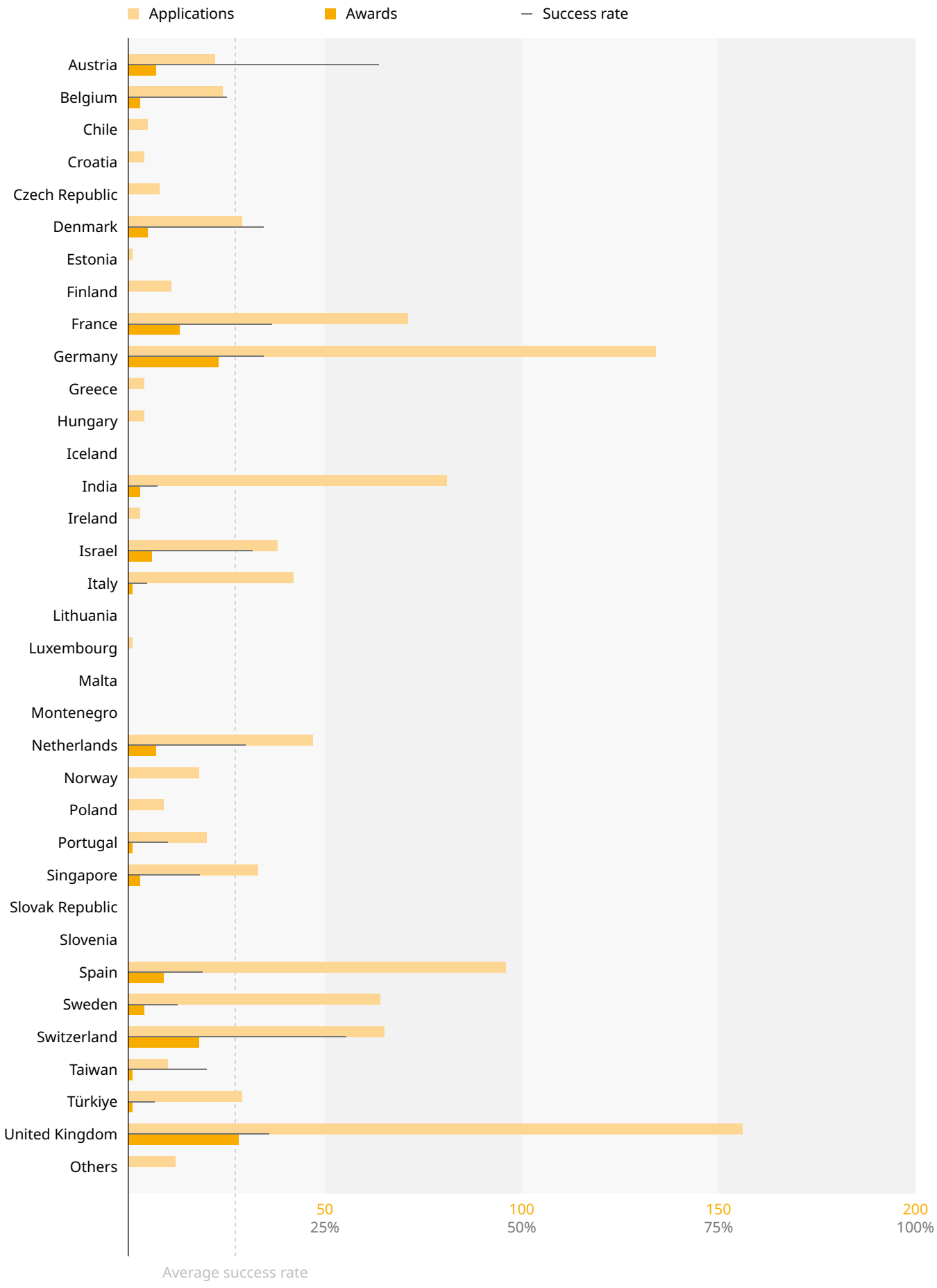
Applications and awards 2018 – 2022
(graphical representation)



EMBO Young Investigators 2022

Name ▼	Institute	Research Interest
Charlotte **Aumeier**	University of Geneva, Geneva, CH	Biochemistry and biophysics of dynamic microtubule networks
Elias **Barriga**	The Instituto Gulbenkian Ciência, Oeiras, PT	Integrative approaches to collective cell migration during tissue morphogenesis
Andreas **Boland**	University of Geneva, Geneva, CH	Deciphering the molecular mechanisms underlying chromosome segregation
Boyan **Bonev**	Helmholtz Munich, Neuherberg, DE	Dissecting epigenome regulation in brain development and evolution
Yaniv **Elkouby**	Hebrew University, Jerusalem, IL	Cell and developmental biology of oogenesis and ovarian morphogenesis
Sebastian **Falk**	University of Vienna, Vienna, AT	Biogenesis and action of small RNAs
Vilaiwan **Fernandes**	University College London, London, UK	How are developmental processes coordinated to build functional circuitry?
Mauro **Gaya**	Centre d'Immunologie Marseille-Luminy, Marseille, FR	Outlining the role of IgA in memory instruction
Hauke **Hillen**	University Medical Center, Göttingen, DE	Mechanisms of human mitochondrial gene expression
Manuela **Hospenthal**	University of Zurich, Zurich, CH	Understanding the molecular mechanisms of bacterial natural transformation
Tineke **Lenstra**	Netherlands Cancer Institute, Amsterdam, NL	Understanding transcriptional bursting in single cells
Christian **Mayer**	MPI for Neurobiology, Martinsried, DE	Single-cell delineation of lineage and genetic identity in the developing brain
Andreas **Moor**	ETH Zurich, Zurich, CH	Spatial characterization of cellular interactions in the tumor microenvironment
Bonnie **Murphy**	MPI for Biophysics, Frankfurt, DE	Structure and mechanism of redox and metalloproteins across the tree of life
Thi Hoang Duong **Nguyen**	MRC Laboratory of Molecular Biology, Cambridge, UK	Molecular mechanism and regulation of human telomerase
Lena **Pernas**	MPI for Biology of Ageing, Cologne, DE	Metabolism of infection
Benjamin **Ryskeldi-Falcon**	MRC Laboratory of Molecular Biology, Cambridge, UK	Structural cell biology of RNA-binding protein aggregation in neurodegeneration
Susan **Schlimpert**	John Innes Centre, Norwich, UK	Molecular mechanisms of life, death and survival in multicellular bacteria
Charlotte **Scott**	Ghent University, Ghent, BE	Investigating the functional heterogeneity of macrophages in the inflamed liver
Arnau **Sebe-Pedros**	Centre for Genomic Regulation, Barcelona, ES	Single-cell genomics and evolution of cell type regulatory networks
Mahima **Swamy**	University of Dundee, Dundee, UK	Intraepithelial T lymphocytes at the forefront of intestinal immunity
Daan **Swarts**	Wageningen University, Wageningen, NL	The divergent functions and mechanisms of prokaryotic immune systems
Lars **Velten**	Centre for Genomic Regulation, Barcelona, ES	Single cell and synthetic genomics of blood formation
Franklin **Zhong**	NTU Lee Kong Chian School of Medicine, Singapore, SG	Innate immunity and pathogen sensing at barrier organs

