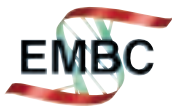


EMBO & EMBC annual report 2002



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Frank Gannon

Executive Director
European Molecular Biology
Organization (EMBO)

“Annual reports are a useful device in that they allow organizations to present their activities during the previous year and to chart their progress towards achieving their major goals.”

The aim of EMBO and the EMBC can be succinctly stated as ensuring that molecular biology in Europe is top class and that the scientific community has access to the best training and tools available worldwide. During the discussions amongst scientists in Europe in the 1960s, which led to the establishment of EMBO, there was much deliberation about the correct title for the organization before ‘Molecular Biology’ was agreed upon as the name and focus. Molecular biology was always understood by the EMBO founders and members as an approach to understanding biology at a molecular level. Today the term ‘the life sciences’ is frequently used to describe the niche that we work in. This has arisen from a broadening of the approaches used by biologists everywhere, such that molecular approaches are an inevitable component of their work.

Today scientists are increasingly interested in working on a truly European level. Promoting European science was the driving force behind the founding of EMBO and EMBC. Elsewhere in the 1960s, Europeanism was not a major theme. National interest prevailed. Nowadays, we increasingly consider our activities within the context of the European Research Area.

EMBO and the EMBC have always worked within this context. One new development during the past year was the debate about establishing a European Research Council (ERC). EMBO and the EMBC were actively involved in these discussions and have outlined a programme for the future directions of the EMBC, pointing to a specific role for the combined organizations in delivering that section of the ERC pertaining to the life sciences. This could happen internally, by simply expanding the EMBC's activities to include the provision of research grants, or within the context of a larger ERC. The discussions in 2003 on this topic will be of great interest. In view of the EMBC decision to renew and extend the agreement under which its 24 member states work, and the discussions on the future programme of the EMBC/EMBO, we feel that our organizations are well placed to make a decisive input into the debate about an ERC and, ultimately, into the delivery of a research support system that will positively influence the future of science in Europe.

A handwritten signature in black ink that reads 'Frank Gannon'. The signature is written in a cursive style with a large 'F' and 'G'.

EMBO was founded close to 40 years ago. It acts as the executive arm of the European Molecular Biology Conference (EMBC), an inter-governmental organization, to guarantee continued support for "projects and persons to be chosen regardless of nationality" and for activities that are "guided by scientific excellence coupled with usefulness to European Molecular Biology." For many years, EMBO's major role was purely academic. By providing fellowships to the best young scientists in Europe, it allowed them to work in leading laboratories world-wide. EMBO also established platforms for European scientists to exchange ideas and benefit from advanced training through workshops and practical courses. Today, the European Union has expanded these efforts by fostering links between academic science and industry, as well as encouraging innovation and new applications and providing grants and funding. But where is the slot for support purely on the basis of originality and scientific excellence, leading to unforeseeable biomedical and even commercial success in the future?

The EMBO annual report 2002 yet again provides insight into the new ideas, initiatives and programmes that are part of

EMBO's visionary and high-quality contributions to science. Frank Gannon and his truly outstanding team have continued to focus their efforts on identifying and training the future leaders of molecular biosciences in Europe through fellowships, workshops and new initiatives such as the EMBO Young Investigator Programme. Moreover, EMBO has succeeded in finding a new umbrella under which to publish 'The EMBO Journal' and 'EMBO reports', an action that should guarantee solid financial support. Frank has also provided yet another EMBO benchmark by steering the discussions on European funding of excellent and strictly knowledge-based science into the political arena, particularly as regards the proposed European Research Council.

As always, EMBO's success was guaranteed thanks to the fantastic support of its staff (see report), not to mention the efforts of our members serving on the various EMBO committees. Thank you all!



Herbert Jäckle

Chairman of
the EMBO Council

*"EMBO – the reliable source of
scientific excellence in Europe."*



Julio Celis

President of the
European Molecular Biology
Conference (EMBC)

EMBC/EMBO:**Shaping the European Research Area (ERA) in the life sciences**

Realising the need for more – and better – investment in European research, Commissioner Philippe Busquin proposed the concept of a European Research Area (ERA) at the Lisbon Summit of the European Union (EU) in 2000. This idea was endorsed by the heads of government present, with a pledge to make the EU the “most competitive and dynamic knowledge-based society in the world, capable of sustained economic growth providing more and better jobs and greater social cohesion.” They also agreed that “research activities at national and EU level must be better integrated and coordinated, in order to make them as efficient and innovative as possible to ensure that Europe offers attractive prospects to the best brains.” The EU’s Barcelona summit in 2002 resulted in a further pledge to increase R&D and innovation in the Union to approach three percent of the GDP by the year 2010. Clearly, there is a commitment to science at the highest political level today, as the ERA promises to integrate national and regional efforts in a way and on a scale not previously envisioned.

To date, the main instrument of the ERA has been the European Commission’s Framework Programmes (FPs) that were created to strengthen the competitiveness of European industry. Thanks to the Commissioner, FP 6 is an instrument that embraces scientific excellence, deals with fewer priority areas and is aimed at improving the structuring of European science.

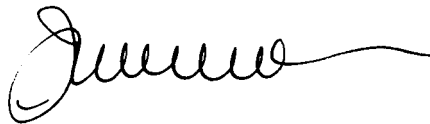
In order to realise the concept of an ERA and ensure that its benefits reach the community relatively soon, governments will need to inject additional funds into basic research. After all, behind every application, there lies a basic discovery. The idea of having a European Research Council (ERC) to address this problem is being discussed intensively in various circles. When Helge Sander, the Danish Minister of Science, Technology and Innovation, was chairman of the Council of Ministers, he appointed an expert group to look at concrete options for creating such a body, in cooperation with the relevant national and European research organizations. This group is expected to present its report on the various options by the end of 2003.

In the field of the life sciences, EMBC/EMBO should have a major role to play

within the ERA, and indeed, within a potential ERC, as a glance at their actions over the years will confirm. Based solely on scientific excellence, their initiatives have covered a wide range of activities aimed at promoting and integrating molecular and cellular biology in Europe. EMBO/EMBC have supported training through fellowships and courses, promoted mobility, endorsed the career of young scientists, stimulated the exchange of scientific information through publications and contributed significantly to filling the gap between science and society. Moreover, EMBO members have participated in reviews of molecular biology programmes in a number of European countries and have been instrumental in sustaining the high standards of the peer review system.

During 2003, the EMBC must approve its programme for the years 2004 – 2013. The portfolio of activities is being carefully prepared, with both the ERA and the opinion of the scientific community in mind. The increase in funding required to keep European molecular biology at the leading edge is relatively modest compared to that needed in other disciplines. We must therefore make every

effort to urge governments to take the necessary steps. The window of opportunity is narrow and, as both the United States and Japan are investing heavily in this area, we risk being left behind if we fail to react in time.

A handwritten signature in black ink, appearing to be 'J. Drenth', written in a cursive style.



...nce the big
...le help



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EMBO & EMBC **present & past**

aims

timeline & brief history

EMBO & EMBC actions in 2002

EMBO's aim is to promote biosciences throughout Europe.
It has done this very
successfully over a period of nearly 40 years.

EMBO

The European Molecular Biology Organization (EMBO) promotes biosciences in Europe. It does this through a number of activities, e.g. by organizing courses and workshops, providing fellowships for long-term and short-term visits to other laboratories and highlighting young independent researchers of high quality. It supports the scientific community through the publication of two scientific journals and by providing an electronic information platform. Furthermore, EMBO fosters an open dialogue between scientists and non-scientists. These activities encourage the communication of scientific expertise and make Europe attractive as a location for scientific research.

Today, EMBO consists of over one thousand members, who are well-known scientists from EMBC member states, and almost sixty associated members world-wide. They include more than 30 Nobel Prize laureates, among them Sydney Brenner, John E. Sulston and Kurt Wüthrich, who were awarded the prize in 2002. A staff of about 30 persons coordinates the

organization's actions at the EMBO headquarters on the EMBL campus in Heidelberg.

EMBO's activities fall into two different categories: those that are part of the General Programme funded by the EMBC, and those that have been initiated and developed by EMBO independently. Each of these is described in different sections of this report.

EMBC

24 member states (see box) fund most of EMBO's actions. Together, these countries form the inter-governmental organization called the European Molecular Biology Conference (EMBC).

This organization was established to build on and consolidate the work that EMBO initiated in the 1960s. It takes a pan-European view of research (expanded to include some neighbouring countries) and supports a very broad range of life sciences through the programmes that bear the EMBO name. The need to exchange expertise between countries becomes more and more evident with the increasing importance of the life sciences and their impact on our

daily life. Scientific excellence is the basis for all EMBC supported activities.

Of particular significance for science in Europe today is the fact that the EMBC includes not only the EU countries, but also many of the accession countries and those with links to the EU that permit participation in the EC Framework Programmes. The relationship between EMBO and EMBC is very solid, and has worked effectively since 1970. The EMBC monitors the actions that EMBO performs on its behalf, but does not interfere in the execution of the programmes. This arrangement has worked well, since it is based on the trust that has been well established between the scientific communities represented by EMBO and the member states acting through the EMBC.

EMBL

EMBL, the European Molecular Biology Laboratory, was established by EMBO as a special project of the EMBC and became an independent entity in 1974. It is also supported by a subset of the EMBC member states and provides further input into the overall goals of the organizations, i.e. by improving the quali-

ty of science based on molecular biology throughout Europe via high-quality laboratories. The EMBL is independent from the EMBC and EMBO, but all three act in a mutually supportive manner, both at a strategic and a practical level. For full details about the EMBL, please see the EMBL Annual Report or visit the institute's website at: www.embl-heidelberg.de.

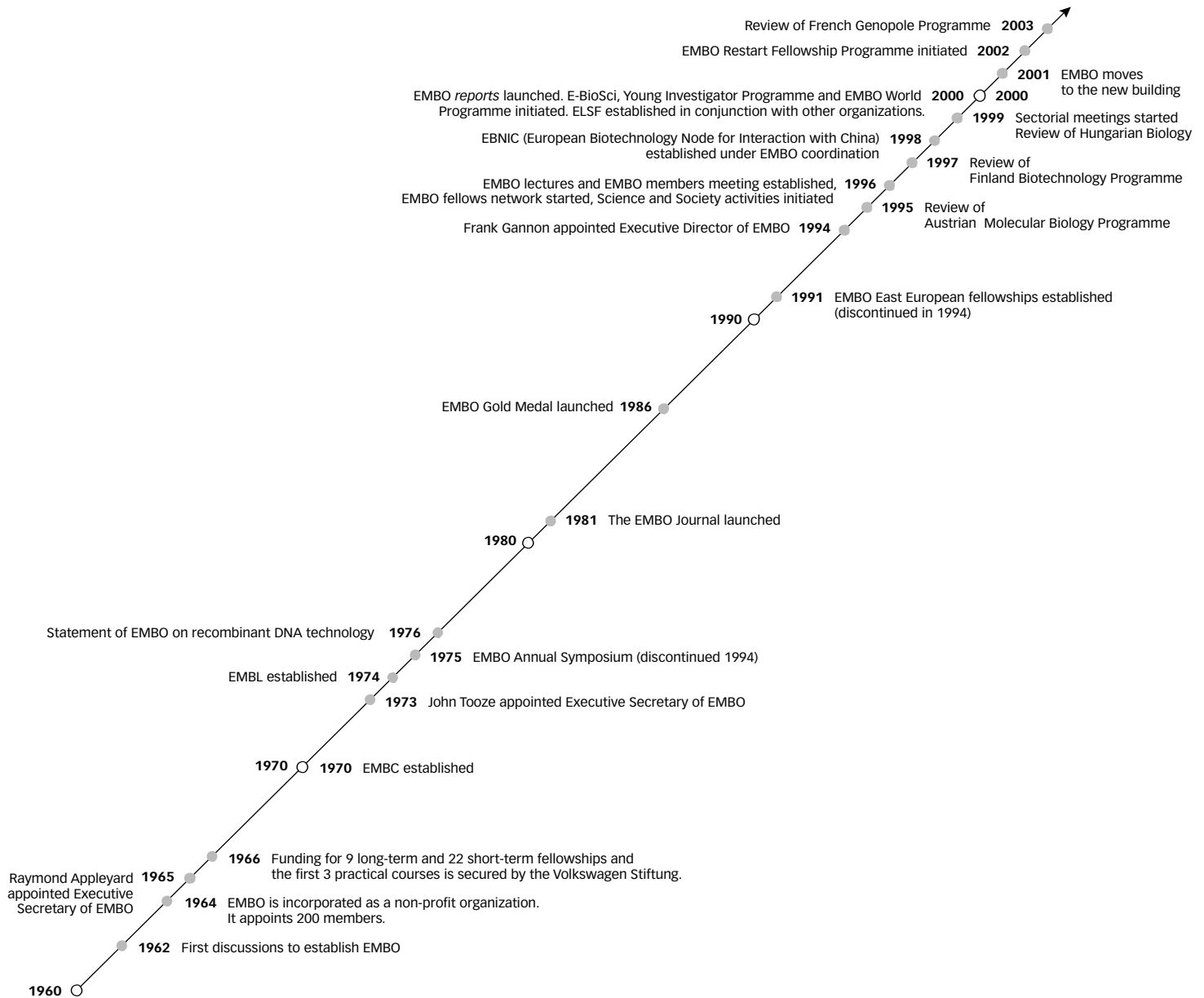
EMBC member states

The following states make up the European Molecular Biology Conference (EMBC):

Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, The Netherlands, Norway, Poland, Portugal, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.

Special provision is also made for applications to EMBO Programmes involving Cyprus.

EMBO timeline & history



In 1963 a group of leading European biologists met in Ravello, Italy, to found the European Molecular Biology Organization (EMBO). This followed on from two meetings in 1962 and 1963 at CERN in Geneva. As a result of these meetings, John Kendrew and Conrad Waddington prepared a document suggesting that this organization (EMBO) should have two aims: establishing a central international molecular biology laboratory, and designing a programme of network activities that would enhance the interactions of different laboratories throughout Europe. To pursue these goals, the newly established EMBO Council, chaired by Max Perutz, set up two committees: the Laboratory Committee, chaired by John Kendrew, and the Federation Committee, chaired by Alfredo Buzzatti-Traverso. Ultimately, the work of the Laboratory Committee led to the establishment of the EMBO laboratory which later became the EMBL. The concepts drafted by the Federation Committee became the motor for the EMBO programme of fellowships, courses and workshops. At the same meeting, Max Perutz was elected as the first chairman of EMBO and John Kendrew became the first Secretary General.

In 1964, EMBO was incorporated officially as an association under Swiss law. To enable its activities to get underway, EMBO applied for funding from the newly established Volkswagen Foundation, which was very generous in providing support for the networking activities that EMBO immediately initiated. The EMBO Council then worked to convince governments to provide more long-term support for EMBO's dual objectives. It quickly succeeded: in 1970, 14 countries established the European Molecular Biology Conference (EMBC). The EMBC adapted the activities that EMBO had initiated with the Volkswagen funding and these became known as the General Programme of the EMBC. They continue today and are expanding. The proposal from the EMBO Council to establish a European laboratory was also soon accepted by the EMBC. In 1974, a subset of ten member states formed a second intergovernmental body (EMBL) and the research institute subsequently came into existence with independent support.

Since 1970, the number of member states in the EMBC has continued to grow and today totals 24 countries.

We are currently preparing further documentation on the history of EMBO. It will be available for the 40th anniversary celebration of the formal founding of EMBO in 2004.

chairs of the EMBO committees

Course Committee	Pascale Cossart
Fellowship Committee	Daniela Rhodes
Science & Society Committee	Denise Barlow
Membership & Publication Committee	Cesare Montecucco
Electronic Information Committee	Glauco Tocchini-Valentini
Young Investigator Programme Committee	Jean-David Rochaix

EMBO actions 2002

Elsewhere in this booklet, the specific actions taken by EMBO are reported upon. In addition to these, the following events were of importance for the organization in 2002:

- At the first meeting of the EMBO Council in June, the document prepared for the prolongation of the EMBC Agreement ('Building on a record of achievement; planning document on the future of the EMBC/EMBO') was analysed in detail. The Council made some specific suggestions and noted its approval of the content and vision of the document. In passing, it also confirmed that EMBO had the capacity to fulfil all of the plans envisaged in the document.
- The EMBO Council also discussed the possible change of publisher for both 'The EMBO Journal' and 'EMBO reports'. It had previously established a working party to monitor and participate in this process. The working party reported back to the Council and outlined its preferences. Following discussion and subsequent negotia-

tions, the EMBO Council ratified the decision to transfer 'EMBO reports' to the Nature Publishing Group (NPG) on 1 January 2003, with transfer of 'The EMBO Journal' to follow in January 2004.