EMBO Young Investigator Lectures 2022

Young Investigator	Conference	Location	Date ▼
Jeffrey **Chao**	India | EMBO Lecture Course –RNA binding proteins: From RNA binding to condensation and aggregation	Virtual	8–11 February
Martijn **Luijsterburg**	DNA damage, mutation, and cancer	US-Ventura	6–11 March
Jan Philipp **Junker**	The multiple facets of RNA in development and disease	FR-Nice	16–18 March
Axel **Innis**	Microsymposium on RNA biology	AT-Vienna	5–7 April
Xiaoqi **Feng**	Microsymposium on RNA biology	AT-Vienna	6–8 April
Lena **Ho**	Micropeptides	US-Snowbird	6–9 April
Yanlan **Mao**	63rd Annual drosophila research conference	US-San-Diego, CA	6–10 April
Nuria **Montserrat**	Micro-physiological models: From organoids to organs-on-chip	FR-Cargese	11–15 April
Jochen **Rink**	Molecular mechanisms of developmental and regenerative biology	JP-Kyoto	26–28 April
Uri **Ben-David**	EMBO Workshop on Chromosome segregation and aneuploidy	AT-Vienna	1–5 May
Yaron **Fuchs**	Dying in self-defense: Cell death signaling in animals and plants	GR-Sissi	1–5 May
Nicholas M. I. **Taylor**	Junior scientists microbiology meeting of Marseille on New waves of thinking	FR-Marseille	4–6 May
Sonja **Lorenz**	FEBS 2022 Advanced Course on Lost in integration	GR-Spetses	9–15 May
Sophie **Polo**	French 14th 3R meeting	FR-Presqu'ile de Giens	10–13 May
Benjamin D. **Engel**	ASBMB international meeting on ESCRT biology	US-Madison	17–20 May
Andela **Saric**	ASBMB international meeting on ESCRT biology	US-Madison	17–20 May
Elvira **Mass**	EMBO | FEBS Lecture Course	GR-Spetses	19–27 May
Nicholas **McGranahan**	The RECOMB satellite workshop on computational cancer biology 2022 (RECOMB-CCB 2022)	US-La Jolla	20–25 May
Anna **Obenauf**	The many faces of cancer evolution	IT-Rimini	20–22 May
Sam **Behjati**	The many faces of cancer evolution	IT-Rimini	20–22 May
Leila **Akkari**	The many faces of cancer evolution	IT-Rimini	20–22 May
Hayley **Sharpe**	Reversible phosphorylation, signal integration, and drug discovery	GR-Vouliagmeni	22–26 May
Elena **Seiradake**	EMBO Workshop on Molecular neurobiology	GR-Heraklion	23–27 May
Wanda **Kukulski**	Lipids, proteins, and their interactions in organelle biology	GR-Spestes	29 May–4 June
Prisca **Liberali**	Decipher stem cell fate by single-cell, multiomics, and inference approaches	Virtual	30 May–1 June
Ori **Avinoam**	GRC on Cell-Cell Fusion	US-Easton	5–10 June
Andrea **Pauli**	GRC on Cell-Cell Fusion	US-Easton	5–10 June
Nuria **Montserrat**	New approaches to combat antibiotic-resistant bacteria	CH-Ascona	12–16 June
Hayley **Sharpe**	The protein kinases and phosphorylation conference: Mechanisms to therapeutics	CA-Nova Scotia	19–23 June
Daniel **Messerschmidt**	FASEB The biological methylation conference: Fundamental mechanism in human health and disease	IT-Sicily	21–26 June
Nuria **Montserrat**	Integrating the molecular, mechanistic, and physiological diversity of autophagy	HU-Eger	27 June–1 July
Christian **Münch**	Integrating the molecular, mechanistic, and physiological diversity of autophagy	HU-Eger	27 June–1 July
Ines Anna **Drinnenberg**	EMBO Workshop on Dynamic kinetochore	NO-Oslo	28 June–1 July
Daniele **Fachinetti**	Dynamic kinetochore workshop	NO-Oslo	28 June–1 July
Julie **Welburn**	Dynamic kinetochore workshop	NO-Oslo	28 June–1 July
Yanlan **Mao**	World congress of biomechanics	TW-Taipei	10–14 July
Ross **Chapman**	GRC on Genomic instability, DNA repair, and human diseases	US-Ventura	10–15 July
Pierre-Marc **Delaux**	25th International symposium on plant lipids	FR-Grenoble	10–15 July
Maria **Robles**	17th European biological rhythms society congress	CH-Zurich	24–28 July

EMBO Young Investigator Lectures 2022 *(continued)*

Young Investigator	Conference	Location	Date ▼
Ines Anna **Drinnenberg**	GRC on Centromere Biology	US-Mount Snow	24–29 July
Daniele **Fachinetti**	GRC on Centromere Biology	US-Mount Snow	24–29 July
Sonja **Lorenz**	GRC on Enzymes, coenzymes, and metabolic pathways	US-Waterville Valley	24–29 July
Guadalupe **Sabio**	AHA basic cardiovascular science: Bridging basic and translational science in cardiovascular disease	US-Chicago	25–28 July
Lena **Ho**	FASEB The molecular metabolism conference: From cell biology to systems physiology	CA-Nova Scotia	8–11 August
Alexey **Amunts**	Ribosome synthesis	CH-Engelberg	17–21 August
Benjamin D. **Engel**	17th International symposium on phototrophic prokaryotes (ISPP2022)	GB-Liverpool	21–25 August
Taco **Kooij**	15th International congress of parasitology (ICOPA XV)	DK-Copenhagen	21–26 August
Wanda **Kukulski**	EMBO Practical Course on Advances in cryo-electron microscopy and 3D image processing	DE-Heidelberg	21–29 August
Sebastian **Marquardt**	13th International conference of the French Society of Plant Biology	FR-Montpellier	29–31 August
David **Bikard**	The new microbiology	GR-Spetses	31 August–8 September
Tanmay **Bharat**	EMBO Workshop on Bacterial networks (BacNet21)	ES-Sant Feliu de Guixols	4–9 September
Sebastian **Marquardt**	Barcelona RNA club	ES-Barcelona	8–9 September
Miratul **Muqit**	EMBO Workshop on Ubiquitin and ubiquitin-like proteins in health and disease	HR-Cavtat	9–13 September
Sonja **Lorenz**	EMBO Workshop on Ubiquitin and ubiquitin-like proteins in health and disease	HR-Cavtat	9–13 September
Mina **Gouti**	From stem cells to human development	GB-Surrey	11–14 September
Prisca **Liberali**	From stem cells to human development	GB-Surrey	11–14 September
Uri **Ben-David**	The consequences of aneuploidy conference: Honoring the contributions of Angelika Amon	US-Southbridge	11–16 September
Alexey **Amunts**	Horizons in molecular biology	DE-Göttingen	12–15 September
Meritxell **Huch**	10th GSCN conference & 20 years NRW stem cell network	DE-Münster	13–16 September
Meritxell **Huch**	Hydra XV: European summer school on stem cell biology and regenerative medicine	GR-Hydra Island	13–20 September
Christian **Münch**	EMBO Workshop on New challenges in protein translocation across membranes	ES-Girona	17–21 September
Sebastian **Marquardt**	EMBO Workshop on RNA 3' ends formation and the regulation of eukaryotic genomes	GB-Oxford	19–23 September
Arun **Shukla**	4GPCRnet International symposium	DE-Leipzig	24–30 September
Ana Jesus **Garcia Saez**	Mitochondria in life, death, and disease	ME-Budva	27 September–1 October
Taco **Kooij**	EMBO Workshop on New frontiers in host-parasite interactions: From cell to organism	FR-Ile des Embiez, Six-Fours-les-Plages	2–5 October
Paul **Guichard**	Cilia2022 – the 5th European cilia conference	DE-Cologne	4–7 October
Claire **Wyart**	Cilia2022 – the 5th European cilia conference	DE-Cologne	4–7 October
Siddhesh **Kamat**	FEBS Advanced Lecture Course on 360-degree lysosome: From structure to genomics, from function to disease-update	TR-Izmir	4–9 October
Elodie **Segura**	16th International symposium on dendritic cells 2022	AU-Cairns, Queensland	9–13 October
Madeline **Lancaster**	19th International congress of developmental biology	PT-Algarve	16–20 October
Daniele **Fachinetti**	EMBO Workshop on The cell cycle: One engine – many cycles	DE-Konstanz	17–20 October
Joseph **Yeeles**	EMBO Workshop on The cell cycle: One engine – many cycles	DE-Konstanz	17–20 October
Magdalini **Polymenidou**	Protein phase transitions in ageing and age-related diseases: From atomic resolution to cellular solutions	FR-Roscoff	17–21 October