- The September meeting of the EMBO Council resulted in a further series of decisions:
 - Paul Nurse was elected as Chair of the EMBO Council for 2003 and Susan Gasser as Vice-Chair.
 - Susan Gasser, Paul Nurse and Giora Simchen were re-elected to the EMBO Council, while Margaret Buckingham (France) and Maciej Zyllicz (Poland) were co-opted as new members to replace Eduardo Boncinelli and François Cuzin.
 - Following standard procedure, the EMBO Council proposed three scientists as potential members of the EMBL Scientific Advisory Committee (SAC). The final decision on the SAC members for the various sections rests with the EMBL Council.
 - The Council decided that the EMBO members' meeting for 2003 should take place in Ireland.

- The Advisory Editorial Boards for 'The EMBO Journal' and 'EMBO reports' in 2003 were selected.
- The Council reiterated its strong support for an extension of the long-term fellowships to a three-year postdoctoral period, subject to extra funding being obtained from the EMBC.
- Angela Krämer was selected to replace Costa Georgopoulos on the Fellowship Committee.
- Andreas Aguilera, Ari Helenius and Dino Moras were selected as new members of the Membership and Publication Committee, replacing Carlos Gancedo, Robert Huber and Howard Riezman.
- Pico Caroni, Batsheva Kerem and Peter Weisbeek were selected as members of the Course Committee. They replace Ton Bisseling, Martin Schwab and Yosef Yarden.
- Lauri Aaltonen and Matthias Hentze were selected as new members of the Science and Society Committee to replace Niels Filil and Fotis Kafatos.
- Reacting to a suggestion by Spanish EMBO members, the Council agreed that it would be appropriate to provide support for national meetings organized by EMBO members.
- Following the election, and after consideration of gaps in the membership, 31 scientists were made members of EMBO (see pp.58 – 62).
- The membership election resulted in Stanley Falkow, Stuard Orkin and Elizabeth Robertson being added to the list of associate members (see p. 62).
- The Council accepted the agreement that had been drawn up between EMBO and the Chinese Academy of Science, thereby paving the way for the Academy to become the first cooperating organization with EMBO.
- The Council deemed it inappropriate for EMBO to join another organization (in this case, the European Plant Science Organization). Instead, EMBO should employ its standard mechanisms to provide support as required.
- The EMBO budget for 2003 was agreed upon, together with some technical changes to the existing



Bernhard Huber (right) and Bärbel Traut-Laur are responsible for EMBO finances.

provisions for some of the organization's financial reserves.

- The Council was informed of the on-going review of the French Genopole programme that would be completed in early 2003.
- There was extensive discussion on the subject of a European Research Council (ERC). The EMBO Council supported the direction taken by the Executive Director towards achieving the goal of a European Research Council and in cooperating with others who were working in that direction.
- EMBO continued to support the activities of The European Life Science Forum (ELSF) in 2002. See website: www.elsf.org

EMBC actions 2002

In 2002, the EMBC was very active, discussing the directions it would take in the future and putting in place plans for the next ten years. Two formal sessions of the Conference were convened in July and November. In addition, meetings of the EMBC Strategic Working Party were held on three occasions, while the Finance Advisory Group met once.

The following points summarise actions specific to the EMBC in 2002 that are not reported elsewhere in this document:

- The member states unanimously approved the formal prolongation of the EMBC Agreement, such that it extends to April 2013, thereby providing a stable context for the future programme to be delivered by EMBO.
- The EMBC officers for 2002 were:

Secretary General –

Frank Gannon

President –

Julio Celis (Denmark)

Vice Presidents –

Reinhard Lührmann (Germany)

Vaclav Paces (Czech Republic)

Chair of the

Finance Advisory Group –

David Smith (United Kingdom)

Vice Chair of the

Finance Advisory Group –

Brita Beije (Sweden)

- An extensive document on the future directions of the EMBC was discussed

and refined at both meetings of the Conference. It is available at www.embo.org/publications/organisation/embc_plan.pdf This is a strategic document and decisions on the financial requirements of delivering such a programme will be a subject for discussion in 2003.

- The external auditors from Sweden approved the accounts of the EMBC and EMBO.
- Discussions on a possible headquarters agreement for the EMBC continued throughout 2002 without any conclusion being reached on this matter.
- The Conference expressed its disappointment at the refusal of EIROforum, the new intergovernmental scientific research organization, to accept the EMBC as a partner.
- The delegates unanimously approved the budget for 2003 and the execution of the budget for 2002 was reported upon at both sessions of the Conference. A full description of the actions supported by the EMBC is presented in this annual report.
- There was an initial discussion on whether to include Science and Society in the General Programme of the EMBC. A decision on this was postponed until 2003.
- A process for quality audits of EMBO's actions was agreed upon and put in place, with the short-term fellowships being selected as the first topic for analysis in 2003.
- The possibility of EMBC/EMBO providing research grants in the future was discussed at length. As this was considered a possible topic for a special project, a preparatory group was established to consider the implications. It is due to report to the EMBC in 2003.



Jennifer Schulze-Eyþing (left) is responsible for all issues pertaining to EMBO members and is the administrator for the EMBO Council. Gitta Bourke (right) is the administrator for the EMBC.



joint EMBO & EMBC activities

fellowship programme

fellows network

courses & workshops programme

young investigator programme

electronic information programme

“EMBO equals excellence.”

It is a measure of the foresight of EMBO’s founders that the activities carried out today have not changed significantly from those initially envisaged. The services to the scientific community described on the following pages are defined as the General Programme, the funds for which are provided by the EMBC.

contact

Jan Taplick
Programme Manager

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Liselott Ahlgren
Administrator

short-term fellowships:
Françoise De Grasse
Agnès Visser-de Matteis
Administrators

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facilitating exchange & mobility

Since 1966, thousands of young scientists have benefited from the EMBO Fellowship Programme. The fellowships provide an ideal training opportunity for young researchers in and from Europe. They also promote movement between European countries – especially the EMBC member states – and, when justified, elsewhere in the world.

From left to right: Agnès Visser-de Matteis, Liselott Ahlgren, Jan Taplick and Françoise De Grasse took care of EMBO fellowships in 2002.



long-term fellowships

EMBO long-term fellowships support scientists who wish to move to a different country for their postdoctoral training for a period of up to two years. Each year there are two rounds of applications with closing dates on February 15 and August 15. In 2002, EMBO observed a significant increase in applications for long-term fellowships. Our office received 789 applications, which means an increase of 22 percent compared to the previous year, and the Fellowship Committee selected 178 applications for funding, which correlates to a success rate of 22 percent. Most successful applicants moved between laboratories within the EMBC member states and approximately one third of the fellows went for postdoctoral training outside Europe, mainly to the USA and Canada. EMBO long-term fellowships are also available for applicants from all nations worldwide if they wish to join a laboratory within the EMBC member states. This year, applicants from Argentina, Canada, Japan and the USA were selected for funding. A complete list of the successful applicants and statistics related to long-term fellowships is provided in the appendix (see pp. 68–83).

A selection committee of ten EMBO members ensures the quality of the fellows (see appendix). Applications are evaluated independently by each member of the committee. Another important aspect, both for the applicants and for the selection committee, is the interview that is included in the evaluation procedure. Almost every applicant is interviewed by an EMBO member with expertise in the field of research proposed. Each year, several hundred EMBO members respond to the request to act as interviewers, thereby contributing to a fair and expert assessment of candidates for long-term fellowships.

Short-term fellowships

These fellowships are open to applicants at all times and allow exchanges between laboratories in the member states for up to three months. They are particularly useful for initiating collaborations between laboratories and for the transfer of knowledge, techniques and practical research expertise within Europe. In many cases, a short-term fellowship assures the successful start or completion of a project because some experiments could not have been performed in the home laboratory. EMBO

welcomes applications for short-term fellowships from scientists at all stages of their career. All short-term fellowship applications are evaluated by two expert referees who are EMBO members. As of 2003, EMBO young investigators will also serve as referees, as this fosters their sense of being part of the 'EMBO community'. In 2002, the programme attracted 17 percent more applications than in the previous year and 170 short-term fellowships were awarded. Further details can be found in the appendix (see pp. 84–99).

applications and awards of EMBO fellowships in 2002

short-term fellowships 2002

applications	252
--------------	-----

awarded	170
---------	-----

long-term fellowships 2002

applications	789
--------------	-----

awarded	178
---------	-----

The fellows network aims to foster the sense of community amongst the best young molecular biologists in Europe and to maintain contacts between EMBO and its fellows after they complete their EMBO long-term fellowship.

Postdoctoral training represents a crucial stage in the career of a life scientist. The fellow works increasingly independently on projects based on his or her ideas, takes responsibility for teaching graduate students and starts to build up collaborations. Most EMBO fellows continue in science by establishing their own research group.

In order to strengthen interactions between this group of researchers, EMBO organizes a fellows meeting in Heidelberg each year. This tradition goes back to 1997 and the concept of the meeting has proved to be a great success. Three years after starting their research project, the fellows are invited to meet at EMBO in Heidelberg. The success of the EMBO fellows meeting is also reflected by the fact that many of them also attend meetings in subsequent years. During the meetings, the fellows present their research results in talks or poster ses-

sions and build up friendships and collaborations. Each session of the meeting is chaired by an EMBO member, who also gives a talk entitled 'My scientific biography and science'. In addition to the scientific presentations and special lectures, the meeting enables the fellows to discuss a variety of topics such as fellowship conditions, women in science, academia and industry, or science and society.

In 2002, the EMBO fellows meeting again included a media workshop and took place on April 13–16, with 108 fellows attending.

contact

Jan Taplick
Programme Manager
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Administrator
fellnet@embo.org

The programme of the 2002 fellows meeting included:

special lectures:

Stella Hurtley, Editor of SCIENCE
Science publishing and publishing in SCIENCE

Gerlind Wallon, EMBO
Women in science; the glass ceiling

Scientific autobiographies from EMBO members:

Riccardo Cortese, Italy

Victor de Lorenzo, Spain

Maria Leptin, Germany

Ian Mattaj, EMBL (Heidelberg)

Renée Schroeder, Austria



Participants of the EMBO fellows meeting 2002

The Courses and Workshops Programme has proved to be an essential part of EMBO activities since its establishment in the sixties. Through this programme, funds are provided annually for practical courses, lecture courses, workshops and conferences. The annual closing dates for applications are February 1 and August 1.

Practical Courses

Up to 20 scientists participate in these courses that focus on cutting-edge techniques. Hence, the practical courses act as an early catalyst for transferring new methods to a broad number of European laboratories. Some 350 scientists from all over Europe attended EMBO's practical courses in 2002.

Lecture Courses

This second type of course is designed for roughly 100 participants and caters to students in the early stages of their careers. Each course comprises a series of lectures held over a period of several days. Lecture courses provide up-to-date information on developments in diverse topics and are given by experts in their field. Many of the lecture courses

are held in peripheral and new member states to provide a stimulus to the local scientific community.

Workshops

The workshops provide an opportunity for up to 120 scientists from multidisciplinary fields to engage in high-level discussions and exchange results. In 2002, they attracted over 1300 participants.

Conferences

These larger-type workshops with over 120 participants are useful for establishing new contacts and help to develop collaborative networks throughout Europe. The conferences focus on topics of major importance to the scientific community in Europe.

Each year EMBO sponsors an average of twenty practical courses and three lecture courses along with twenty workshops and two conferences (see appendix pp. 106–109 & 120–123). In 2002, a total of 2700 participants, teachers and invited speakers attended these events, thus helping to broaden the network of interactions between scientists in the area of the biosciences.

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Together with the EMBO fellowships, EMBO courses and workshops provide a good training opportunity for young scientists.



The EMBO Young Investigator Programme supports scientists who are within the first three years of having established their own independent laboratories. Membership in the programme gives the selected young scientists the added advantage of extra exposure through recognition by EMBO.

Since its start in 2000, the stature and content of the EMBO Young Investigator Programme has grown very rapidly and it is now recognised as a significant symbol of excellence for young researchers in Europe. In 2002, there were 169 applicants from 19 countries. In October, 23 new young investigators were selected, bringing the total number of EMBO young investigators to 101, with 17 member states being represented. For a catalogue on these scientists, please contact the EMBO Communication Office or visit:

www.embo.org/publications/print.html

The Howard Hughes Medical Institute (HHMI) joined EMBO in supporting young scientists from EMBC Central European member states in March 2002. The HHMI provides financial support, totalling US \$ 500 000 per year, to selected scientists

from the Czech Republic, Hungary and Poland for the three-year membership in the programme. As of 2003, the programme will include three EMBO/HHMI young investigators and two EMBO/HHMI scientists.

A new initiative in 2002 was a PhD course organized for September by members of the programme and the EMBO Young Investigator Office. 36 young investigator PhD students participated in this one-week course that took place at the EMBL and covered a wide range of topics in biology. Young investigators and scientists from the EMBL and other institutions taught the course, which was supported in part by a grant from the Serono Foundation. An equivalent course for 2003 has already been announced and more information can be found at www.embo.org/projects/yip/yip_phd_course_03.html.

Starting in 2003, EMBO intends to expand the annual young investigator meeting to include mini-symposia on areas that are of interest to the young investigators. The 2003 meeting and the associated mini-symposium on fluorescence microscopy will take place at the EMBL in Heidelberg.

contact

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The networking activities of the EMBO Young Investigator Programme have been expanded to include:

- **an annual meeting**
- **access to EMBL core facilities**
- **EMBO mentorship:**
an EMBO member acts as a mentor to the young investigator
- **EMBO young investigator lectures at international meetings**
- **networking:** financial support of joint group meetings
- **PhD course:**
a special course organized by EMBO young investigators for their students
- **increased visibility:**
a booklet with profiles of the young investigators is published and sent to national and international grants agencies, institutes and scientists.



52 young investigators attended the second EMBO young investigator meeting in July 2002.

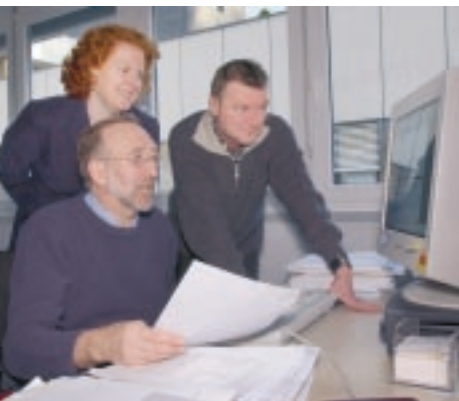
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Les Grivell (seated), Anne Seller
and Ole Hansen (right) are
EMBO's contacts for the Electronic
Information Programme.



The EMBC/EMBO Electronic Information Programme consists of the E-BioSci information platform and the ORIEL project. The latter is the research arm of E-BioSci. It focuses on development of tools to help research communities to manage complex, multimedia datasets. Both E-BioSci and ORIEL are supported by grants from the European Commission.

Discovery tool

EMBO first developed the concept of E-BioSci in 1999, after a series of exchanges and consultations with senior scientists in the US and with a large number of interested parties within Europe. As an information platform, E-BioSci aims to be a discovery tool that provides effective user access to different types of scientific information, including journal full text and molecular, genomic and multi-dimensional image databases.

In 2002, activities focussed mainly on the development and testing of components that form part of a first E-BioSci prototype. This, although expressly limited in content, has been designed to demonstrate features that will distinguish

E-BioSci from a number of other literature search or information portals. These features include intelligent searching based on full text, document-neighbouring based on semantic content, cross-repository searching, cross-language searching and gene symbol recognition in text. Their implementation has been facilitated by a productive collaboration with the Dutch information retrieval company, Collexis b.v., whose abstraction and search engines employ thesaurus-based 'conceptual fingerprints' to characterize and compare all types of text.