Young Investigator	Conference	Location	Date ▼
Verena **Ruprecht**	12th Development biology course: From stem cells to morphogenesis	FR-Paris	17–26 October
Patrick **Müller**	12th Development biology course: From stem cells to morphogenesis	FR-Paris	17–26 October
Julian **Stingele**	The 2022 international IBS conference for genomic integrity	KR-Busan	18–20 October
Alexey **Amunts**	Mini symposium: From protein synthesis to cell signaling	NO-Oslo	1 November
Elvan **Böke**	Pushing boundaries: Vienna Biocenter PhD program symposium	AT-Vienna	3–4 November
Igor **Adameyko**	3rd Joint meeting of the Japanese Society for Developmental Biology and the French Society for Developmental Biology: New frontiers in developmental biology: Celebrating the diversity of life	FR-Strasbourg	7–10 November
Mounia **Lagha**	3rd Joint meeting of the Japanese Society for Developmental Biology and the French Society for Developmental Biology: New frontiers in developmental biology: Celebrating the diversity of life	FR-Strasbourg	7–10 November
Jerome **Gros**	3rd Joint meeting of the Japanese Society for Developmental Biology and the French Society for Developmental Biology: New frontiers in developmental biology: Celebrating the diversity of life	FR-Strasbourg	7–10 November
Anna **Obenauf**	18th International ASEICA congress	ES-Santiago de Compostela	16–18 November
Alexey **Amunts**	33rd Tokyo RNA Club	JP-Tokyo	5 December
Andela **Saric**	ASCM/EMBO CellBio annual meeting subgroup on Reshaping and remodelling membranes	US-Washington DC	3–7 December
Tanmay **Bharat**	24th EMBL PhD Symposium: The spectra of life – Dimensional breadth in biological research	DE-Heidelberg	7–9 December
Paul **Guichard**	24th EMBL PhD Symposium: The spectra of life – Dimensional breadth in biological research	DE-Heidelberg	7–9 December
Jan Philipp **Junker**	24th EMBL PhD Symposium: The spectra of life – Dimensional breadth in biological research	DE-Heidelberg	7–9 December
Prisca **Liberali**	24th EMBL PhD Symposium: The spectra of life – Dimensional breadth in biological research	DE-Heidelberg	7–9 December
Ines Anna **Drinnenberg**	Chromosome stability 2022	IN-Kerala	13–18 December

EMBO Installation Grants

EMBO Installation Grantees 2022

Name ▼	Moving From	Moving to	Research interest
Ana Luísa **Correia**	Champalimaud Foundation, Lisbon, PT	Champalimaud Foundation, Lisbon, PT	Tissue-specific immune regulation of disseminated tumor cell dormancy
Gytis **Dudas**	Vilnius University, Vilnius, LT	Vilnius University, Vilnius, LT	Characterising metagenomically discovered orthomyxovirus surface proteins
Emrah **Eroglu**	Medipol University, Istanbul, TR	Medipol University, Istanbul, TR	Unveiling the mechanisms of brain endothelial dysfunction with chemogenetics
Michaela **Fenckova**	University of South Bohemia, České Budějovice, CZ	University of South Bohemia, České Budějovice, CZ	Drosophila habituation for preclinical research of neurodevelopmental disorders
Marco **Fumasoni**	Harvard University, Cambridge, US	The Instituto Gulbenkian Ciência, Oeiras, PT	Evolutionary rewiring genome maintenance
Jelena **Godrijan**	Ruđer Bošković Institute, Zagreb, HR	Ruđer Bošković Institute, Zagreb, HR	Decoding the influence of cocco-lithophore life cycle on the oceanic carbon cycle
Adam **Kłosin**	Nencki Institute of Experimental Biology, Warsaw, PL	Nencki Institute of Experimental Biology, Warsaw, PL	Spatial organisation of transcription in embryonic development
Urszula **McClurg**	Łódź University, Łódź, PL	Łódź University, Łódź, PL	How is the germ-soma barrier maintained and why does it often fail in cancer?
Nur **Mustafaoglu**	Harvard Medical School, Boston, US	Sabancı University, TR	GBM-shuttle: Glioblastoma blood-brain barrier model for developing nano-shuttles
Patrick **Pausch**	Vilnius University, Vilnius, LT	Vilnius University, Vilnius, LT	Mobile genetic elements as a source of new genome editing technology
Hedvig **Tamman**	Tartu University, Tartu, EE	Tartu University, Tartu, EE	The role of stringent response in the phage defense of Pseudomonas putida

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EMBO Global Investigator Network

EMBO Global Investigators 2022

Name ▼	Institute	Research Interest
Baskar **Bakthavachalu**	Indian Institute of Technology IIT, Mandi, IN	The juggling act of RNP-granules in neuronal function and neurodegeneration
Shruti **Bhatt**	National University of Singapore, SG	Understanding and targeting drug resistance in myeloid malignancies
Hsiao-Han **Chang**	National Tsing Hua University, Hsinchu, TW	The evolution and spread of pathogens
Chen-Hui **Chen**	Academia Sinica, Taipei, TW	Dissecting complex tissue regeneration using the zebrafish model
Tanweer **Hussain**	Indian Institute of Science, Bangalore, IN	Understanding protein synthesis and its regulation
Chuan **Ku**	Academia Sinica, Taipei, TW	Evolutionary, regulatory and ecological genomics of eukaryotic microbes
Vinothkumar **Kutti Raghunath**	National Centre for Biological Sciences, Bangalore, IN	Structures of macromolecules and their dynamics
Cesar Antonio **Ramirez Sarmiento**	Pontifical Catholic University of Chile, Santiago de Chile, CL	Evolution, engineering and design of metamorphic proteins and PET hydrolases