The first prototype was realized according to schedule in the early autumn of 2002 and it is currently undergoing initial testing by the partners and other selected users. Additional test users will be recruited in the course of 2003 for evaluation in the first of several steps in an iterative cycle of development and evaluation phases.

EMBO's partners in E-BioSci combine the skills and content already present, or in the course of being established, in research institutions at various locations in Europe. Current plans for technical implementation focus on the estab-

lishment of an extensible federated network of resources, capable of communication via a common, open source protocol. This network will offer multiple entry points for end users, allowing them to search and retrieve information held anywhere across it, using different European language formats for their queries and recovering documents and files in any of these languages.

Exploring the information landscape

Given the complexity of the biological knowledge base, full implementation of the E-BioSci project will depend on the solution of outstanding, complex issues that will allow for more effective integration of bibliographic with sequence and sequence-related information and with other media. The ORIEL project aims to provide such solutions. The partners will work together with other information providers to devise and promote protocols that permit effective data retrieval and representation, where possible through the construction of interfaces that meet the needs of individual users. It is expected that many of these tools will be generic in nature, with potential for application in other data-

intensive areas. The E-BioSci platform will provide rigorous and systematic testing and evaluation of individual ORIEL components by different types of users with a wide range of demands and expectations.

Dealing with the data deluge

A major event in 2002 was the first in a series of E-BioSci/ORIEL annual workshops. Held close to Heidelberg, the meeting brought together experts in the areas of database interoperability, ontology-building, information retrieval from text and biological image databases. The 2003 meeting entitled 'Dealing with the data deluge' is scheduled for September 2 – 5 and will be held in Varenna (Italy).

E-BioSci partners

EMBO (coordination)	
CINES	France
CSIC	Spain
DIMDI	Germany
EBI-EMBL	United Kingdom
EDINA	United Kingdom
ingenta plc	United Kingdom
INIST	France

ORIEL partners

EMBO (coordination)	
CINES	France
CNR-IBC	Italy
CNR-ITB	Italy
CSIC	Spain
EBI-EMBL	United Kingdom
ICGEB	Italy
IGH	France
ingenta plc	United Kingdom
INRIA	France
LIRMM	France
University of Montpellier	France
University of Oxford	United Kingdom

The EMBO Journal

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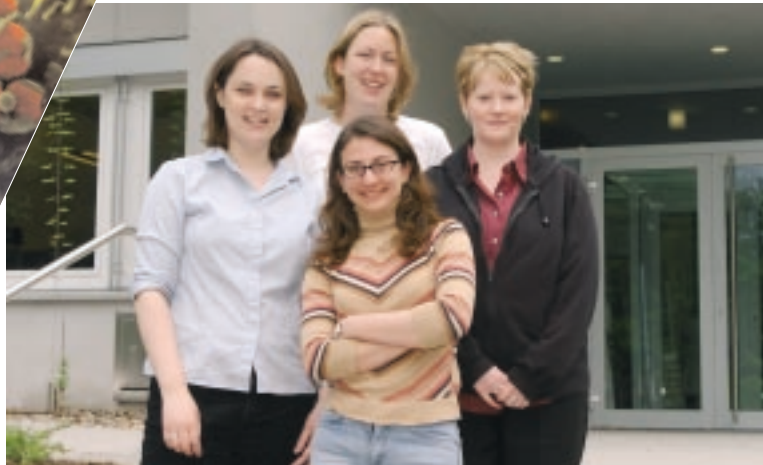
EMBO additional activities

The EMBO Journal
EMBO reports
science & society programme
restart programme
EMBO gold medal
EMBO communication award
lectures
sectoral meetings
world programme
press & public relations

EMBO – a scientifically driven organization. EMBO’s activities fall into two categories: those which are part of the General Programme, supported by the EMBC, and those initiated and developed by EMBO as an independent organization. These additional activities are funded by the profits from ‘The EMBO Journal’.



Astrid Lunkes (left), Volker Wiersdorff, Conny Lee and Valerie Ferrier (right) work as editors for 'The EMBO Journal' in Heidelberg. Conny joined the team early in 2003.



Sara Quirk (left), Claire Johnstone (back) Sophia Katsogiannos (front) and Karen Thompson (right) are the editorial assistants for 'The EMBO Journal'.

Since its first issue appeared in 1982, 'The EMBO Journal' has established itself over the last two decades as one of the leading international journals in the life sciences. Available both in print and online, the journal covers all aspects of molecular biology, and the selection of papers is based purely on scientific merit. Its current impact factor is 12.459.

Early in 2002, it was decided that the two editorial offices of 'The EMBO Journal', the one in London headed by John Tooze and the other in Heidelberg under Iain Mattaj, will be merged into one main office located in Heidelberg. This process will be completed in 2003, when John Tooze officially retires. During the transition period in 2002, the Heidelberg office received approximately 50 percent of the London submissions, thus handling 2093 of a total 2625 manuscripts in 2002. Submissions in Heidelberg also increased after a recent call for electronic (PDF) submissions, which now account for roughly 50 percent of the manuscripts received.

Although European in origin, 'The EMBO Journal' is highly appreciated by scientists throughout the world. This is re-

flected not only in the similar submission rates from Europe and the non-European continents (52 and 48 percent, respectively), but also by the fact that more than 5000 leading scientists throughout the world provide the editors with expert refereeing, thus ensuring the high quality of the articles published in 'The EMBO Journal'. 51 percent of the referees are based in Europe and 49 percent in non-European countries. In addition, the editors are supported in the selection of papers by an active Advisory Editorial Board composed of both European and non-European (associate) EMBO members.

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Executive Editor

John Tooze, Cancer Research UK
Executive Editor

Herbert Jäckle
Editor-in-Chief

Frank Gannon
Associate Editor

Valerie Ferrier
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Astrid Lunkes
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'EMBO *reports*' is a print and online publication dedicated to providing sharply focussed and rapidly published short papers and review articles in all areas of molecular biology, as well as publishing commentaries on how progress in the life sciences is affecting society and vice versa.

Launched in July 2000 to complement the well-established 'EMBO Journal', 'EMBO *reports*' is rapidly becoming a unique and valuable contribution to the scientific literature. 2002 marked an important milestone in the journal's history: the announcement of its first impact factor of 6.046. Based on the number of citations that were made to articles published in volume 1 (July – December 2000) during 2000 and 2001, this number reflects the high quality of the journal's content.

Another important event for 'EMBO *reports*' in 2002 was the decision – by a special committee appointed to evaluate the future of both 'EMBO *reports*' and 'The EMBO Journal' – to change to a new publisher as of 2003. This decision was motivated by the wish to reach the broadest audience possible in the

current age of advanced electronic media and the desire to maintain a strong presence as a print journal. This goal should be reached through the move to Nature Publishing Group (NPG), which will ensure increased worldwide visibility, not only through expanded marketing efforts, but also, and more importantly, through more sophisticated cross-referencing of 'EMBO *reports*' articles across the extensive NPG web pages.

What's in 'EMBO *reports*'?

'EMBO *reports*' complements its sister publication, 'The EMBO Journal', by providing a variety of short formats for coverage of topics related to molecular biology. Subdivided into three sections, the journal is designed to inform not only the molecular biologist, but all those interested in participating in the dialogue about the relationship between science and society.

The *Science & Society* section features essays and articles that cover the realms beyond scientific research. The articles comment on and analyse how politics, the financial world and society affect the environment in which science is done, as well as the consequences of

biological research for society. Article formats include:

- **Editorials**
- **Correspondence**
- **Viewpoints** – what the experts think
- **Analysis** – the facts, from a journalistic perspective
- **Interviews** – with those shaping science
- **Book reviews**

The **Reviews** section contains articles that attempt to distil the vast amounts of scientific information that are accumulating in the literature into concise chunks that can be easily digested. These articles are written by leading experts in the field and presented in four formats:

- **Reviews** – concise updates on rapidly changing fields
- **Concepts** – reviews with an eye to the future

- **Meeting reports** – the latest developments presented at conferences
- **Literature reports** – highlighting important papers

The **Scientific Reports** section contains sharply focussed primary research papers that provide major new insights into some aspect of molecular biology. Rapid, high-quality peer review of these articles by experts throughout the world keeps a broad readership abreast of the latest developments.



The editorial team in Heidelberg; from left to right: Christine Blaumueller, Holger Breithaupt, Susan Owens, Caroline Simpson and Marlies Otter-Nilsson



Andrew Moore and Sandra Bendiscioli
organize EMBO's
Science & Society activities.

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Via its Science & Society Programme, EMBO strives for better communication between the general public and scientists on the subject of modern biology and its impact on today's society. Teachers are an increasingly important target group. So, too, are young scientists, whose needs are addressed by activities designed to improve their communication skills – and reward them for their efforts into the bargain.

2002 saw increasing activities in the area of education. 100 teachers from 14 European countries attended the first EMBO international practical workshop for biology teachers (see box for link to report). Building on this initiative, EMBO applied for EC project funding together with EMBL and the European Federation of Biotechnology. The project, coordinated by EMBO, includes teachers workshops in nine European locations, a teaching resource centre and archive, and a training facility. EMBO further contributed to the international platform for improving biology education by hosting a meeting of experts in November 2002. EMBO's growing experience in education also makes

it an ideal consultant in the 'LifeLab' project to develop a virtual molecular biology laboratory. The project began in 2002 and is funded by the German Federal Ministry of Education and Research (BMBF).

EMBO/EMBL collaboration continued in 2002 with the third joint Science & Society Conference (see box for link). This generated an animated debate on the causes and prevention of infectious diseases, their social implications and potential uses in biological warfare.

Ronald Plasterk won the first EMBO Award for Communication in the Life Sciences in 2002 (see page 41). The award is to continue in 2003. Also to continue is the writing competition for EMBO fellows and young investigators. The winning entry in 2002 was Gaspar Jekely's Greek dialogue, 'The brain developing genes', in which a master explains to his pupil why it is that chimps and humans are so different, despite being 98.7 percent identical at the genetic level. The award of 1 500 euros was made in Oslo in October at the science and society meeting, 'From Biotech to Shopping Basket: genetic modification and global food produc-

tion'. This meeting generated a lively discussion of the possible benefits and drawbacks of GM foods for consumer and environment.

Communication via the media was a subject revisited at the 2nd Fellows Media Workshop in April, featuring talks by journalists, on-the-spot interviews and examples of good and bad communication (see box for link).

In September, communication, generic skills and the reform of academic structures were discussed in a special meeting on careers in the life sciences organized by EMBO and the European Life Sciences Forum (ELSF). A report on this topic will appear in 2003.

In November 2002, EMBO collaborated with the Graphic Science Unit (University of the West of England, Bristol, UK) in a poster campaign funded by the EU, which brightened the buses and trams of 15 European capitals. 'Science on the Buses' was aimed at stimulating public interest in the role of science in food production, human health, transport and communication. Posters were also distributed to schools across Europe.

Promoting internationalism in scientific careers with a personal touch, EMBO won an EC contract in 2002 to set up the 'Life Sciences Mobility Consultant' service (LSMC) to gather information on transnational funding sources, and provide guidance to scientists wishing to move to or between European laboratories.

The EMBO Science & Society Programme has matured to provide a range of activities that are well established on the European events calendar, with special emphasis on communication and education, while addressing the needs of scientists at all stages of their career.



Teachers experimenting at the first EMBO international workshop for science teachers in July 2002.

International practical workshop for biology teachers 2002:

www.embo.org/projects/scisoc/download/TWReport11NovP2.pdf

3rd joint Science & Society Conference:

www.embl-heidelberg.de/Conferences/SciSoc02/index.html

Writing prize 2002: www.embo.org/projects/scisoc/winner_writing_prize.html

From Biotech to Shopping Basket:

www.embo.org/projects/scisoc/activities.html

Science on the Buses campaign: www.scibus.com

2nd Fellows Media Workshop 2002:

www.embo.org/projects/fellowsnet/meetings/media02.html

The Restart Programme offers two-year fellowships for scientists who have taken a break in their research careers for child care. The aim is to get these scientists back on track for a career in science. The fellowship is explicitly not restricted to women. EMBO will, however, continue to provide activities that address topics of interest for women in the life sciences.

The EMBO meeting on 'The Glass Ceiling for Women in the Life Sciences' in June 2001 led to the publication of an EMBO Position Paper (December 2001) and a booklet in 2002 on the situation of wo-

men in the life sciences. Both publications summarise the reasons that led to the current under-representation and point to measures that would improve women's chances of success.

Arising from the recommendations made at the meeting, EMBO has taken the initiative of creating restart fellowships for scientists who have taken a break in their research careers for child care. The restart fellowship will relieve returning scientists of the pressure of having to apply to fellowship schemes where they are in competition with others who have had no interruption in their careers. The EMBO fellowship will help the selected scientists to return to or stay in science and prepare them for a career, be it in academia, education, administration or publishing.

The programme had its first deadline on August 15, 2002. In November, six female scientists from four countries were awarded a two-year fellowship. All fellows have taken a break of at least a year to have children and are restarting lab work in the course of 2003. The fellows were not required to move to another country in order to be eligible.



Gerlind Wallon (left) and Kim Piggott (right) look after the restart fellows and the young investigators.

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The restart fellowship is but one action in this initiative to support women in the life sciences. EMBO is also committed to monitoring the participation of women in EMBO activities, namely within the membership and selection committees as well as in the fellowships, courses and workshops (see pp. 104–105).

Each EMBO committee receives a report on female participation in their particular programme, and although EMBO does not deviate from decisions made on quality, it ensures that members of the scientific community remain well aware of the general under-representation of women in the field.



In February 2002, a booklet on the situation of women in the life sciences was published by EMBO.

EMBO restart fellowships 2002

name	working in	topic
Katja Arndt	Germany	Antiparallel coiled coils
Barbara Belletti	Italy	IGF-I receptor in sarcoma cells
Judit Biro	UK	Haematopoietic stem cells
Julie King	UK	Plant genome analysis
Susanne Müller	Italy	Role of HMGB1 in inflammation
Ildiko Unk	Hungary	DNA damage bypass



EMBO gold medal 2002

Amanda Fisher, group head at the MRC Clinical Science Centre, London (UK), was this year's winner of the EMBO gold medal.

This prestigious prize was awarded by EMBO in recognition of her outstanding work on nuclear organization and gene expression as well as for her research on the molecular characterization of the AIDS virus (HIV). Amanda Fisher received the gold medal award at the EMBO New Members Meeting 'Frontiers of Molecular Biology' in Oslo on October 12, 2002.

The EMBO Gold Medal highlights the quality of European molecular biology performed by young research scientists and is awarded annually to a scientist who is under 40 years of age. The medal has been awarded to many illustrious recipients in the past. It brings the high-quality work of young European scientists to the attention of a worldwide audience. In honouring the awardee as a role model for scientists in Europe, the EMBO gold medal is an indicator of the standards that are achieved by European scientists.



Amanda Fisher, the winner of the EMBO Gold Medal 2002.

EMBO gold medal winners

- 1986 John Tooze (Heidelberg, D)
- 1987 Barbara Pearse (Cambridge, UK)
- 1988 Antonio Lanzavecchia (Basel, CH)
- 1989 Hugh Pelham (Cambridge, UK)
- 1990 Erwin Wagner (Vienna, A)
- 1991 Patrick Stragier (Paris, F)
- 1992 Carl-Henrik Heldin (Uppsala, S)
- 1993 Jim Smith (London, UK)
- 1994 Paolo Sassone-Corsi (Strasbourg, F)
- 1995 Richard Treisman (London, UK)
- 1996 Enrico Coen (Norwich, UK)
- 1997 Dirk Görlich (Heidelberg, D)
- 1998 Adriano Aguzzi (Zürich, CH)
- 1999 Konrad Basler (Zürich, CH)
- 2000 Christof Niehrs (Heidelberg, D) and Daniel St. Johnston (Cambridge, UK)
- 2001 Matthew Freeman (Cambridge, UK)
- 2002 Amanda Fisher (London, UK)

Communication award 2002

To encourage excellence in public communication by practising scientists, EMBO launched its Award for Communication in the Life Sciences in 2002. The 27 outstanding entries were proof that many scientists communicate outside peer circles.

The winner of the handcrafted medal and 5 000 euros was Ronald Plasterk (45) from the Netherlands Institute for Developmental Biology in Utrecht. The prize for 'Best Initiative' and 2 000 euros went to Nicole Stroh from the German Cancer Research Institute (DKFZ, Heidelberg, Germany), creator of the cancer patient support site, 'Krebs-Kompass'.

Plasterk is the perfect contradiction of the popular misconception that practising scientists do not communicate with the general public, and the international jury commended the extent of his commitment to communication. In his weekly column in the Dutch newspaper 'De Volkskrant', and as the presenter of a biweekly spot in a prominent news programme on Dutch television, Plasterk dissects societal and scientific arguments on a wide range of subjects.

He is also a regular commentator in other national news programmes and documentaries. In his recent book, 'Life from the lab' (Dutch: 'Leven uit het lab'), Plasterk addresses issues at the interface of science and society, focussing in particular on concerns about DNA manipulation, and weeding out misunderstandings and irrationalities.

Plasterk's extensive activities in communication run parallel to his outstanding research into the biological basis of taste, germline gene expression and the development of new tools for genetic and genomic analysis using the nematode worm, *C. elegans*.

This award continues in 2003 (deadline for entries: August 31). Suitable candidates are practising life scientists working in Europe and Israel, who are active in communicating with the public on issues in the life sciences.



EMBO's new prize for outstanding communication in the life science is a handcrafted three-dimensional silver and gold medal.



The first winner of the EMBO communication award is Ronald Plasterk.

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EMBO lectures

EMBO initiated a scheme in 1996 to provide support for plenary lectures at important scientific meetings held throughout Europe. The speakers are EMBO members and the aim is to assist local organizers while making the participants increasingly aware of EMBO activities. Applications for lectures are accepted at any time.

In 2002, EMBO provided funding for sixteen lectures given in nine member states (see below). These lectures are also a good example of how EMBO cooperates within complementary programmes of other organizations such as the Federation of European Biochemical Societies (FEBS) and the European Life Science Organisation (ELSO).

Robert Huber

XIIth International Symposium on Calcium Binding Proteins and Calcium Function in Health and Disease
I – Cavalese
January 29 – February 3

Jürgen Soll

7th IUBMB Conference
N – Bergen
May 4 – 8

Jean Massoulie

XIth International Symposium on Cholinergic Mechanisms – Function and Dysfunction
CH – St Moritz
May 5 – 9

Claudio Scazzocchio

Symposium on Transcriptional Regulation in Eukaryotic Organisms
T – Ankara
May 6 – 8

Christopher Dobson

Protein Workgroup of the Italian Society of Biochemistry and Molecular Biology
I – L'Aquila
June 6 – 8

Vito Turk

First Croatian Congress on Molecular Life Sciences
CR – Opatija
June 9 – 13

Maria Blasco

ELSO Meeting 2002
F – Nice
June 29 – July 3

Rino Rappuoli

The World of Microbes (Joint Meeting of the IUMS)
F – Paris
July 27 – August 1

Patricia Simpson

9th European Symposium on Drosophila Neurobiology
F – Dijon
September 7 – 11

Jiri Bartek

The Cell Cycle and its Checkpoints
F – Roscoff
September 21 – 25

Christopher Marshall

Making Decisions in G1
I – Frascati
October 3 – 5

Ada Yonath

FEBS Meeting 2002
T – Istanbul
October 20 – 25

Kim Nasmyth

Inaugural Symposium of the Hutchison/MRC Research Centre
UK – Cambridge
October 24 – 25

Ernesto Carafoli

Frontiers in Life Sciences
DK – Fyn
October 28 – 30

Matthias Mann

Ist Annual HUPO Congress
F – Versailles
November 21 – 24

Anne Ephrussi

XIII Congresso Nacional de Bioquímica
P – Lisbon
December 5 – 7

EMBO sectorial meetings

EMBO Sectoral Meetings aim to strengthen the contact between the organization and its members in a specific area of molecular biology and to define future directions in a particular sector.

The focus of the sectoral meeting that took place from November 22–23, 2002 was immunology. From various discussions and the feedback from EMBO members concerning the scope of the sectoral meetings, it became clear that the majority of immunologists who attended did not wish to have just another scientific meeting. In light of the major changes in Europe's immunology community, including the closedown of the Basel Institute of Immunology and the brain drain to places outside of Europe, this meeting focussed on the future of immunology research in Europe. For the first time, the sectoral meeting was not hosted in Heidelberg, but took place in Oeiras, Portugal, with Antonio Coutinho from the Gulbenkian Institute of Science as the local organizer. The restricted meeting was attended by 46 participants, most of them EMBO members, but with some young investigators and EMBO fellows

also present. During the two days at the Gulbenkian Institute, there was a well-balanced mix of excellent science and EMBO matters, and the practical steps being undertaken by EMBO as a result of the discussions will undoubtedly be of benefit to immunology in Europe. Examples of such practical steps will be EMBO's support for the initiation of a new series of meetings for young immunologists and close collaboration with the European Network of Immunology Institutes (ENII).

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The 2002 sectorial meeting on immunology took place in Oeiras, Portugal, at the Gulbenkian Institute of Science.

Since its formal inauguration in 2001, the EMBO World Programme has been steadily developing the various components that it offers, i. e. courses, workshops, lectures and exchange visits. The programme aims to internationalise European science by opening a gateway of possibilities for the exchange of information and opportunities for collaboration with non-European countries.

In recent years, the globalisation of interactions has drawn EMBO into an increased involvement in activities outside Europe. A major input here was the EC-funded EBNIC project with China that started in 1998. In the years that followed, EMBO successfully established contacts between scientists in both communities through the organization and co-sponsorship of standard activities such as workshops, lectures and visits by experts. This led to the decision in September 2000 to establish a World Programme, which has since been sponsoring fellowships, courses, workshops and plenary lectures in developing countries and emerging economies. During the past year, the EMBO World Programme has funded events

in South and Central America, Africa and Asia with the aim of developing contacts and promoting cooperation between European scientists and those beyond its borders (see appendix pp. 110 – 111 for full details).

World Programme fellowships

The year 2002 saw the introduction of the EMBO World Programme fellowship scheme, which offers funding for a period of six to nine months. Preference is given to scientists from developing countries and emerging economies to help them establish and build collaboration projects with their European partners. The first four recipients of the fellowships are listed in the table in the appendix (pp. 110 – 111).

cooperation agreement signed

Another milestone in the year 2002 was the signing of a cooperation agreement between EMBO and the Chinese Academy of Sciences. This was the result of many years of collaboration in the co-sponsorship of meetings. In addition to continued cooperation on joint meetings and exchange visits, the agreement proposes that the Chinese Academy of Sciences assist EMBO in estab-

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lishing a screening service for Chinese postdoctoral applicants who wish to spend a period of time in a European laboratory. The need for this type of service has become increasingly evident over the past few years and the EMBO World Programme is now busy putting the mechanisms in place to have such a service operational by the end of 2003. The same procedure could then be used to extend the service to other countries as needed.

International networking

Clearly, the growth and success of the World Programme depends on the networking created between EMBO and other scientific communities through-

out the world. In 2002, EMBO was engaged in discussions with a group of scientists from the Asia-Pacific region (A-IMBN) and from South America. The programme will continue to build on these contacts in 2003 with a view to broadening this network.

The overall effect of the EMBO World Programme so far has been to establish recognition of EMBO as a partner worldwide, thereby favouring Europe as a target for international scientific collaboration and training while promoting standards and programmes that have made a positive impact on Europe.



Mary Gannon (left) and Kathy Oswald (right) organize the Courses & Workshops Programme and the World Programme.

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From left to right: Lynne Turnbull,
Ellen Peerenboom and Uta Mackensen



The communication office serves as an information resource for journalists, scientists and other parties interested in EMBO's activities.

press conferences & press releases

In February 2002, EMBO officially launched the Restart Fellowship Programme. For the accompanying press event at EMBO in Heidelberg, we published a press release and a press package with extensive background information material in German and English. This included several EMBO publications such as the EMBO position paper on 'Women in the Life Sciences' and a follow-up booklet with interesting quotes from the 2001 'Glass Ceiling for Women in the Life Sciences' meeting that was published in February 2002. We invited Christiane Nüsslein-Volhard, Nobel Prize laureate and Director at the Max Planck Institute for Developmental Biology in Tübingen, Germany, and Renée Schröder of the Vienna Biocenter in Austria to speak at the launch. A lively discussion ensued between the two women researchers, EMBO representatives and the attending press. The launch was widely covered in both the national and interna-

tional media. Later in the year, we issued a press release announcing the first six awardees.

About 20 further press releases were distributed internationally in order to highlight EMBO's activities over the entire year. These included the announcement of the first World Programme fellowships, various Science and Society activities and the announcement of the EMBO Gold Medal 2002 winner.

communication with the general public

As a special project, the EMBO communication office hosted the exhibition 'Gene Worlds – Focus on Food' during May and June 2002 in the Heidelberg public library. This was a three-way cooperation between EMBO, the library and the Food Museum Alimentarium (a Nestlé foundation) in Vevey, Switzerland, who had designed the exhibition. As a kick-off event, EMBO offered local teachers a half-day workshop on genetically modified food that included hands-on classroom activities. More than 30 teachers attended and engaged the workshop organizers in a lively discussion on GM foods and transgenic plants. During

the four weeks of the exhibition, we issued invitations to classes from several schools to attend. Teachers from 20 classes made use of the opportunity. Their students received an introduction to the subject before viewing the exhibition and had the option of participating in a discussion afterwards. The exhibition was also accompanied by a 'science-in-the-pub' evening on genetically modified food.

information for EMBO members and the scientific community

EMBO continued the newsletter service started in October 2001 and published five newsletters in 2002. The newsletters were distributed to the EMBO members by e-mail, informing them in brief about EMBO's initiatives and activities, with links to the detailed information on the activities described on the website. A number of the newsletters were mailed as hard copies. The newsletters are also available on the EMBO website and can be downloaded as PDFs.

In a major project that ran into 2003, we compiled a catalogue with profiles of the 101 young investigators for the

years 2000 – 2002. EMBO's activities were further highlighted at different meetings throughout the year, including the ELSO conference in Nice, France. During this event, EMBO presented its activities in two sessions and also set up a booth with information material and posters. There were many inquiries about EMBO's various fellowships and training programmes from the scientists attending this conference. Most of the researchers were at the PhD or postdoc level. In November, EMBO also had a stand at the launch of the European Commission's Framework 6 Programme in Brussels.

Over the year, a variety of printed information material in the form of flyers, posters and booklets was produced and distributed to interested parties. Some of this material can be downloaded from the EMBO homepage that was relaunched at the end of 2001 and has been updated on a regular basis ever since. The homepage was also extended in 2002 to include a wider range of services.

The EMBO newsletter highlights EMBO's activities in brief.





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2001

1998, 2001

2000, 2002

1997, 2000

2000

2002

1998, 2001

2002

1999, 2002

2001

2000

1999, 2002

2000

1998, 2001

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Edoardo Boncinelli

Erik Boye

Brian Clark

Antonio Coutinho

Francois Cuzin

Susan Gasser (Vice-Chair)

Ingrid Grummt

Herbert Jäckle (Chair)

Carlos Martinez-Alonso

Cesare Montecucco

Sean Munro

Paul Nurse

André Sentenac

Giora Simchen

Peter van der Vliet

country & city

I-Milan

N-Oslo

DK-Aarhus

P-Oeiras

F-Nice

CH-Geneve

D-Heidelberg

D-Goettingen

E-Madrid

I-Padova

UK-Cambridge

UK-London

F-Gif-sur Yvette

IL-Jerusalem

NL-Utrecht

ex officio:

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Frank Gannon

Fotis Kafatos

Carl-Henrik Heldin

Daniela Rhodes

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Denise Barlow

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(Chair of EMBL SAC)

(Chair of EMBO Fellowship Committee)

(Chair of EMBO Course Committee)

(Chair of Membership & Publication Committee)

(Chair of Science & Society Committee)

(Chair of EMBO Young Investigator Programme Committee)

(Chair of EMBO Electronic Information Programme Committee)

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1999	Ton Bisseling
2000	Pascale Cossart (Chair)
2002	Jonathan Howard
2002	Philip Ingham
2000	Juan Modolell
2000	Kirsten Sandvig
1999	Martin Schwab
2001	Anna Tramontano
2001	Joel Vandekerckhove
1999	Yosef Yarden

electronic information committee

2001	Graham Cameron
2000	Julio Celis
2000	Sigrun Eckelmann
2002	Gerard Giroud
2000	Jacques Haiech
2000	Carlos Martinez-Alonso
2000	Marianne Minkowski
2002	Annette Thomas
2000	Glauco Tocchini-Valentini (Chair)
2000	Alicia Wise

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2000	Maurizio Brunori
2000	Doreen Cantrell
2000	Maria Carmo Fonseca
2000	Marc Chabre
2000	Yoram Groner
2002	Regine Kahmann
2000	Iain Mattaj
2000	Jean-David Rochaix (Chair)
2000	Gunnar von Heijne
2000	Maciej Zylicz

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2000	Francesco Blasi
2001	August Boeck
2002	John Diffley
2000	Thomas Edlund
1999	Costa Georgopoulos
2000	Crisanto Gutierrez
2002	Jan Hoeijmakers
2000	Bernard Malissen
2000	Daniela Rhodes (Chair)
2001	Varda Rotter

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1999	Joel Bockaert
1999	Raymond Dixon
1999	Carlos Gancedo
1999	Frank Grosveld
2000	Robert Huber
2001	Ada Kruisbeek
2002	Maria Leptin
1999	Cesare Montecucco (Chair)
1999	Howard Riezman
2002	Hans Wolf-Watz

science & society committee

1999	Denise Barlow (Chair)
2000	Axel Brennicke
2001	Victor de Lorenzo
2001	Heidi Diggelmann
1999	Niels Fill
2001	Matthew Freeman
1999	Fotis Kafatos
2001	Mary Osborn
2002	Roberto Sitia
2002	Mary Weiss

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1999, 2002	André Sentenac	F-Gif-sur-Yvette
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2003	Maciej Zyllicz	PL-Warsaw

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2000	Kirsten Sandvig
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2001	Joel Vandekerckhove
2003	Peter Weisbeek

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2001	Graham Cameron
2000	Sigrun Eckelmann
2002	Gerard Giroud
2000	Jacques Haiech
2000	Carlos Martinez-Alonso
2000	Marianne Minkowski
2002	Annette Thomas
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2003	Eric Westhof
2000	Alicia Wise

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2000	Iain Mattaj
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2000	Gunnar von Heijne

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2000	Francesco Blasi
2001	August Böck
2002	John Diffley
2000	Thomas Edlund
2000	Crisanto Gutierrez
2002	Jan Hoeijmakers
2003	Angela Krämer
2000	Bernard Malissen
2000	Daniela Rhodes (Chair)
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1999	Joel Bockaert
1999	Raymond Dixon
1999	Frank Grosveld
2003	Ari Helenius
2002	Maria Leptin
1999	Cesare Montecucco (Chair)
2003	Dino Moras
2002	Hans Wolf-Watz

science & society committee

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2000	Axel Brennicke
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2001	Matthew Freeman
2003	Matthias Hentze
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Frances M. Ashcroft	Doreen A. Cantrell	Matthias W. Hentze
Andrea Ballabio	Gennaro Ciliberto	Christopher F. Higgins
Mariano Barbacid	Pascale Cossart	Jonathan Hodgkin
Yves-Alain Barde	Pietro V. De Camilli	Jan H.J. Hoeijmakers
Jiri Bartek	Bauke W. Dijkstra	Barbara Hohn
David C. Baulcombe	Marcel Dorée	Tim Hunt
Peter B. Becker	Giulio Draetta	Tony Hunter
Jean D. Beggs	Raymond A. Dwek	Nancy E. Hynes
Anton J. Berns	Gerard I. Evan	Philip W. Ingham
Michael J. Berridge	Henrik Garoff	Herbert Jäckle
Heinrich Betz	Susan M. Gasser	Richard J. Jackson
Mariann Bienz	Benjamin Geiger	Stephen P. Jackson
August Böck	Frank G. Grosveld	Reinhard Jahn
Johannes L. Bos	Jean Gruenberg	Stefan Jentsch
Chris Bowler	Ingrid Grummt	Thomas J. Jentsch
Erik Boye	Ernst Hafen	Josef Jiricny
Bernd Bukau	Alan Hall	Regine Kahmann