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EMBO | Japan Virtual Lectures

Lectures 2022

Name of Event	Speakers	Japanese Host Institution	Date ▼
Molecular and clinical approaches to restoring visual function	Botond Roska *(EMBO Member)* Tomohiro Masuda Masayo Takahashi *(EMBO Associate Member)*	Kobe Eye Center	14 September
Molecular basis of epigenetic inheritance and totipotency	Anne Ferguson-Smith *(EMBO Member)* Masahiro Nagano	Kyoto University	16 November

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EMBO Courses & Workshops

Practical Courses 2022
EMBC Member States

Title	Organizer	Location	Date ▼ (postponed from)
Population genomics: Background and tools	V. Colonna	Virtual	22–30 March
Integrated multi–omic analyses of microbial communities	P. Wilmes	LU–Luxembourg	23–29 April (16–23 March 2020)
Methods for analysis of circRNAs: From discovery to function	V. Benes	DE–Heidelberg	23–29 April (13–19 November 2021)
Spatial analysis of gene expression in tissues	J. Lundeberg	SE–Solna	2–6 May
Characterisation of post–translational modifications in cellular signalling	M.R. Larsen	DK–Odense	5–12 May
Characterization of macromolecular complexes by integrative structural biology	M. Marcia	FR–Grenoble	28 May–4 June (29 May–5 June 2021)
Humanized mice, personalized therapies and big data	R. Stripecke	DE–Heidelberg	12–17 June (13–18 June 2021)
Breathless microbes: Life with no oxygen	D. Rush	NL–Wageningen	20–24 June (26–30 July 2021)
Small angle neutron and x–ray scattering from biomacromolecules in solution	F. Gabel	FR–Grenoble	20–24 June (3–7 May 2021)
Advanced electron microscopy for cell biology	K. Bowitz Larsen	NO–Tromsø	27 June–6 July (21 June–1 July 2021)
3D developmental imaging	G. Martins	Hybrid–PT–Oeiras	1–9 July
Integrative cellular structural biology	M. Nilges	FR–Paris	4–9 July
Sensing biophysical properties in living samples using light microscopy	H. Sébastien	FR–Rennes	4–9 July
High throughput protein production and crystallization	J. Reguera	FR–Marseille	4–12 July (5–13 July 2021)
C. elegans: From genome editing to imaging	G. Rapti	DE–Heidelberg	17–23 July
Integrating traditional and molecular approaches in ecology of glacial habitats (ICME)	A. Franzetti	IT–Milano & Santa Caterina Valfurva (Stelvio National Park)	2–13 August
Structure, dynamics and function of biological macromolecules by NMR	S. Grzesiek	CH–Basel	5–12 August (6–13 August 2021)
Light sheet microscopy	P. Tomancak	CZ–Brno	15–26 August
Advances in cryo–electron microscopy and 3D image processing	J. Mahamid	DE–Heidelberg	21–29 August
Summer school for advanced modeling of behavior	C. Summerfield	ES–Barcelona	1–8 September (1–8 September 2021)
Hands–on course in genome sequencing, assembly and downstream analyses	J.F. Flot	BE–Brussels	4–10 September
Current methods in cell biology	S. Cuylen–Haering	DE–Heidelberg	4–13 September (5–14 September 2021)
Membrane protein expression, purification and characterization (mPEPC2)	C. Loew	DE–Hamburg	5–12 September

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Practical Courses 2022
EMBC Member States *(continued)*

Title	Organizer	Location	Date ▼ (postponed from)
Synthetic biology in action: Beyond standard metabolism	S. Panke	DE–Heidelberg	11–18 September (12–19 September 2021)
Integrative analysis of multi–omics data	B. Velten	DE–Heidelberg	20–23 September (4–7 May 2021)
Computational optical biology	R. Henriques	PT–Oeiras	2–7 October (23–28 May 2021)
Metabolite and species dynamics in microbial communities	M. Zimmermann–Kogadeeva	DE–Heidelberg/ IN–Bangalore	16–21 October
Metabolomics bioinformatics in human health	R. Salek	NL–Wageningen	24–28 October (22–26 February 2021)
The fundamentals of high–end cell sorting	D. Ordonez	DE–Heidelberg	30 October–4 November (7–12 November 2021)
Volume electron microscopy by automated serial SEM	G. Knott	CH–Lausanne	6–11 November (24–29 October 2021)
Practical integrative structural biology	J. Kosinski	DE–Hamburg	6–13 November (7–14 November 2021)
Single–cell omics: Deeper to genomics	Q. Deng	DE–Heidelberg	13–18 November
Targeted proteomics: Experimental design and data analysis	E. Sabidó	ES–Barcelona	13–18 November

Practical Courses 2022
EMBC Associate Member States

Title	Organizer	Location	Date ▼ (postponed from)
Cryo electron microscopy and 3D image processing (CEM3DIP)	G. Pananghat	IN–Pune	4–16 December

Workshops 2022
EMBC Member States

Title	Organizer	Location	Date ▼ (postponed from)
The Epitranscriptome	D. O'Carroll	Virtual	9–11 February
Stroke–Immunology	A. Liesz	Hybrid–DE–Munich	9–12 March
Pathogen immunity and signaling	N. Manel	FR–Saint–Malo	4–8 April (26–30 September 2021)
Codon usage: Function, mechanism and evolution	Y. Liu	Hybrid–UK–Edinburgh	8–11 April (17–19 April 2021)
Long–distance cell–cell signalling in development and disease	S. Scholpp	UK–Exeter	10–13 April (11–14 April 2021)
Muscle formation, maintenance, regeneration and pathology	F. Relaix	Hybrid–FR–Gouvieux	24–29 April (5–10 April 2020)
Chromosome segregation and aneuploidy	D.W. Gerlich	Hybrid–AT–Vienna	1–4 May
Dying in self–defense: Cell death signaling in animals and plants	A.J. García–Sáez	GR–Crete	1–5 May (2–6 May 2021)
Building networks: Engineering in vascular biology	K. Haase	ES–Barcelona	9–11 May (8–10 November 2021)
Autophagy in brain health and disease	P. Verstreken	Hybrid–ES–Sant Feliu de Guíxols	11–14 May (24–27 March 2021)
Evo–chromo: Evolutionary approaches to research in chromatin	P.R. Andersen	DK–Aarhus	11–14 May (15–18 September 2021)
Molecular biology of mitochondrial gene maintenance and expression	M. Minczuk	SE–Bro	15–19 May (16–20 May 2021)
Awakening of the genome: The maternal–to–zygotic transition	K. Tachibana	Hybrid–AT–Vienna	18–21 May (19–22 May 2021)
The many faces of cancer evolution	L. Magnani	IT–Rimini	20–22 May
CD1/MR1–restricted T lymphocytes	S. Cardell	SE–Gothenburg	22–26 May (26–30 September 2021)
Reversible phosphorylation, signal integration and drug discovery	Y. Senis	Hybrid–GR–Vouliagmeni	22–26 May (6–10 June 2021)
Dendrites 2022: Dendritic anatomy, molecules and function	P. Poirazi	GR–Heraklion	23–26 May (27–30 June 2020)
Molecular neurobiology	E. Seiradake	GR–Heraklion	23–27 May
Developmental circuits in aging	G.A. Garinis	Hybrid–GR–Heraklion	27–30 May (29–31 May 2020)
Lymphocyte antigen receptor signalling	C.T. Baldari	IT–Castelnuovo Berardenga	28 May–1 June (31 August–4 September 2020)
The ISG15 system in molecular function and disease mechanisms	K.P. Knobeloch	DE–Berlin	1–4 June (24–26 June 2021)
Neural stem cells: From basic understanding to translational applications	S. Taraviras	GR–Kyllini	5–9 June (6–10 June 2021)
Protein termini: From mechanisms to biological impact	T. Arnesen	NO–Bergen	8–11 June (9–12 June 2021)
New approaches to combat antibiotic–resistant bacteria	C. Dehio	CH–Ascona	12–16 June
Molecular responses of plants facing climate change	A. Martin	FR–Montpellier	13–17 June
Molecular and developmental biology of drosophila	S. Bray	GR–Kolymbari	19–25 June
Integrating the molecular, mechanistic and physiological diversity of autophagy	G. Juhász	HU–Eger	27 June–1 July (27 September–1 October 2021)
RNA: Structure meets function	J. Hennig	SE–Åkersberga	27 June–1 July
Dynamic kinetochore	N. Sekulic	NO–Oslo	28 June–1 July (1–4 June 2021)
Persistent cancer cell: Molecular mechanisms, dynamic models towards therapy	F. Vallette	Hybrid–HR–Cavtat	28 June–1 July (23–26 July 2021)