Eric Karsenti	Michael J. Owen	David Tollervey
Rolf Kemler	Peter J. Parker	Richard Treisman
Guido Kroemer	Hugh R.B. Pelham	Stephen C. West
Robb Krumlauf	Nikolaus Pfanner	Alfred Wittinghofer
Werner Kühlbrandt	Olaf Pongs	Dieter H. Wolf
Michel Lazdunski	Martin C. Raff	Hans Wolf-Watz
Tomas Lindahl	Tom A. Rapoport	Mitsuhiro Yanagida
Reinhard Lührmann	Daniela Rhodes	Marino Zerial
Bernard Malissen	Howard Riezman	Maciej Zylicz
Christopher J. Marshall	Jean-David Rochaix	
Carlos Martinez-Alonso	Bernard C. Rossier	
Marjori A. Matzke	Helen R. Saibil	
Cesare Montecucco	Philippe J. Sansonetti	
Dino Moras	Georg E. Schulz	
Jorge Moscat	Bertrand Séraphin	
Sean Munro	David J. Sherratt	
Kiyoshi Nagai	Ben-Zion Shilo	
Michael S. Neuberger	Roberto Sitia	
Walter Neupert	James C. Smith	
Moshe Oren	Daniel St. Johnston	

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country & name	nationality	guest laboratory	previous laboratory	research interest
Austria				
Berdnik, Daniela	Austrian	Stanford University, USA	IMP, Vienna, Austria	Cellular mechanisms of projection neuron dendritic targeting in the olfactory system of <i>Drosophila melanogaster</i>
Duchek, Peter	Austrian	Ludwig Institute for Cancer Research, London, UK	EMBL, Heidelberg, Germany	Regulation of cell polarity by heterotrimeric G proteins in <i>Drosophila</i>
Pichler, Silke	Austrian	Howard Hughes Medical Institute, Princeton University, Princeton, USA	Howard Hughes Medical Institute, Princeton University, Princeton, USA	Bicoid dependent morphogenesis and nuclear distribution in early embryos
Selenko, Philipp	Austrian	Harvard Medical School, Boston, USA	EMBL, Heidelberg, Germany	Structural studies of novel protein domains in the eukaryotic translation initiation factor 4G
Belgium				
Bentires-Alj, Mohamed	Belgian	Harvard Institutes of Medicine, Boston, USA	Harvard Institutes of Medicine, Boston, USA	Role of Gab2 in breast cancer
D'Haese, Wim	Belgian	The University of Georgia, Athens, USA	The University of Georgia, Athens, USA	Structural and functional characterization of lipo and capsular polysaccharides synthesized by <i>Azorhizobium caulinodans</i>
Richard, Melisande	Belgian	Heinrich Heine University, Institute of Genetics, Düsseldorf, Germany	Ludwig Institute for Cancer Research, Brussels, Belgium	Functional analysis of the <i>Drosophila</i> gene crumbs
Cyprus				
Savvides, Savvas	Cypriot	Free University of Brussels, Belgium	Washington University, School of Medicine, St Louis, USA	Shedding light onto trafficking proteins of the <i>P. aeruginosa</i> type II secretion system: Crystal structures of XcpP and XcpR
Denmark				
Dirac, Annette	Danish	Netherlands Cancer Institute, Amsterdam, The Netherlands	Netherlands Cancer Institute, Amsterdam, The Netherlands	Identification of novel genes mediating a by-pass of senescence by functional genetic screens with retroviral cDNA expression libraries
Dumstrei, Karin	Danish	MPI of Biophysical Chemistry, Göttingen, Germany	MPI of Biophysical Chemistry, Göttingen, Germany	Germ cell migration in zebrafish
Sunesen, Morten	Danish	Institut Pasteur, Paris, France	Institut Pasteur, Paris, France	Upregulation of nicotinic acetylcholine receptors in the neuromuscular junction by transcription and posttranscriptional processes

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Finland				
Eklund, Lauri	Finnish	Harvard Medical School, Boston, USA	Collagen Research Unit, University of Oulu, Finland	Molecular basis of vascular anomalies
Manninen, Aki	Finnish	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Institute of Medical Technology, Tampere, Finland	Lipid raft clustering in influenza virus budding and membrane trafficking
Vartiainen, Maria	Finnish	University of Birmingham, UK	University of Helsinki, Finland	Analysis of mammalian Scar1-3 function in actin dependent cellular processes
France				
Angeli, Veronique	French	Carl C. Icahn Institute for Gene Therapy and Molecular Medicine, New York, USA	Institut Pasteur de Lille, France	Dendritic cell migration, eicosanoids and atherosclerosis
Aronson, Marie	French	Haartman Institute, Helsinki, Finland	Haartman institute, Helsinki, Finland	The LKB1 tumour suppressor gene as a regulator of cell cycle
Bakiri, Latifa	French	IMP, Vienna, Austria	IMP, Vienna, Austria	Investigating AP-1 function <i>in vivo</i> using inducible alleles in mice
Barneche, Fredy	French	University of Geneva, Switzerland	University of Geneva, Switzerland	Characterization of the Nac2 complex in <i>Chlamydomonas reinhardtii</i>
Baron, Carole	French	University of Geneva, Switzerland	University of Geneva, Switzerland	Lipid kinase requirement for the recruitment and the regulation of the protein kinase D at the trans-Golgi network.
Besse, Florence	French	EMBL, Heidelberg, Germany	Institut Jacques Monod, Paris, France	Identification of factors controlling neuronal mRNA localisation in the Drosophila neuromuscular junction
Brelot, Anne	French	University of California, San Francisco, USA	University of California, San Francisco, USA	Role of oligomerization in post-endocytic sorting of G protein-coupled receptors
Bressanelli, Stéphane	French	Institute of Virology, Vienna, Austria	Virologie Moléculaire et Structurale, Gif-sur-Yvette, France	Biochemical and structural studies of the fusogenic form of the envelope protein of tick-borne encephalitis virus
Brodu, Veronique	French	Institut de Biologia Molecular de Barcelona-CSIC, Spain	MRC, National Institute of Medical Research, UK	Cell adhesion and cytoskeletal organization during tracheal cell pathfinding in Drosophila
Cristofari, Gael	French	Swiss Institute for Experimental Cancer Research, Lausanne, Switzerland	Ecole Normale Supérieure de Lyon, France	Reconstitution of telomere replication <i>in vitro</i>
Dardalhon, Valerie	French	Brigham and Women's Hospital, Boston, USA	IGMM, Montpellier, France	Characterization of TIM3 and its ligand: Implication in autoimmunity
de Rosa, Renaud	French	University of Geneva, Switzerland	Centre de Génétique moléculaire, Gif-sur-Yvette, France	Tracing back the origin and evolution of the budding process in cnidarians
Deltour, Sophie	French	Institute of Cancer and Developmental Biology, Cambridge, UK	Institut Pasteur de Lille, France	The recruitment of ATPases to methylated histone H3 in mammalian cells

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Deschamps, Michael	French	University of Oxford, UK	University of Oxford, UK	NMR study of peptide bond planarity in 4F1-5F1 fibronectin module pair
Devaux, Frederic	French	Institute of Cell and Molecular Biology, Edinburgh, UK	Laboratoire de Génétique Moléculaire, Paris, France	Genome-wide analyses of mRNA degradation pathways in yeast
Duthey, Beatrice	French	Centro Nacional de Biotecnologia, Madrid, Spain	CNRS, Montpellier, France	Identification of markers and targets in chemokine signaling pathways: Implication in tumour biology
Ennifar, Eric	French	EMBL, Heidelberg, Germany	CNRS, Strasbourg, France	Structure-function studies of DNA junction resolving enzymes
Farre, Jean-Claude	French	University of California, La Jolla, USA	University of California, La Jolla, USA	Peroxisomal biogenesis, genes implicate in microautophagy
Furtoss, Olivia	French	Montreal Neurological Institute, Canada	CNRS, Montpellier, France	Characterization of the molecular mechanisms used by MLK-3 to promote glioma cells apoptosis
Gillet, Reynald	French	MRC-LMB, Cambridge, UK	MRC-LMB, Cambridge, UK	Structural studies on tmRNA-SmpB ribonucleoprotein complex within the ribosome
Giudicelli, François	French	Cancer Research Institute, London, UK	Ecole Normale Supérieure, Paris, France	Investigating oscillations of gene expression during zebrafish somitogenesis
Gompel, Nicolas	French	R. M. Bock Laboratory, Madison, USA	R. M. Bock Laboratory, Madison, USA	Molecular and regulatory evolution of abdominal sexual traits in <i>Drosophila</i>
Huynh, Jean	French	Institut Jacques-Monod, CNRS, Paris, France	Wellcome CRC Institute, Cambridge, UK	A germline clone screen for mutants affecting the determination and early polarisation of the oocyte in <i>Drosophila</i>
Lecuit, Marc	French	Washington University School of Medicine, St Louis, USA	Institut Pasteur, Paris, France	Functional genomic studies of a gnotobiotic transgenic mouse model of human listeriosis
Manuel, Martine	French	Edinburgh University, UK	Edinburgh University, UK	Role of PAX-6 in forebrain development
Menand, Benoit	French	John Innes Centre, Norwich, UK	CEA Cadarache, Saint Paul lez Durance, France	Identification of genes regulated by RHD6 during root hair development using arrays
Metivier, Raphael	French	EMBL, Heidelberg, Germany	EMBL, Heidelberg, Germany	Structure and function of the ER chronology and cell specifications of the events involved in its transcriptional activity
Peyron, Pascale	French	EMBL, Heidelberg, Germany	Institut de Pharmacologie et de Biologie Structurale, Toulouse, France	Analysis of the membrane signaling network that regulates phagosomal fusion with lysosomes in macrophages
Pilot, Guillaume	French	University of Tübingen, Germany	University of Tübingen, Germany	Characterization of the adult mutant from <i>Arabidopsis</i> that secretes glutamine, and study of the function of the corresponding gene, ADU1, in relation to the regulation of amino acid transport

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Robbe, David	French	Center for Neuroscience Rutgers, Newark, USA	CNRS, Montpellier, France	Plasticity of pyramidal cell-interneuron connection
Rouach, Nathalie	French	University of California, San Francisco, USA	College de France, Paris, France	Mechanisms of stargazin-mediated synaptic targeting glutamate receptors
Rutschmann, Sophie	French	The Scripps Research Institute, San Diego, USA	Institute of Molecular and Cellular Biology, Strasbourg, France	Isolation of genes implicated in immune responses against intracellular pathogens using ENU mutagenesis screening in the mouse
Schepens, Isabelle	French	University of Geneva, Switzerland	University of Geneva, Switzerland	The role of phosphorylation in early steps of phytonchrome A signaling pathway
van de Bor, Veronique	French	ICMB, Edinburgh, UK	IGBMC, Strasbourg, France	Characterization of sequence elements required for gurken mRNA localisation in the Drosophila oocyte
Vanrobays, Emmanuel	French	Métabolisme de l'ARN, Charleroi-Gosselies, Belgium	IBCG, Toulouse, France	Unwinding the roles of two related DEAH-box RNA helicases in ribosome synthesis
Verdel, André	French	Harvard Medical School, Boston, USA	Harvard Medical School, Boston, USA	Role of Hst3 and Hst4 in chromosome segregation and stability in <i>Saccharomyces cerevisiae</i>
Vernoux, Teva	French	Duke University, Durham, USA	INRA, Versailles, France	Genetic and molecular analysis of the SHORT-ROOT radial patterning pathway in the root of <i>Arabidopsis thaliana</i>
Vert, Grégory	French	The Salk Institute, La Jolla, USA	INRA, Versailles, France	Genetic and genomic analyses of brassinosteroid signaling in plants
Vidalain, Pierre-Olivier	French	Dana Farber Cancer Institute, Boston, USA	INSERM, Lyon, France	Functional genomic mapping to investigate <i>Caenorhabditis elegans</i> immune system
Germany				
Barg, Sebastian	German	Oregon Health Science University, USA	Lund University, Sweden	Mechanisms of exocytosis, release and compensatory endocytosis in endocrine secretion
Carl, Matthias	German	University College, London, UK	EMBL, Heidelberg, Germany	Establishment of asymmetry and laterality within the vertebrate forebrain
Christ, Nicole	German	Sloan-Kettering Institute, New York, USA	Sloan-Kettering Institute, New York, USA	Selective inactivation of homologous DNA repair components in mammary glands: Development of a mouse mammary tumour model
Eimer, Stefan	German	Ecole Normale Supérieure, Paris, France	Adolf Butenandt Institute, Munich, Germany	Molecular and genetic analysis of the adaptation to nicotinic agonists in <i>C. elegans</i>
Gerlich, Daniel	German	EMBL, Heidelberg, Germany	DKFZ, Heidelberg, Germany	Temporal and spatial regulation of chromosome cohesion and condensation in living cells

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country & name	nationality	guest laboratory	previous laboratory	research interest
Gross-Hardt, Rita	German	Institute for Plant Biology, Zürich, Switzerland	Institute for Plant Biology, Zürich, Switzerland	Molecular control of cell specification during plant development
Haebel, Peter	German	Institute for Molecular Biology and Biophysics, Zürich, Switzerland	Institute for Molecular Biology and Biophysics, Zürich, Switzerland	Structural studies of the interactions between the SPR and the ribosome
Hoffmann, Michaela	German	Laboratoire de Physiologie Cellulaire Vegetale, Grenoble, France	University of Ulm, Germany	Folate transport in higher plants
Kuhn, Josef	German	University of California, San Diego, USA	University of Ulm, Germany	Impacts of altered mRNA processing an abscisic acid signal transduction in <i>Arabidopsis thaliana</i>
Leismann, Oliver	German	Harvard University, Boston, USA	University of Bayreuth, Germany	Identification and characterization of novel chromosome-binding proteins in <i>Xenopus laevis</i> and <i>Drosophila melanogaster</i>
Lohrum, Marion	German	NCMLS/ University of Nijmegen, The Netherlands	NCMLS/ University of Nijmegen, The Netherlands	Molecular basis of the transcriptional activation and repression function of p53
Pham, Anh-Dung	German	University of Medicine and Dentistry of New Jersey, USA	ZMBH, Heidelberg, Germany	Functional signification of histone ubiquitination for the chromatin structure and gene expression in eukaryotes
Rape, Michael	German	Harvard Medical School, Boston, USA	MPI of Biochemistry, Martinsried, Germany	Activity of the anaphase-promoting complex during differentiation and in differentiated cells
Ribbeck, Katharina	German	EMBL, Heidelberg, Germany	ZMBH, Heidelberg, Germany	Analysing the role of nucleoporins in mitotic spindle organization
Schaefer, Matthias	German	Karolinska Institute, Stockholm, Sweden	Karolinska Institute, Stockholm, Sweden	Molecular and biochemical characterization of asymmerically dividing mammalian stem cells
Schnorrer, Frank	German	IMP, Vienna, Austria	MPI of Developmental Biology, Tübingen, Germany	Cellular and molecular mechanisms that regulate myotube pathfinding and attachment site selection in the <i>Drosophila</i> embryo
Schramm, Birgit	German	EMBL, Heidelberg, Germany	EMBL, Heidelberg, Germany	The use of vaccinia virus infection as a model system to study interactions between the endoplasmic reticulum and microtubules
Schwanbeck, Ralf	German	National Cancer Institute, National Institutes of Health, Bethesda, USA	National Cancer Institute, National Institutes of Health, Bethesda, USA	Mechanism of chromatin remodelling by the ISWI containing complex NURF
Schwarz-Romond, Thomas	German	MRC, Cambridge, UK	Max Delbrueck Centre for Molecular Medicine, Berlin, Germany	A comprehensive screen for new Wnt-signaling components using <i>Drosophila</i> genetics
Stitz, Jörn	German	Stanford University, Palo Alto, USA	Paul Erlich Institute, Langen, Germany	Disruption and characterization of intracellular signaling cascades involved in angiogenesis
Wagner, Kay-Dietrich	German	Université de Nice-Sophia Antipolis, France	Medical Faculty, Charité, Berlin, Germany	Investigation of sex determination in mammals using siRNA