Workshops 2022
EMBC Member States *(continued)*

Title	Organizer	Location	Date ▼ (postponed from)
Timing mechanisms linking development and evolution	M. Ebisuya	ES–Barcelona	29 June–1 July
The yin and yang of chromosomal and extra–chromosomal DNA	Y. Barral	CH–Ascona	17–20 July (4–9 July 2021)
RNA localization and local translation	J. Chao	ES–Sant Feliu de Guíxols	17–21 July (4–8 July 2021)
Birth and fission of cellular compartments	V. Frolov	Hybrid–ES–Bilbao	25–29 July (21–25 September 2020)
Molecular biology of archaea	J. Soppa	DE–Frankfurt	1–4 August (3–6 August 2020)
Ribosome synthesis	T. Meier	CH–Engelberg	17–21 August
Cell and developmental systems	M. González–Gaitán	CH–Arolla	22–26 August (23–27 August 2021)
Membrane transporters as essential elements of cellular function and homeostasis	G. Diallinas	GR–Chania	23–27 August (28 August–1 September 2021)
Bacterial networks (BacNet22)	N. Stanley–Wall	ES–Sant Feliu de Guíxols	4–9 September (5–10 September 2021)
Chemical biology	C. Deo	DE–Heidelberg	5–8 September
Germinal centers and immune niches	Z. Shulman	IL–Rehovot	5–8 September
When predictions meet experiments: The future of structure determination	A. Pastore	Hybrid–IT–Palermo	5–8 September
Ubiquitin and ubiquitin–like proteins in health and disease	S. Polo	HR–Cavtat	9–13 September (10–14 September 2021)
Modularity of signaling proteins and networks	P. Beltrao	AT–Seefeld in Tirol	11–16 September
Phagocytosis of dying cells: Molecules, mechanisms, and therapeutic implications	K. Ravichandran	BE–Ghent	12–15 September (26–29 May 2021)
A 20/20 vision of the future of nuclear receptors	J.S. Carroll	MT–Floriana	12–16 September (27 September–1 October 2021)
Physics of cells: PhysCell2022	S. Tzlil	IL–Ein Gedi	12–16 September
Tuberculosis 2022: From innovation to intervention	R. Brosch	FR–Paris	12–16 September
Comparative genomics of unicellular eukaryotes: Interactions and symbioses	J. Lukeš	ES–Sant Feliu de Guíxols	12–17 September (11–16 October 2021)
Cancer cell signalling: Linking molecular knowledge to cancer therapy	I. Dikic	HR–Cavtat	16–20 September (11–15 September 2020)
New challenges in protein translocation across membranes	D. Rapaport	ES–Sant Feliu de Guíxols	17–21 September (20–24 March 2021)
RNA 3' end formation and the regulation of eukaryotic genomes	N.J. Proudfoot	UK–Oxford	19–23 September (7–11 September 2021)
Epigenome inheritance and reprogramming in health and disease	O. Bogdanovic	HR–Split	22–26 September
The molecular and cellular basis of regeneration and tissue repair	C. Becker	ES–Barcelona	26–30 September (26–30 September 2020)
Telomere function and evolution in health and disease	S. Boulton	PT–Grandola	26 September–1 October
New frontiers in host–parasite interactions, from cell to organism	O. Silvie	FR–Six-Fours-les-Plages	2–5 October
Energy balance in metabolic disorders	G. Sabio	ES–Malaga	3–6 October (26–29 April 2021)
Cilia 2022	B. Schermer	Hybrid–DE–Cologne	4–7 October (13–16 October 2021)
Molecular mechanisms in evolution and ecology	G. Liti	DE–Heidelberg	5–8 October
Thiol oxidation in biology: Biochemical mechanisms to physiological outcomes	B. Morgan	ES–Sant Feliu de Guíxols	8–13 October (19–24 September 2021)

Title	Organizer	Location	Date ▼ (postponed from)
Nuclear structure and dynamics	J. Déjardin	FR–Montpellier	9–13 October
Adherent microbial communities: Quantitative approaches from single cell to ecosystems	T. Mignot	FR–Cargese	10–14 October (2–8 May 2021)
The DNA–damage response in cell physiology and disease	G. Legube	GR–Sounio	10–14 October (11–15 October 2021)
The cell cycle: One engine–many cycles	W. Zachariae	DE–Konstanz	17–20 October (20–23 September 2021)
The endoplasmic reticulum: The master regulator of membrane trafficking	G. Voeltz	IT–Lucca	23–28 October
From functional genomics to systems biology	A. Krebs	Hybrid–DE–Heidelberg	15–18 November
Bacterial cell biophysics: DNA replication, growth, division, size and shape	A. Zaritsky	IL–Ein Gedi	11–15 December (3–8 May 2020)

Workshops 2022
EMBC Associate Member States

Title	Organizer	Location	Date ▼ (postponed from)
The DNA damage response, immunity and aging	E. Gilson	Hybrid–SG–Singapore	10–13 October (5–9 October 2020)
Molecular and physiological basis of behavioural/ cognitive defects in neurodevelopmental disorders	J. Clement	Hybrid–IN–Bengaluru	31 October–3 November (19–22 April 2021)
An integrated view of early land plant evolution	K. Panigrahi	Hybrid–IN–Bhubaneswar	8–11 November (3–5 November 2020)
Inositol lipids: Signaling platforms for organizing cellular architecture and physiology	R. Padinjat	IN–Bangalore	14–17 November (1–4 March 2021)

Workshops 2022
Co-operation partners

Title	Organizer	Location	Date ▼ (postponed from)
Neural development and neurodegeneration	C.T. Chien	TW–Taipei	2–6 December (13–17 November 2020)