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Greece				
Constantinidis, Christos	Greek	MPI of Biological Cybernetics, Tübingen, Germany	Yale University School of Medicine, New Haven, USA	Involvement of prefrontal and parietal regions of the cerebral cortex in perceptual rivalry
Damalas, Alexander	Greek	Netherlands Cancer Institute, Amsterdam, The Netherlands	Weizmann Institute of Science, Rehovot, Israel	Studying tumorigenesis using siRNA-expressing vectors
Kypreos, Kyriakos	Greek	TNO Prevention and Health, Leiden, The Netherlands	Whitaker Cardiovascular Institute, Boston, USA	Mechanisms underlying familial type III hyperlipoproteinemia; the role of the c-terminal end of apoE2.
Platani, Melpomeni	Greek	EMBL, Heidelberg, Germany	University of Dundee, UK	Identification and characterization of target molecules of Ran that play a role in chromatin-induced spindle assembly.
Soutoglou, Evi	Greek	INSERM, Strasbourg, France	Institute of Molecular Biology and Biotechnology, Crete, Greece	The dynamics of assembly of the TAF-containing complexes within the nuclear environment
Tsiamis, George	Greek	University of Ioannina, Agrinio, Greece	Imperial College at Wye, Kent, UK	Dissection of the signal transduction pathway that leads to disease in the <i>Pseudomonas syringae</i> /Arabidopsis interaction.
Hungary				
Garami, Attila	Hungarian	Friedrich Mischer Institute for Biomedical Research, Basel, Switzerland	MPI of Biology, Tübingen, Germany	Control of the mTOR/S6K/4EBP-Signaling Pathway by TSC, a tumour suppressor
Jankovics, Ferenc	Hungarian	EMBL, Heidelberg, Germany	Biological Research Centre, Szeged, Hungary	Exploring the mechanisms of spatial microtubule organization in <i>Drosophila melanogaster</i>
Israel				
Arazi, Tzahi	Israeli	John Innes Centre, Norwich, UK	Volcani Centre ARO, Bet Dagan, Israel	Involvement of RNA silencing in regulation of plant cellular genes
Gil-Henn, Hava	Israeli	Yale University, New Haven, USA	Weizmann Institute of Science, Rehovot, Israel	Identification and characterization of Shp2 substrates in signaling pathways mediated by FGF- and neurotrophin receptors
Hauben, Ehud	Israeli	San Raffaele Telethon Institute for Gene Therapy, Milan, Italy	Weizmann Institute of Science, Rehovot, Israel	Dendritic cell based therapies for degenerative and autoimmune diseases through regulation of specific immune responses
Korenblit, Sivan	Israeli	University of California, San Francisco, USA	Weizmann Institute of Science, Rehovot, Israel	Molecular dissection of the <i>C. elegans</i> insulin/IGF-1 pathway in the regulation of lifespan
Matza, Yehuda (Didi)	Israeli	Yale University School of Medicine, New Haven, USA	Yale University School of Medicine, New Haven, USA	The role of a novel giant protein-AHNAK2 in calcium signaling in the immune system
Raviv, Uri	Israeli	California NanoSystems Institute, UCLA, Los Angeles, USA	Weizmann Institute of Science, Rehovot, Israel	Cell biophysics: A single molecule approach

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Schuldiner, Oren	Israeli	Stanford University, San Francisco, USA	Silberman Institute of Life Sciences, Jerusalem, Israel	Molecular mechanisms of axon pruning
Shmuel, Amir	Israeli	MPI of Biological Cybernetics, Tübingen, Germany	University of Minnesota, Minneapolis, USA	Can functional MRI detect decreases in neuronal activity? Neural correlates of the negative BOLD response
Italy				
Buonomo, Sara	Italian	The Rockefeller University, New York, USA	The Rockefeller University, New York, USA	The mechanism of telomerase regulation at telomeres
De Antoni, Anna	Italian	European Institute of Oncology, Milan, Italy	MPI for Biophysical Chemistry, Göttingen, Germany	Structural and functional studies of proteins involved in the mitotic spindle checkpoint
Greco, Valentina	Italian	The Rockefeller University, New York, USA	MPI of Cell Biology and Genetics, Dresden, Germany	Identifying key changes in gene expression as skin stem cells exit their niche
Mascia, Laura	Italian	Biopolymer Chemistry, TU Munich, Germany	Instituto di Neurofisiologia, Pisa, Italy	Homo- and heterophilic interactions between SNARE proteins of the secretory pathway; role of membrane-spanning domains
Piddini, Eugenia	Italian	The National Institute for Medical Research, London, UK	The National Institute for Medical Research, London, UK	Regulatory mechanisms of wingless degradation
Pistillo, Daniela	Italian	New York University, USA	University of Cambridge, UK	A novel insertional screen for mutations affecting late stages of Drosophila eye development
Punzo, Claudio	Italian	Harvard Medical School, Boston, USA	Biozentrum, University of Basel, Switzerland	Common mechanisms that lead to cone death: Gene expression analysis during rod cell mediated cone death
Rossi, Daniela	Italian	University of Milan, Italy	MRC, Institute of Neurology, London, UK	Involvement of glia and glutamate in scapie-induced neurodegeneration: Mechanisms and pharmacological intervention
Serino, Giovanna	Italian	Università degli Studi di Roma "La Sapienza", Rome, Italy	Yale University, New Haven, USA	Functional analysis of the dof protein AtBBF1 in Arabidopsis
Spadaccini, Roberta	Italian	EMBL, Heidelberg, Germany	Università degli Studi di Napoli "Federico II", Naples, Italy	Structural basis for branchpoint recognition in the spliceosome by the U2 protein p14
Poland				
Drozd, Maciej	Polish	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	The fate and function of dsRNA in murine embryonic carcinoma and embryonal stem cells
Portugal				
Beldade, Patricia	Portuguese	Steinhaus Hall, Irvine, USA	Steinhaus Hall, Irvine, USA	Evolution and development of butterfly wing patterns: Genetic basis of eyespot variation in <i>Bicyclus anynana</i> butterflies
Caldeira, Sandra	Portuguese	Institute of Histology and Embryology, University of Lisbon, Portugal	DKFZ, Heidelberg, Germany	Analysis of OculoPharyngeal Muscular Dystrophy (OPMD) pathogenic mechanisms by gene expression profiling

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Escobar-Henriques, Mafalda	Portuguese	Institut für Genetik, Cologne, Germany	Institut für Genetik, Cologne, Germany	Degradation of mitochondrial outer membrane proteins
Spain				
Ayllón Cases, Veronica	Spanish	Hôpital de la Pitié-Salpêtrière, Paris, France	Centro Nacional de Biotechnología, Madrid, Spain	Role of Aiolos in the control of proliferation, apoptosis and tumoural transformation
Bayascas Ramirez, Jose	Spanish	University of Dundee, UK	Grup de Neurobiologia Molecular, Faculty of Medicine, Lleida, Spain	Role of the PH domain in regulating PDK1 activity
Bernadó, Pau	Spanish	Institut de Biologie Structurale Jean-Pierre Ebel, Grenoble, France	University of Barcelona, Spain	Solution structure analysis of human survivin, an anti-apoptotic protein
Carrasco, Yolanda	Spanish	Cancer Research UK, London, UK	Cancer Research UK, London, UK	Adhesion molecules in determining B cell fate
Cebria, Francesc	Spanish	University of Illinois, Urbana, USA	University of Illinois, Urbana, USA	Axon guidance mechanisms during planarian nervous system regeneration: The SLIT/ROBO system
Codina Viladoms, Anna Maria	Spanish	Medical Research Council LMB, Cambridge, UK	University of Barcelona, Spain	Structural studies of the nuclear receptor coactivator PGC-2 and its interaction with the PPAR γ N-terminal domain
De la Peña Del Rivero, Marcos	Spanish	EMBL, Grenoble, France	EMBL, Grenoble, France	Structural studies of the mechanism and regulation of the eukaryotic mRNA decapping enzyme
Fernandez-Fernandez, M.Rosario	Spanish	MRC, Cambridge, UK	Universidad Autónoma de Madrid, Spain	Study of the interaction between p53 tumour suppressor and S100B calcium binding protein: A target for a new cancer therapies
Fernandez-Tornero, Carlos	Spanish	EMBL, Grenoble, France	Centro de Investigaciones Biológicas, Madrid, Spain	Structural studies on yeast RNA polymerase III
Garrido-Franco, Marta	Spanish	Wellcome Trust Biocentre, Dundee, UK	MPI of Biochemistry, Martinsried, Germany	Structural characterization of the p70 ribosomal S6 kinase: A study of its functionality, regulation and future applications in diabetes and cancer
Gil Pages, Diana	Spanish	Laboratory of Transplantation Immunology and Nephrology, University of Basel, Switzerland	Facultad de Ciencias, Universidad Autónoma de Madrid, Spain	The effect of ligand affinity on the CD3-Nck interaction
Martinez Morales, Juan-Ramon	Spanish	EMBL, Heidelberg, Germany	Cajal Institute (CSIC), Madrid, Spain	Genetic analysis of the pigmented epithelium development in Medaka (<i>Oryzias latipes</i>)
Millet, Oscar	Spanish	University of Toronto, Canada	University of Toronto, Canada	Solution structure of the complex between maltose binding protein (MBP) and the periplasmic domain of the Tar receptor.
Montero-Simon, Juan Antonio	Spanish	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Facultad de Medicina, Universidad de Cantabria, Santander, Spain	Analysis of the role of phosphoinositide 3 kinases (PI3K) in regulating zebrafish gastrulation movements
Muñoz Franco, Jaime	Spanish	Institut Pasteur, Paris, France	Institut Pasteur, Paris, France	Role of the interleukin 7/ IL-7 receptor axis on T-cell homeostasis

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country & name	nationality	guest laboratory	previous laboratory	research interest
Panicot-Anglada, Mireia	Spanish	John Innes Centre, Norwich, UK	John Innes Centre, Norwich, UK	Roles of the Arabidopsis U box protein PUB20 in ubiquitylation and plant defence responses
Pineda-Molina, Estela	Spanish	EMBL, Grenoble, France	Centro de Investigaciones Biológicas, Madrid, Spain	Molecular interactions in filovirus assembly and budding
Ramón-Maiques, Santiago	Spanish	National Institutes of Health, USA	Instituto de Biomedicina de Valencia (CSIC), Spain	Structural and functional studies of DNA mismatch repair and its coordination with replication
Ramos, Joan Pous	Spanish	Laboratoire de Genetique des Virus, Gif-sur-Yvette, France	IBMB-CSIC, Barcelona, Spain	Isolated participle 3D electron microscopy reconstruction
Santiveri Martín-Varés, Clara María	Spanish	MRC, Cambridge, UK	Instituto de Química Física Rocasolano (CSIC), Spain	Structural studies of protein-protein interactions involving human transcription factor CA150.
Vela, Antonio	Spanish	Dana Farber Cancer Institute, Boston, USA	National Center of Biotechnology (CNB), Madrid, Spain	Dissecting the molecular pathways leading to mitochondrial dependent cell death
Villalonga, Priam	Spanish	Ludwig Institute for Cancer Research, London, UK	Ludwig Institute for Cancer Research, London, UK	Regulation of cell proliferation and transformation by Rnd3/RhoE
Sweden				
Jemth, Per	Swedish	University of Cambridge, UK	Uppsala University, Sweden	Solid-support and ultrafast protein folding
Karlsson, Andres	Swedish	CNRS, Gif-sur-Yvette, France	Uppsala University, Sweden	Structural studies of large Arf-guanine nucleotide exchange factors
Monne, Magnus	Swedish	MRC, Cambridge, UK	Arrhenius Laboratories, Stockholm University, Sweden	Structure determination of the uncoupling protein
Serrander, Lena	Swedish	Belle Idee Research Center, Geneva, Switzerland	Karolinska Institute, Stockholm, Sweden	The role of a new family of NADPH oxidases in inflammatory gut diseases and colon carcinoma
Toresson, Håkan	Swedish	Edinburgh University, UK	Wallenberg Neuroscience Centre, Lund, Sweden	The role of dendritic spine dynamics in hippocampal neuron synaptic plasticity
Switzerland				
Baumberger, Nicolas	Swiss	The Sainsbury Laboratory, Norwich, UK	Institute of Plant Biology, Zürich, Switzerland	Biochemical purification and identification of protein complexes associated with short interfering RNAs during posttranscriptional gene silencing in plants
Martin, Sophie	Swiss	Columbia University College of Physicians and Surgeons, New York, USA	University of Cambridge, UK	Interactions between microtubules and actin in cell polarisation
Meraldi, Patrick	Swiss	Massachusetts Institute of Technology, Cambridge, USA	MPI of Cell Biology, Martinsried, Germany	Investigating the mitotic spindle checkpoint by live cell imaging
Sameez, Hasan	Swiss	The Salk Institute, La Jolla, USA	The Salk Institute, La Jolla, USA	DNA hypomethylation induced changes in the epigenetic code of the p16Ink4a tumour suppressor gene

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Uldry, Marc	Swiss	Dana Farber Cancer Institute, Boston, USA	Institute of Pharmacology and Toxicology, Lausanne, Switzerland	Repression of PGC1 by insulin
The Netherlands				
Barends, Sharief	Dutch	Institut de Biologie Moléculaire et Cellulaire, Strasbourg, France	Leiden Institute of Chemistry, Leiden, The Netherlands	RNAs and peptides acting as inhibitors of translation
Diehl, Linda	Dutch	Experimental Immunology, Bonn, Germany	IHB, Leiden, The Netherlands	The role of costimulatory molecules in liver-induced T-cell tolerance
Govers, Roland	Dutch	Garvan Institute of Medical Research, Darlinghurst, Australia	Garvan Institute of Medical Research, Darlinghurst, Australia	Identification and characterization of the cellular GLUT4 trafficking mechanisms
Hazenberg, Mette	Dutch	Gladstone Institute of Virology and Immunology, San Francisco, USA	CLB, Amsterdam, The Netherlands	T-cell dynamics and thymic function during persistent immune activation
Houten, Sander	Dutch	IGBMC, Illkirch, France	Academic Medical Center, Amsterdam, The Netherlands	Feedback inducible SREBP-driven reporter gene expression in transgenic mice
Potma, Eric	Dutch	Harvard University, Boston, USA	Harvard University, Boston, USA	A different light on lipid dynamics: CARS microscopy of lipid phases in giant unilamellar vesicles
te Welscher, Pascal	Dutch	Stazione Zoologica "Anton Dohrn", Naples, Italy	Utrecht University, The Netherlands	Development of the ascidian central nervous system
Van Attikum, Haico	Dutch	University of Geneva, Switzerland	Institute of Molecular Plant Sciences, Leiden University, The Netherlands	The role of ATM kinases in telomere anchoring, telomere length maintenance and double-strand break repair
van Drogen, Frank	Dutch	The Scripps Research Institute, La Jolla, USA	The Scripps Research Institute, La Jolla, USA	Characterization of the tumour suppressor role of the F-box protein hCDC4
van Rij, Ronald	Dutch	University of California, San Francisco, USA	CLB/Sanquin, Amsterdam. The Netherlands	RNA interface as a cellular antiviral response in mammals
Vos, Johannes	Dutch	EMBL, Heidelberg, Germany	Wageningen University, The Netherlands	Mechanistic roles of motor proteins involved in the formation of antiparallel microtubule arrays in the spindle
United Kingdom				
Ali, Iraj	British	University of California, Santa Cruz, USA	RiboTargets Ltd, Cambridge, UK	Mapping the position of IF2 and RF1 on the prokaryotic ribosome; Implications for translation initiation termination
Benton, Richard	British	The Rockefeller University, New York, USA	University of Cambridge, UK	Genes and circuits controlling the olfactory response in Drosophila larvae
Campbell, Douglas	British	University of Utah Medical Center, Salt Lake City, USA	University of Cambridge, UK	Characterization of branching and synaptogenesis during the development of the zebrafish retinotectal projection
Daley, Daniel	British	Stockholm University, Sweden	Stockholm University, Sweden	Structural and functional characterization of the inner membrane proteome of <i>E. coli</i>

EMBO long-term fellowship awards 2002

country & name	nationality	guest laboratory	previous laboratory	research interest
Georgiou, Marios Andrew	British	IMP, Vienna, Austria	Kings College London, UK	An investigation into the development and function of distinct neuronal morphologies in the optic lobe of the <i>Drosophila</i> brain
Markwick, Phineus	British	EMBL, Heidelberg, Germany	EMBL, Heidelberg, Germany	Protein/RNA recognition in the splicing factor 1/pre-mRNA complex: A multi-dimensional NMR spectroscopy and <i>ab initio</i> computer simulation study.
Stewart, Grant	British	Howard Hughes Medical Institute, Houston, USA	Birmingham University, UK	Assess the function of the novel KIAA0170 protein and its potential role in the biochemical signaling following DNA damage
Wade, Joseph	British	Harvard Medical School, Boston, USA	Harvard Medical School, Boston, USA	Mechanisms of transcription activation in yeast
Wilson, Sara	British	Columbia University, New York, USA	Columbia University, New York, USA	Development of commensal relay neurons
Zubieta, Chloe	British	EMBL, Heidelberg, Germany	EMBL, Grenoble, France	Structural studies of adenovirus penton and penton base
other nationalities				
Bardin, Allison	American	Ecole Normale Supérieure, Paris, France	Massachusetts Institute of Technology, Cambridge, USA	Investigating neuralized function and regulation during asymmetric cell division in <i>Drosophila melanogaster</i>
Iverson, Tina	American	Imperial College, London, UK	California Institute of Technology, Pasadena, USA	Molecular mechanisms of transport by major facilitator superfamily proteins
Plaster, Nikki	American	MPI of Immunobiology, Freiburg, Germany	MPI of Immunobiology, Freiburg, Germany	Genetic and molecular analysis of pharyngeal arch development in zebrafish
Tee, Andrew	American	Harvard Medical School, Boston, USA	Harvard Medical School, Boston, USA	Regulation of the tuberous sclerosis complex-1 and -2 gene products with respect to mammalian target of rapamycin-mediated signaling
Melen, Gustavo	Argentinean	Weizmann Institute of Science, Rehovot, Israel	University of Buenos Aires, Ciudad Universitaria, Argentina	Genome-wide transcriptional targets for patterning the <i>Drosophila</i> ventral ectoderm by the sSPI, ETS proteins
Bowser, David	Australian	MRC-LMB, Cambridge, UK	University of Melbourne, Australia	Molecular physiology of ATP-gated P2X2 channels
Labbé, Jean-Claude	Canadian	ETH Zürich, Switzerland	University of North Carolina, Chapel Hill, USA	Identification and characterization of proteins required for microtubule-cortical interactions during asymmetric cell division
Marmor, Mina D.	Canadian	Weizmann Institute of Science, Rehovot, Israel	Weizmann Institute of Science, Rehovot, Israel	The role of caveolar localisation in the regulation of ErbB receptor tyrosine kinases

country & name	nationality	guest laboratory	previous laboratory	research interest
Mechawar, Naguib	Canadian	Institut Pasteur, Paris, France	University of Montreal, Canada	Nicotinic receptors and neocortical development
Pelletier, Laurence	Canadian	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Yale University School of Medicine, New Haven, USA	Functional characterization of proteins involved in centrosome duplication and maturation in <i>C. elegans</i> and <i>X. laevis</i>
Glavic Maurer, Alvaro	Chilean	Universidad Autónoma de Madrid, Spain	University of Chile, Santiago, Chile	Drosophila, veins, development, Notch, pathway
Linker, Claudia	Chilean	University College, London, UK	LGPD/IBDM, Marseille, France	Role of cell death in neural induction and neural crest development
Ulloa Darquea, Fausto Alexander	Ecuadorian	National Institute for Medical Research, London, UK	IMIM, Barcelona, Spain	Regulation of neural patterning, gene regulation, vertebrate CNS
Balasubramanian, Sureshkumar	Indian	MPI of Developmental Biology, Tübingen, Germany	MPI of Developmental Biology, Tübingen, Germany	Quantitative genetic approaches to thermo-regulation of floral induction
Ariyoshi, Mariko	Japanese	MRC, Cambridge, UK	MRC, Cambridge, UK	Structural and functional studies of the transcriptional repression complex mediated by the nuclear receptor co-repressor SHARP
Suzuki, Satoko	Japanese	IMP, Vienna, Austria	IMP, Vienna, Austria	Analysis of Rho family small GTPases in axon guidance of Drosophila
Tomita, Koichi	Japanese	MPI of Neurobiology, Martinsried, Germany	MPI of Neurobiology, Martinsried, Germany	Molecular cloning of axonal guidance cues involved in the formation of ocular dominance columns in cat visual cortex
Yasukawa, Takehiro	Japanese	MRC, Cambridge, UK	MRC, Cambridge, UK	Role of replication in the fixation of pathological mitochondrial DNA mutations
Jasaitis, Audrius	Lithuanian	Ecole Polytechnique, Palaiseau, France	Institute of Biotechnology, Helsinki, Finland	Primary intra-molecular processes of signal transduction in heme-based oxygen sensors studied by ultrafast spectroscopy
Chami, Mounia	Malaysian	Section of General Pathology, University of Ferrara, Italy	Section of General Pathology, University of Ferrara, Italy	Intracellular calcium homeostasis, oncogenes and apoptosis: implication of BCL-2 family
Kim, Minsung	South Korean	John Innes Centre, Norwich, UK	University of California at Davis, USA	Development and evolution of floral symmetry

number and percentage of long-term fellowship applications and awards from 1998 – 2002

country of origin	number of applications	% of total	number of awards	% of total awards
Austria	53	1,41	14	1,77
Belgium	70	1,86	12	1,52
Croatia*	13	0,34	2	0,25
Czech Republic	24	0,64	4	0,51
Denmark	44	1,17	10	1,26
Finland	42	1,11	12	1,52
France	803	21,31	164	20,73
Germany	455	12,07	116	14,66
Greece	74	1,96	20	2,53
Hungary	34	0,90	11	1,39
Iceland	2	0,05	0	-
Ireland	32	0,85	6	0,76
Israel	211	5,60	47	5,94
Italy	251	6,66	51	6,45
Netherlands	153	4,06	56	7,08
Norway	14	0,37	1	0,13
Poland*	23	0,61	2	0,25
Portugal	32	0,85	12	1,52
Slovenia	10	0,27	0	-
Spain	479	12,71	82	10,37
Sweden	128	3,40	20	2,53
Switzerland	71	1,88	20	2,53
Turkey	13	0,34	1	0,13
United Kingdom	264	7,00	38	4,80
East Europe	86	2,28	11	1,39
USA/Canada	145	3,85	43	5,44
Others	243	6,45	36	4,55
Total	3769	100	791	100

* not member for the full-time period

long-term fellowships pattern of applications and awards 1978 – 2002

year	applications	awards
2002	789	178 (23%)
2001	645	147 (23%)
2000	707	155 (22%)
1999	830	167 (20%)
1998	790	144 (18%)
1997	831	185 (22%)
1996	898	160 (18%)
1995	877	147 (17%)
1994	806	176 (22%)
1993	739	199 (27%)
1992	626	142 (23%)
1991	571	139 (24%)
1990	526	123 (23%)
1989	460	118 (26%)
1988	455	141 (31%)
1987	383	120 (31%)
1986	333	90 (27%)
1985	340	92 (27%)
1984	305	112 (37%)
1983	294	103 (35%)
1982	276	91 (33%)
1981	274	111 (41%)
1980	242	108 (45%)
1979	254	101 (40%)
1978	235	101 (43%)

applications

to	from	Austria	Belgium	Croatia	Cyprus	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	USA	others	total
Austria						1			2	1															1			2	7	
Belgium					1				4	1					1											1			8	
Croatia																													0	
Cyprus																													0	
Czech Rep.																													0	
Denmark		2							1														1		1				5	
Finland								3															1		2				6	
France			1	1			1	1	5	6	4	2			1	5	3					17	1	2		4	3	4	10	71
Germany		2	2			1	2	1	5	1	1				1	6	2		2	2		6	2			2	2	3	13	56
Greece											1					1													2	
Hungary												1																	1	
Iceland																													0	
Ireland																						1							1	
Israel									1	1															2		1	1	6	
Italy			2						1	1		1	1	1	1	8	1		1			2					1	8	29	
Netherlands							2			2	3					1						4	1		1	3			17	
Norway																						1	1						2	
Poland																													0	
Portugal																1				2					1				4	
Slovenia																													0	
Spain									4				1									4	1						9	19
Sweden								1	2	3					1	1	1					5	1		2			3	20	
Switzerland		1		1		1		1	20	6		2			1	2	2		3			7	1		1	2	1	3	55	
Turkey																													0	
UK		1	2				2	1	30	11	2	2		1	9	9	1	1	1	2		24	8	1		1	1	5	19	134
EMBL		1					1		5	5	1	1				2	1					3				1	1	1	2	25
East Europe																													0	
USA		6	5		1			6	72	36	2			1	39	24	12	2	3	3	1	33	15	7	4	34			305	
others							1		1						2	1	1					4	2	1		3			16	
total		13	12	2	2	3	9	11	156	74	14	9	1	4	56	61	24	3	10	9	1	111	33	13	6	54	10	19	70	789

awards

to	from	Austria	Belgium	Croatia	Cyprus	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	USA	others	total
Austria									2	1															1			1	5	
Belgium					1				1																				2	
Croatia																													0	
Cyprus																													0	
Czech Rep.																													0	
Denmark																													0	
Finland									1																				1	
France							1		1	3	1						2					7	1			1	1	2	20	
Germany		1					1	1		1	1				1	1	1			1		1						2	2	14
Greece											1																		1	
Hungary																													0	
Iceland																													0	
Ireland																													0	
Israel																											1	1	2	
Italy															1	3	1											1	6	
Netherlands							1			1	2																		4	
Norway																													0	
Poland																													0	
Portugal																				1									1	
Slovenia																													0	
Spain									2																			1	3	
Sweden										1																1			2	
Switzerland								4	2		1					1		1				1	1				1		12	
Turkey																													0	
UK	1						1	8	2						1	1						8	3	1			1	6	33	
EMBL								5	2	1	1					1	1					1			1				13	
East Europe																													0	
USA	3	2					1	15	8						5	4	4			1		4	4		7				58	
others																	1												1	
total		4	3	0	1	0	3	3	39	21	6	2	0	0	8	10	11	0	1	3	0	22	5	5	0	11	1	7	12	178

EMBO short-term fellowship awards

country & name	nationality	guest laboratory	home laboratory	research interest
Austria				
Eichberger, Thomas	Austrian	University of London, UK	University of Salzburg, Austria	Over-expression of GL12 in primary human keratinocytes
Kurz, Christian	Austrian	University of Warwick, UK	Institute of Medical Biochemistry, Vienna, Austria	Study of the ER retrotranslocation of the toxic protein, ricin A chain
Belgium				
Devloo, Vincent	Belgian	Université de la Méditerranée CNRS, Marseille, France	Service de Conformation des Macromolécules Biologiques, Brussels, Belgium	Application of automated logical analysis tools to gene networks involved in the control cell cycle and of cell differentiation during <i>Drosophila</i> development
Lakaye, Bernard	Belgian	MPI for Medical Research, Heidelberg, Germany	University of Liège, Belgium	Use of conditional gene expression and gene targeting to study the role of thiamine triphosphate
van de Velde, Willem	Belgian	CNRS, Gif-sur-Yvette, France	University of Ghent, Belgium	<i>A. tumefaciens</i> transformation and manipulation of the model legume <i>Medicago truncatula</i>
Verkest, Aurine	Belgian	CNRS, Strasbourg, France	University of Ghent, Belgium	An <i>Arabidopsis thaliana</i> ring finger protein possibly involved in ubiquitination-dependent degradation of CDK inhibitors
Croatia				
Jajcinovic, Martina	Croatian	DKFZ, Heidelberg, Germany	Laboratory for Molecular Biology, Zagreb, Croatia	Identification and characterization of nuclear import and export sequences of the HPV-16 E6 and E7 oncoproteins
Majhen, Dragomira	Croatian	UMR 1161, Maisons Alfort, France	Ruder Boskovic Institute, Zagreb, Croatia	Human adenovirus type 5 retargeted on aminopeptidase N
Plohl, Miroslav	Croatian	IBMB-CSIC, Barcelona, Spain	Ruder Boskovic Institute, Zagreb, Croatia	Characterization of subtelomeric sequences associated with telomeric repeats in invertebrates containing the vertebrate-type telomeric sequence (TTAGGG)
Czech Republic				
Matalova, Eva Maria	Czech	King's College Hospital, London, UK	Academy of Sciences, Brno, Czech Republic	Tooth promordia explant culture in apoptosis research
Novak, Petr	Czech	Instituto de Ciencia Aplicada e Tecnologia, Lisbon, Portugal	Institute of Plant Molecular Biology, Ceske Budejovice, Czech Republic	Antisense RNA targeting of chalcone synthase homologues involved in lupulin biosynthesis of hop (<i>Humulus lupulus L.</i>)
Vlasakova, Marketa	Czech	National and Public Health Institute, Helsinki, Finland	Institute of Biochemistry, Vienna, Austria	Receptor binding site sequence in minor group HRVs
France				
Baas, Dominique	French	University of Geneva, Switzerland	Centre de Genetique Moleculaire et Cellulaire, Villeurbanne, France	Function of the EFX3 transcription factor in mouse development

country & name	nationality	guest laboratory	home laboratory	research interest
Baudoux, Sylvie	French	MPI for Neurobiology, Martinsried, Germany	University College, London, UK	Projections from the low-frequency region of the DNLL to the IC
Charollais, Julie	French	MPI for Molecular Genetics, Berlin, Germany	Ecole Normale Supérieure, Paris, France	Role of two <i>E. coli</i> DEAD-box RNA helicases, SrmB and CsdA, in ribosome assembly: <i>In vitro</i> ribosome reconstitution experiment
Dalous, Jérémie	French	MPI for Biochemistry, Martinsried, Germany	CNRS, Grenoble, France	Actin cytoskeleton dynamics of living cells under shear forces
Dussurget, Olivier	French	Università degli Studi di Milano-Bicocca, Milan, Italy	Institut Pasteur, Paris, France	A functional genomic approach to monitor specific deregulation of the host-dendritic cell gene expression by <i>Listeria monocytogenes</i>
Guibal, Florence	French	Eramus Institute, Rotterdam, The Netherlands	INSERM U417, Paris, France	ASB-2 function in myeloid development
Guyader, Mireille	French	The Scripps Research Institute, La Jolla, USA	CIML, Marseille, France	Immune correlates of protection against HIV-1
Meyer, Etienne	French	ETH Zürich, Switzerland	CNRS, Strasbourg, France	Functional complementation of one <i>E. coli</i> cytochrome c maturation mutant by its plant cDNA orthologue
Stahl, Marie	French	CNRS-UMR 5535, Montpellier, France	Dutch Cancer Institute NKI, Amsterdam, The Netherlands	The role of Forkhead transcription factors in cell-cycle control
Stricher, Francois	French	EMBL, Heidelberg, Germany	CEA Saclay, Gif-sur-Yvette, France	Design of functional miniproteins, inhibitors of protein-protein interaction
Trousse, Françoise	French	CNRS/UPS, Toulouse, France	Cajal Institute, CSIC, Madrid, Spain	Role of Sfrp1 on the generation of cellular diversity in the developing spinal cord
Germany				
Hemschemeier, Anja	German	CEA Cadarache, Saint Paul le Durance, France	University of Bonn, Germany	<i>In vitro</i> Interactions between photosynthesis chlororespiration and H ₂ -metabolism in sulfur-deprived green algae
Hoff, Antje	German	Université de la Méditerranée, Marseille, France	Institute for Cell Biology, University of Tübingen, Germany	Development of a naive murine signal transduction T-cell model
Kessler, Alexandra	German	Hutchinson MRC Centre, Cambridge, UK	University of Regensburg, Germany	Transcriptional regulation of the genes of the archaeal reovirus SIRV <i>in vitro</i>
Nühse, Thomas	German	University of Southern Denmark, Odense, Denmark	Sainsbury Laboratory, Norwich, UK	Phosphoproteomics by mass spectrometry: Application to signal transduction at the Arabidopsis plasma membrane
Priller, Josef	German	Zürich University Hospital, Switzerland	Charité Humboldt University, Berlin, Germany	Microglial delivery of single chain anti-prion protein antibody to the scrapie-infected brain
Shah-Hosseini, Kijwasch	German	University of Zürich, Switzerland	University of Cologne, Germany	Exploring a novel function associated with the non-homologous end-joining pathway of DNA double-strand break repair