EMBO | The Company of Biologists Workshops 2022

Title	Organizer	Location	Date ▼ (postponed from)
PIWI proteins and piRNAs	H. Lin	Virtual	6–9 April (4–7 November 2020)
Molecular mechanisms of developmental and regenerative biology	I. Chambers	Virtual	26–29 April (9–11 November 2020)
Wnt 2022	A. Kikuchi	JP–Awaji	15–19 November (22–25 September 2020)

EMBO | FEBS Lecture Courses 2022
EMBC Member States

Title	Organizer	Location	Date ▼ (postponed from)
Ion channels and transporters: From molecule to human	S. Pless	IT–Erice	5–11 May
Molecular mechanisms of interorgan crosstalk in health and disease	S. Rose–John	GR–Spetses	19–27 May (20–28 May 2021)
Lipids, proteins and their interactions in organelle biology	E. Breukink	GR–Spetses	29 May–4 June (20–26 June 2021)
Molecular mechanisms in signal transduction and cancer	B.M. Burgering	GR–Spetses	16–24 August (16–24 August 2021)
Venice summer school 2022: The character concept in metabolic, physiological, and developmental evolution	J. Jaeger	IT–Venice	22–26 August (16–20 August 2021)
The new microbiology	P. Cossart	GR–Spetses	31 August–8 September
Mitochondria in life, death and disease	A. Trifunovic	ME–Budva	27 September–1 October (21–25 September 2021)

EMBO Global Lecture Courses 2022
Co-operation partners

Title	Organizer	Location	Date ▼ (postponed from)
Small brains, big ideas	J. Ewer	CL–Las Cruces	20–28 October (14–22 October 2021)

India | EMBO Lecture Courses 2022
EMBC Associate Member States

Title	Organizer	Location	Date ▼ (postponed from)
RNA binding proteins: From RNA binding to condensation and aggregation	A. Majumdar	Virtual	8–11 February (8–11 February 2021)
Functional nucleic acids: Recent landscapes and therapeutic applications	A. Rode	Hybrid–IN–Faridabad	16–19 August
Microphysiological systems: Advances and applications in human–relevant research	S. Parvatam	IN–Hyderabad	31 October–4 November
Malaria molecular epidemiology, population genetics, and evolution: Principles to practices	A. Sinha	IN–New Delhi	17–23 November (3–9 February 2021)
Structure, dynamics and interactions in biomolecular systems using NMR spectroscopy	S. Mukherjee	IN–Berhampur	12–16 December (11–15 January 2021)
Noninvasive brain stimulation: Advances in research and clinical practice	N. Thirugnanasambandam	IN–Gandhinagar	12–17 December

EMBO | EMBL Symposia 2022
EMBC Member States

Title	Organizer	Location	Dates ▼
Biological oscillators: Design, mechanism, function	A. Aulehla, H. Herzel, E. Marder, U. Schibler	Hybrid–DE–Heidelberg	6–9 March
Inter–organ communication in physiology and disease	G. Karsenty, I. Miguel-Aliaga, M. Soares	Virtual	21–23 March
Microbial infections and human cancer	A. Breiling, C. Jobin, X. Lu, T. Meyer, J. Neefjes	Virtual	6–8 April
Cellular mechanisms driven by liquid phase separation	S. Alberti, D. Dormann, E. Lemke, T. Mittag	Hybrid–DE–Heidelberg	9–12 May
Mechanobiology in development and disease	A. Diz–Muñoz, C. Heisenberg, P. Liberali, A. Šarić, X. Trepat	Hybrid–DE–Heidelberg	15–18 May
Microtubules: From atoms to complex systems	A. Akhmanova, C. Janke, K. Ori–McKenney, M. Théry	Hybrid–DE–Heidelberg	8–11 June
Defining and defeating metastasis	J. Joyce, D. Klimmeck, J. Massagué, C. Swanton	Hybrid–DE–Heidelberg	19–22 June
Innate immunity in host–pathogen interactions	B. Hube, J. Pfeiffer, F. Randow, F. Shao, C. Zipfel	Hybrid–DE–Heidelberg	17–20 July
Reconstructing the human past: Using ancient and modern genomics	J. Krause, A. Malaspinas, I. Moltke, D. Reich	Hybrid–DE–Heidelberg	13–16 September
The complex life of RNA	A. Ephrussi, W. Gilbert, T. Jensen, R. Pillai	Hybrid–DE–Heidelberg	12–15 October
Plasticity across scales: From molecules to phenotypes	E. Abouheif, A. Aulehla, A. Meyer, S. Sultan	Hybrid–DE–Heidelberg	26–29 October
The neurovascular interface	A. Acker–Palmer, R. Adams, C. Ghu	Hybrid–DE–Heidelberg	7–10 November

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EMBO Member Keynote Lectures

EMBO Member Keynote Lectures
EMBC Member States 2022

Name of EMBO Member	Title	Location	Date ▼ (postponed from)
Salvador Aznar **Benitah**	Seed and Soil: In Vivo Models of Metastasis	Virtual	25–26 January
Anne-Claude **Gingras**	LS2 Annual Meeting 2022 'Life Sciences in the 2020s: Quantitation, Integration and Prediction'	CH-Zurich	17–18 February
Matthias P. **Lutolf**	Micro-physiological Models: From Organoids to Organ-on-Chips	FR-Cargese	11–15 April (27 April–1 May 2020)
Marina V. **Rodnina**	International NetRNA Meeting 'RNA in Gene Control Across Kingdoms'	FR-Bischoffsheim	2–5 May
Hermona **Soreq**	The 17th International Symposium on Cholinergic Mechanisms	HR-Dubrovnik	8–12 May
Andrés **Aguilera**	14th 3R Meeting	FR-Hyeres	10–13 May
Elina **Ikonen**	4th Jacques Monod Meeting on Membrane Organization and Remodeling	FR-Roscoff	16–20 May (17–21 May 2021)
David P. **Lane**	18th p53 Workshop	IL-Rehovot	22–25 May (10–14 May 2020)
Caroline **Dive**	EACR Conference: Liquid Biopsies	IT-Bergamo	24–26 May
Wolf **Reik**	Decipher Stem Cell Fate by Single-cell, Multiomics and Inference Approaches	IT-Turin	30 May–1 June
Miguel A. **Del Pozo**	First International Aegean Conference on 'Mesenchymal Cells in Health and Disease'	GR-Chania	3–8 June
David I. **Stuart**	Europic 2022	UK-Harrogate	5–9 June
Yardena **Samuels**	EACR 2022 Congress 'Innovative Cancer Science: Translating Biology to Medicine'	ES-Sevilla	20–23 June
Karen **Vousden**	ISCAM2022 - Targeting Metabolic Dynamics in Cancer	IT-Turin	29 June–2 July
Amos **Tanay**	EACR Conference: Cancer Genomics	UK-Oxford	5–7 July
Pura **Muñoz-Cánoves**	Joint 25th IUBMB, 46th FEBS and 15th PABMB Congress: The Biochemistry Global Summit	PT-Lisbon	9–14 July
Caroline S. **Hill**	The TGF-β Superfamily Conference: Signaling in Development and Disease	IE-Dublin	17–21 July
Susan M. **Gasser**	Life at the Edge: The Nuclear Envelope and Nucleo-cytoplasmic Transport	DE-Potsdam	20–24 July
Jean-Louis **Bessereau**	C. elegans Neurobiology Meeting	AT-Vienna	24–27 July (8–11 July 2020)
Jacques **Neefjes**	The First Meeting of the Bridging Nordic Microscopy Infrastructures (BNMI) Network	IS-Reykjavík	17–19 August
Michael **Stratton**	School of Life Sciences Symposium 2022	CH-Lausanne	7–9 September
Francis **Barr**	Small G Proteins in Cellular Signalling and Disease	UK-Liverpool	12–15 September (6–9 July 2020)
Shinya **Yamanaka**	10th GSCN Conference & 20 Years Stem Cell Network NRW	DE-Münster	13–16 September
Cédric **Blanpain**	Hydra XV - European Summer School on Stem Cell Biology and Regenerative Medicine	GR-Hydra	13–20 September
M. Angela **Nieto**	FISV Congress 2022 - 3R: Research, Resilience, Reprise	IT-Portici	14–16 September
Elizabeth **Fisher**	Transgenic Technology Meeting 2022 (TT2022)	FI-Helsinki	17–20 September

Name of EMBO Member	Title	Location	Date ▼ (postponed from)
Joel L. **Sussman**	14th International Meeting on Cholinesterases: 8th International Conference on Paraoxonases	IT-Bologna	18–21 September
Jennifer **Lippincott-Schwartz**	Cell La Vie!	FR-Paris	21–23 September (23–25 September 2020)
Tim **Clausen**	International Conference on Plant Proteostasis 2022	ES-Madrid	21–23 September
Dana **Branzei**	Genome Organisation by SMC Complexes	UK-Edinburgh	27–30 September
François **Spitz**	Symposium on '20th anniversary of Institut Cochin'	FR-Paris	29–30 September
Philippe **Chavrier**	Pushing the Frontier of Cell Adhesion and Invasion	FR-Sète	4–7 October
Alexander **van Oudenaarden**	Nordic Meeting on Development, Stem cells, and Regeneration	DK-Copenhagen	5–7 October
Carl-Henrik **Heldin**	13th International Conference on Bone Morphogenetic Proteins	HR-Dubrovnik	8–12 October
Kairbaan **Hodivala-Dilke**	EACR Conference Cancer Metabolism	ES-Bilbao	11–13 October
Massimiliano **Mazzone**	EACR Conference Cancer Metabolism	ES-Bilbao	11–13 October
Olivier **Pourquié**	19th International Congress of Developmental Biology (ISDB Meeting)	PT-Albufeira	16–20 October
Fatima **Mechta-Grigoriou**	Cellular Bases for Patient Response to Conventional Cancer Therapies	DE-Berlin	1–3 November
Tobias J. **Erb**	The Spectra of Life: Dimensional Breadth in Biological Research	DE-Heidelberg	7–9 December

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EMBO Member Keynote Lectures
Non-EMBC Member States 2022

Name of EMBO Member	Title	Location	Date ▼ (postponed from)
Jörg **Vogel**	6th Meeting on Regulating with RNA in Bacteria and Archaea	US-Saint Petersburg	3–6 January
Robert **Tampé**	47th Lorne Conference for Protein Structure and Function	AU-Lorne	6–10 February
Maria Ina **Arnone**	Developmental Biology of Sea Urchins and other Marine Invertebrates XXVI	US-Woods Hole	5–9 April (15–19 April 2020)
Marino **Zerial**	Small GTPases in Membrane Processes: Trafficking, Autophagy and Disease	CA-Nova Scotia	15–20 May
Elizabeth **Fisher**	4th International Meeting of the Trisomy 21 Research Society	US-Long Beach	8–12 June
Marino **Zerial**	FASEB Summer Research Conference on the Regulation and Function of Small GTPases	US-Saxtons River	12–17 June
Elena **Conti**	FASEB Conference on 'Post-Transcriptional Control of Gene Expression: Mechanism of RNA Decay'	US-West Palm Beach	19–22 June (19–24 July 2020)
Antony **Carr**	The FASEB Summer Research Conference 'Dynamic DNA Structures in Biology'	CA-Western Shore	26–30 June
Kenneth H. **Wolfe**	36th International Specialized Symposium on Yeast-Yeast In The Genomics Era	CA-Vancouver	12–16 July
Daniel W. **Gerlich**	The Consequences of Aneuploidy Conference: Honoring the Contributions of Angelika Amon	US-Southbridge	11–16 September
Christer **Betsholtz**	22nd International Vascular Biology Meeting	US-Oakland	13–17 October
José R. **Penadés**	XVII Congress of the Argentinean Society for General Microbiology (SAMiGe)	AR-Los Cocos	25–28 October
Daniela **Corda**	57th SAIB Annual Meeting	AR-Buenos Aires	3–3 November
Stephan **Grill**	Fourth International Mechanobiology Conference	AU-Sydney	6–9 November (1–4 November 2020)
Facundo **Batista**	Annual Meeting of the Bioscience Societies: SAIC-SAI/ FAIC-SAFIS	AR-Mar del Plata	16–19 November

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EMBO Global Lecture Series

Lectures 2022

Speaker	Meeting or Institution	Location	Date ▼
Frank **Bradke** *(EMBO Member)*	EMBO Workshop on Neural development and neurodegeneration	TW-Taipei	1–8 December
	National Taiwan University School of Medicine	TW-Taipei	
	National Yang Ming Chiao Tung University	TW-Taipei	
Giovanni **Marsicano** *(EMBO Member)*	XXXIV Annual Meeting of the Chilean Society for Cell Biology	CL-Puerto Varas	9–16 December
	Centro de Estudios Cientificos (CECs)	CL-Valdivia	
	Universidad Mayor	CL-Santiago	

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EMBO Women in Science

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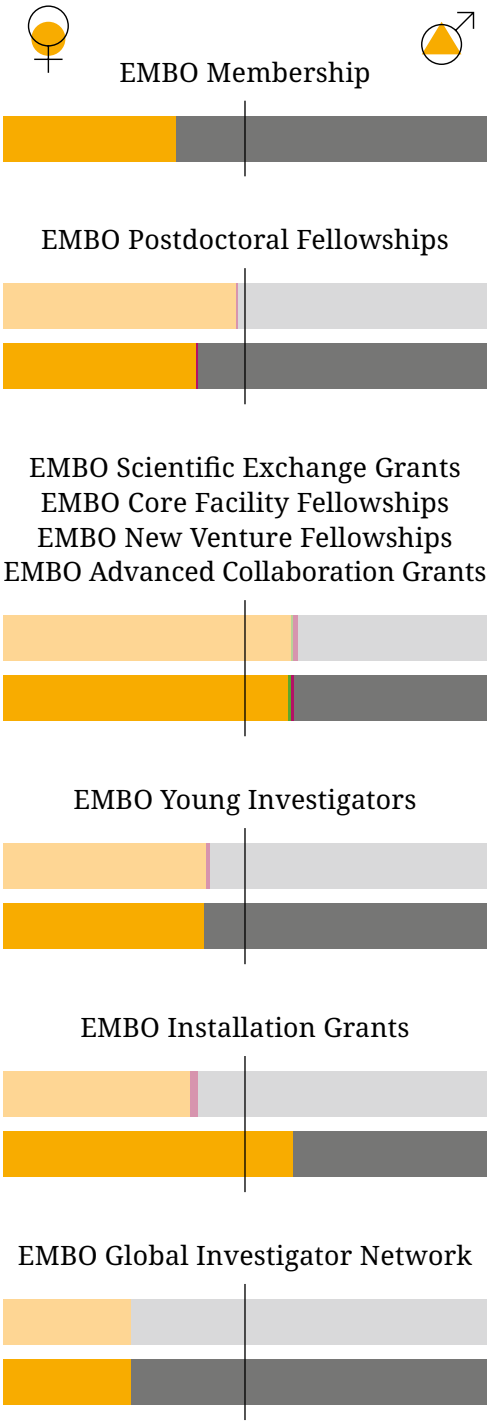

applicants *(female/other/not specified/male)*

members/awardees *(female/other/not specified/male)*

Overview 2018 – 2022

	EMBO Postdoctoral Fellowships					EMBO Scientific Exchange Grants EMBO Core Facility Fellowships EMBO New Venture Fellowships EMBO Advanced Collaboration Grants[1]				
	Applications (total)	%	Awards (total)	%	Success rate (%)	Applications (total)	%	Awards (total)	%	Success rate (%)
2018										
Female	574	47.8	77	40.3	13.4	355	59.4	208	61.7	58.6
Male	626	52.2	114	59.7	18.2	243	40.6	129	38.3	53.1
Overall	1200		191		15.9	598		337		56.4
2019										
Female	592	49.8	89	48.1	15.0	322	58.1	199	57.0	61.8
Male	597	50.2	96	51.9	16.1	232	41.9	150	43.0	64.7
Overall	1189		185		15.6	554		349		63.0
2020										
Female	662	51.4	66	44.0	10.0	195	58.7	122	56.7	62.6
Male	625	48.6	84	56.0	13.4	137	41.3	93	43.3	67.9
Overall	1287		150		11.7	332		215		64.8
2021										
Female	578	49.6	104	46.4	18.0	210	61.0	116	59.5	55.2
Male	588	50.4	120	53.6	20.4	134	39.0	79	40.5	59.0
Overall	1166		224		19.2	344		195		56.7
2022										
Female	530	48.1	91	39.9	17.2	404	59.6	229	59.0	56.7
Male	566	51.4	136	59.6	24.0	265	39.1	155	39.9	58.5
Other	—	—	—	—	—	2	0.3	2	0.5	100.0
Not specified	5	0.5	1	0.4	20.0	7	1.0	2	0.5	28.6
Overall	1101		228		20.7	678		388		57.2
2018–2022										
Female	*2936*	*49.4*	*427*	*43.7*	*14.5*	*1486*	*59.3*	*874*	*58.9*	*58.8*
Male	*3002*	*50.5*	*550*	*56.2*	*18.3*	*1011*	*40.3*	*606*	*40.8*	*59.9*
Other	—	—	—	—	—	*2*	*0.1*	*2*	*0.1*	*100.0*
Not specified	*5*	*0.1*	*1*	*0.1*	*20.0*	*7*	*0.3*	*2*	*0.1*	*28.6*
Overall	*5943*		*978*		*16.5*	*2506*		*1484*		*59.2*

1 EMBO Scientific Exchange Grants:
formerly called EMBO Short-Term Fellowships
EMBO Core Facility Fellowships: introduced in 2020
EMBO New Venture Fellowships: introduced in 2021
EMBO Advanced Collaboration Grants:
introduced in 2021

EMBO Young Investigators

	Applications (total)	%	Awards (total)	%	Success rate (%)
	74	37.9	11	42.3	14.9
	121	62.1	15	57.7	12.4
	195		26		13.3
	73	31.2	7	25.9	9.6
	161	68.8	20	74.1	12.4
	234		27		11.5
	76	33.8	11	36.7	14.5
	149	66.2	19	63.3	12.8
	225		30		13.3
	79	40.7	12	46.2	15.2
	115	59.3	14	53.8	12.2
	194		26		13.4
	74	41.8	10	41.7	13.5
	101	57.1	14	58.3	13.9
	—	—	—	—	—
	2	1.1	0	0.0	0.0
	177		24		13.6
	376	*36.7*	*51*	*38.3*	*13.6*
	647	*63.1*	*82*	*61.7*	*12.7*
	—	—	—	—	—
	2	*0.2*	*0*	*0.0*	*0.0*
	1025		*133*		*13.0*

EMBO Installation Grants

	Applications (total)	%	Awards (total)	%	Success rate (%)
	15	31.3	4	40.0	26.7
	33	68.8	6	60.0	18.2
	48		10		20.8
	18	36.7	3	27.3	16.7
	31	63.3	8	72.7	25.8
	49		11		22.4
	19	37.3	1	12.5	5.3
	32	62.7	7	87.5	21.9
	51		8		15.7
	18	40.9	3	50.0	16.7
	26	59.1	3	50.0	11.5
	44		6		13.6
	24	38.7	6	60.0	25.0
	37	59.7	4	40.0	10.8
	—	—	—	—	—
	1	1.6	0	0.0	0.0
	62		10		16.1
	94	*37.0*	*17*	*37.8*	*18.1*
	159	*62.6*	*28*	*62.2*	*17.6*
	—	—	—	—	—
	1	*0.4*	*0*	*0.0*	*0.0*
	254		*45*		*17.7*

EMBO Global Investigator Network

	Applications (total)	%	Awards (total)	%	Success rate (%)
	11	27.5	4	44.4	36.4
	29	72.5	5	55.6	17.2
	40		9		22.5
	14	22.6	1	11.1	7.1
	48	77.4	8	88.9	16.7
	62		9		14.5
	9	22.5	2	25.0	22.2
	31	77.5	6	75.0	19.4
	40		8		20.0
	15	34.9	2	25.0	13.3
	28	65.1	6	75.0	21.4
	—	—	—	—	—
	—	—	—	—	—
	43		8		18.6
	49	*26.5*	*9*	*26.5*	*18.4*
	136	*73.5*	*25*	*73.5*	*18.4*
	—	—	—	—	—
	—	—	—	—	—
	185		*34*		*18.4*

EMBO Membership (incl. Associate Members)

Year	Members (total)	Women (%)
2018	1810	19.8
2019	1840	20.5
2020	1877	21.6
2021	1915	22.2
2022	1964	22.9

EMBO Courses & Workshops[1]

Year	Female participants (%)	Female speakers (%)
2018	51	37
2019[2]	49	40
2020[3]	49	36
2021	50	46
2022[4]	53	41

1 Including: EMBO | EMBL Symposia, EMBO | FEBS Lecture Courses, EMBO Conference Series, EMBO Global Exchange Lecture Courses, EMBO Practical Courses, EMBO Workshops
2 2019 data represents 80% of the events
3 2020 data represents 63% of the events
4 2022 data represents 77% of the events (4 May 2023)

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