EMBO short-term fellowship awards

country & name	nationality	guest laboratory	home laboratory	research interest
Greece				
Aidinis, Vassilis	Greek	Uppsala University, Sweden	BSRC, Athens, Greece	A search for TNF related genes, gene networks and pathways involved in synovial fibroblast activation and the pathogenesis of rheumatoid arthritis
Baritaki, Stavroula	Greek	Institute of Hygiene, University of Heidelberg, Germany	IMBB FORTH, Heraklion, Greece	HIV, Th-cells, macrophages, activation, apoptosis
Christodoulou, Androulla	Greek	EMBL, Heidelberg, Germany	University of Cyprus, Nicosia, Cyprus	Investigation of the motility properties of the kinesin-like protein KIFC5A
Kitrilaki, Maria	Greek	Cancer Research, London, UK	University of Patras, Rio, Greece	Use of a re-replication assay in fission yeast as a way of investigating cross-species complementation and the effects of chromatin structure on replication
Kotsyfakis, Michalis	Greek	CNRS, Strasbourg, France	IMBB FORTH, Crete, Greece	Molecular identification of Drosophila proteins binding the rodent malaria parasite <i>Plasmodium berghei</i>
Makatsori, Dimitra	Greek	EMBL, Heidelberg, Germany	University of Ioannina, Greece	Immunolocalisation of emerlin and LAP2
Stefanidi, Eleni	Greek	Technische Universität Hamburg-Harburg (TUHH), Hamburg, Germany	University of Athens, Greece	The molecular determinants of psychrophilicity of a chitinase from the marine bacterium <i>Moritella marina</i>
Vasilakis, George	Greek	EMBL, Heidelberg, Germany	Institute of Electronic Structure & Laser (IESL), Heraklion, Greece	<i>In vivo</i> investigation of diffusive or sub-diffusive motion of proteins in the cytosol and in membranes
Sandaltzopoulos, Raphael	Greek	EMBL, Heidelberg, Germany	Democritus University, Alexandroupolis, Greece	Characterization of an N-acetyltransferase protein complex that interacts with the nucleosome remodelling factor (NURF)
Hungary				
Bajusz, Izabella	Hungarian	University of Heidelberg, Germany	Hungarian Academy of Sciences, Szeged, Hungary	Comparative examinations of enzymatic and histone binding properties of the wild type and the "Trithorax-mimic" mutant SET domain of "Enhancer of Zeste"
Szondy, Zsuzsa	Hungarian	Karolinska Institute, Stockholm, Sweden	University of Debrecen, Hungary	Molecular mechanisms of the apoptosis inducing effects of RAR γ selective retinoids in malignant oral keratinocytes
Tarkanyi, Ilona	Hungarian	INSERM U-496, Paris, France	University of Debrecen, Hungary	Effects of the telomerase inhibitory oligonucleotides on regulation of telomerase activity and hTERT expression in leukemic cells
Iceland				
Lange, Sigrun	Icelandic	MRC, Oxford, UK	University of Iceland, Reykjavik, Iceland	The innate complement system in cod and halibut

country & name	nationality	guest laboratory	home laboratory	research interest
Ireland				
Hunt, Mary	Irish	University of Amsterdam, The Netherlands	Karolinska Institute, Stockholm, Sweden	Screening for acyl-CoA thioesterase disorders
Israel				
Babichev, Olya	Israeli	MPI for Molecular Physiology, Dortmund, Germany	Ben Gurion University of the Negev, Beer Sheva, Israel	Crystallization and determination of the 3 D structure of a novel PKC δ interacting protein (PICOT)
Harpaz-Saas, Smadar	Israeli	University of Bern, Switzerland	The Hebrew University, Jerusalem, Israel	Regulation of chlorophyll degradation: A study of breakdown products
Kashkush, Khalil	Israeli	Unité de Recherches en Génomique Végétale (URGV-INRA), Evry, France	Weizmann Institute of Science, Rehovot, Israel	The mechanism(s) of allopolyploidy-associated gene loss
Padan, Etana	Israeli	MPI for Biophysics, Frankfurt am Main, Germany	University of Jerusalem, Israel	3D crystallization of NhaA, the key Na ⁺ /H ⁺ antiporter of <i>Escherichia coli</i>
Rochman, Mark	Israeli	MPI for Microbiology, Marburg, Germany	The Hebrew University, Jerusalem, Israel	Interplay between DNA topology, FIS expression and growth rate control of ribosomal RNA synthesis
Sagee, Shira	Israeli	FIRC Institute of Molecular Oncology, Milan, Italy	Technion-Israel Institute of Technology, Haifa, Israel	The role of Cdc28 and Ime2 in initiation of premeiotic DNA replication in <i>Sacharomyces cerevisiae</i>
Vogel, Zvi	Israeli	University of Pompeu Fabra, Barcelona, Spain	Weizmann Institute of Science, Rehovot, Israel	The use of knock-out mice in studying opioid and cannabinoid signaling
Italy				
Apicella, Alfonso Junior	Italian	University of California, La Jolla, USA	Institute of Genetic and Biophysics CNR, Caserta, Italy	Functional analysis of circuits based on <i>in vivo</i> Ca ²⁺ imaging in <i>Caenorhabditis elegans</i>
Bossi, Roberto	Italian	University of Groningen, The Netherlands	University of Pavia, Italy	Expression, purification and structural analysis of mammalian alkyl dihydroxyacetone phosphate synthase
Conte, Ivan	Italian	Cajal Institute, CSIC, Madrid, Spain	Institute of Genetics and Biophysics CNR, Naples, Italy	Investigation of genetic aetiology of developmental eye defects: Microphthalmia, anophthalmia and coloboma (MAC)
Cortese, Katia	Italian	University Medical Centre, Utrecht, The Netherlands	University of Genoa, Italy	Role of lipid rafts in urokinase receptor membrane distribution and internalization
Cunsolo, Vincenzo	Italian	University of Southern Denmark, Odense, Denmark	University of Catania, Italy	Proteomics of cereal seeds by SDS gel electrophoresis high performance liquid chromatography and advanced mass spectrometric methods
De Andrea, Marco	Italian	DKFZ, Heidelberg, Germany	Medical School of Torino, Italy	Ability of HPV E7 oncoprotein to neutralize the activity of the interferon-inducible protein Irf16

EMBO short-term fellowship awards

country & name	nationality	guest laboratory	home laboratory	research interest
Di Serio, Francesco	Italian	Friedrich Miescher Institute, Basel, Switzerland	University of Bari, Italy	Possible functions of RNA-dependent RNA polymerases in posttranscriptional gene silencing and in plant/viroid interactions
Fraldi, Alessandro	Italian	UMR 8541 CNRS, Paris, France	University of Naples, Italy	<i>In vivo</i> analysis of dynamic association between P-TEFb and its molecular cofactors
Gestri, Gaia	Italian	University College, London, UK	University of Pisa, Italy	Functional study of vsp role in zebrafish eye development
Giuliodori, Silvia	Italian	CEA/Saclay, Gif-sur-Yvette, France	University of Parma, Italy	Genetic analysis of mutations in the yeast RNA polymerase III transcription system: Isolation of second site suppressors
Kahya, Nicoletta	Italian	MPI for Biophysical Chemistry, Göttingen, Germany	University of Groningen, The Netherlands	Membrane protein dynamics in a close-to-native system: Diffusion and aggregation studied by cross-correlation spectroscopy
Montecucco, Cesare	Italian	Institut Pasteur, Paris, France	University of Padova, Italy	Test the protective effect of selective inhibitors of the anthrax lethal factor with respect to death from anthrax in laboratory animals
Musco, Giovanna	Italian	EMBL, Heidelberg, Germany	Dibit-Ospedale San Raffaele, Milan, Italy	Solution structure determination of the first PHD finger of AIRE1
Papinutto, Elena	Italian	The Trinity Centre for Health Science, Dublin, Ireland	University of Padova, Italy	Structural biology of proteins of the thioredoxin superfamily from <i>Helicobacter pylori</i>
Penengo, Lorenza	Italian	Weizmann Institute, Rehovot, Israel	Laboratory of Molecular and Cell Biology, Novara, Italy	Effect of Cb1 adaptor on Ron receptor down-regulation
Perrini, Barbara	Italian	The Stowers Institute for Medical Research, Kansas City, USA	Universita degli Studi La Sapienza, Rome, Italy	Mutational analysis of telomere proteins by gene targeting in <i>Drosophila</i>
Salvi, Mauro	Italian	University of Dundee, UK	University of Padova, Italy	Purification and identification of a mitochondrial tyrosine phosphorylated protein
Storlazzi, Clelia	Italian	Lund University Hospital, Lund, Sweden	University of Bari, Italy	Molecular genetic analysis of EVI1 and CDK6 in haematologic disorders with t(3;7)(q26;q21)
Tarsitano, Marina	Italian	Mount Sinai Hospital, Toronto, Canada	International Institute of Genetics and Biophysics, Naples, Italy	Identification and characterization of pv1-1 gene in <i>C. elegans</i> , member of the PDGF/VEGF family
Norway				
Winther-Larsen, Hanne	Norwegian	University of Utrecht, The Netherlands	University of Oslo, Norway	Resolving the localisation of minor pilins in <i>Neisseria gonorrhoeae</i> and their function in adherence to human cells
Poland				
Bucko, Martha	Polish	University of Utrecht, The Netherlands	International Institute of Molecular and Cell Biology, Warsaw, Poland	Study on the activation of testis-specific TSSK-3 kinase in heterologous systems

country & name	nationality	guest laboratory	home laboratory	research interest
Macias, Matylida	Polish	Centre for Molecular Neurobiology, Hamburg, Germany	Nencki Institute of Experimental Biology, Warsaw, Poland	Modulation of psinal neurotrophin and CAM mRNAs expression by physical training in adult rats
Minczuk, Michal	Polish	Wellcome Trust, Cambridge, UK	University of Warsaw, Poland	Use of recombinant zinc fingers to manipulate mutant human mtDNA replication and the expression of mitochondrial genes
Piwowarski, Jan	Polish	University of Manchester, UK	University of Warsaw, Poland	Purification of the mitochondrial TIM10 complex
Rudka, Tomasz	Polish	Centre for Human Genetics, Leuven, Belgium	International Institute of Molecular Biology, Warsaw, Poland	Interactions between presenilin, the putative γ -secretase and calmyrin
Portugal				
Borges Pinto, Pedro Alexandre	Portuguese	MRC, Hammersmith Hospital Campus, Imperial College, London, UK	University of Porto, Portugal	Localisation of polo mRNAs in <i>Drosophila</i> Schneider cells
Madureira, Patricia	Portuguese	Imperial College School of Medicine, London, UK	Instituto Gulbenkian de Ciencia, Oeiras, Portugal	The role of the M2 protein of murine gamma-herpesvirus 68 in modulating the signals from the antigen receptor in B-cells
Slovenia				
Gabrovsek, Mojca	Slovenian	Institute of Psychiatry, London, UK	University of Ljubljana, Slovenia	Functional analysis of a novel SNP in the muscarinic M3 reception gene promoter
Strancar, Janez	Slovenian	Austrian Academy of Sciences, Graz, Austria	Jozef Stefan Institute, Ljubljana, Slovenia	SAXS and EPR study of the defect in the rehydrated surface-deposited lipids
Spain				
Aguilella-Arzo, Marcel	Spanish	University of Verona, Italy	University Jaume I, Castelló, Spain	Electrostatics of biomolecules
Arribas, Joaquin	Spanish	EMBL, Heidelberg, Germany	Vall d'Hebron University Hospital, Barcelona, Spain	Identification of novel substrates of metalloprotease disintegrins
Carro Diaz, Eva Maria	Spanish	Institut Pasteur, France	Cajal Institute, CSIC, Madrid, Spain	Choroid plexus transduction using a viral amplicon that encodes a dominant negative mutant of the IGF-I receptor
Casqueiro-Blanco, Francisco Javier	Spanish	University of Hannover, Germany	University of Leon, Spain	Subcellular localisation of the homoaconitase from <i>Penicillium chrysogenum</i>
Castellano-Munoz, Manuel	Spanish	EMBL, Heidelberg, Germany	University of Seville, Spain	Proteomic analysis of brain in CSP (cysteine string protein) knock-out mice
de Celis, Jose Felix	Spanish	University of Cambridge, UK	Universidad Autónoma de Madrid, Spain	Search for Spalt target genes in the <i>Drosophila</i> wing
Diaz Hernandez, Miguel	Spanish	MPI for Experimental Medicine, Germany	Universidad Complutense de Madrid, Spain	Study of the dinucleotide responses on heteromeric P2X receptors expressed in oocytes

EMBO short-term fellowship awards

country & name	nationality	guest laboratory	home laboratory	research interest
D'Guadalupe Sabio, Buzo	Spanish	University of Dundee, UK	Universidad de Extremadura, Caceres, Spain	Interaction of the SAPK3/p38y with PDZ domain containing proteins
Dominguez Castellano, Maria	Spanish	MRC, Cambridge, UK	UMH-CSIC, San Juan de Alicante, Spain	Molecular genetics of tissue-specific growth control
Falcon, Ana	Spanish	Mount Sinai School of Medicine, New York, USA	National Centre of Biotechnology, Madrid, Spain	Pathogenesis of NS1-mutant influenza viruses in mice
Fernandez-Fuentes, Narcis	Spanish	Imperial College, London, UK	Universitat Autònoma de Barcelona, Spain	Studies on the interrelationships of sequence structure function in protein loops; application to genome annotation
Fernandez-Minan, Ana Maria	Spanish	EMBL, Heidelberg, Germany	CSIC, Granada, Spain	Analysis of a collection of transgenic Drosophila strains. Study of their gain-of-function phenotype during Drosophila oogenesis
Gils, Rebeca Valero	Spanish	Karolinska Institute, Stockholm, Sweden	Faculty of Biology, University of Barcelona, Spain	Functional characterization of USP25
Hernandez-Hernandez, Angel	Spanish	IMP, Vienna, Austria	Institute of Cancer Research, London, UK	Regulation of transcription factor levels during haemopoiesis
Herranz, Hector	Spanish	University of Cambridge, UK	Universidad Autònoma de Madrid, Spain	A study of pannier function in Anopheles embryos
Jose Blanco, Maria	Spanish	University College, London, UK	Cajal Institute, CSIC, Madrid, Spain	Neurogenic function of scratch in zebrafish
Llorian Sopena, Mariam	Spanish	Catholic University of Leuven, Belgium	University of Cantabria, Santander, Spain	Characterization of the interaction among protein phosphatase 1 and a new regulatory subunit
Martinez-Garcia, Jaime	Spanish	University of Oxford, UK	Institute of Molecular Biology, CSIC, Barcelona, Spain	Direct KNOX control of GA pathway gene expression in Arabidopsis
Moreno-Flores, Teresa	Spanish	King's College, London, UK	Universidad Autònoma de Madrid, Spain	Characterization <i>in vivo</i> of the regenerative properties of immortalised OEG in CNS
Perez, Antonio	Spanish	EMBL, Heidelberg, Germany	Universidad de Malaga, Spain	Derivation of gene ontology annotations from abstracts in medline in order to computationally extract functional information for proteins
Perea-Gomez, Aitana	Spanish	University of Cambridge, UK	Institut Jacques Monod, Paris, France	Analysis of the spatial relation between the sperm entry position and the anterior posterior axis in the mouse embryo
Planells Cases, Rosa	Spanish	University of Hamburg, Germany	University Miguel Hernandez (UMH), Eiche Alicante, Spain	Role of chloride channel CIC-7 in retinal degeneration
Rodríguez Moreno, Antonio	Spanish	University College, London, UK	University Pablo de Olavide, Seville, Spain	Mechanisms of kainate receptor modulation of glutamate release in hippocampal mossy fiber synapses
Rubio, Narzario	Spanish	Institute Cavalievi Ottolenghi, Torina, Italy	Cajal Institute, CSIC, Madrid, Spain	Myelination of hippocampal neurons by oligodendrocytes in culture

country & name	nationality	guest laboratory	home laboratory	research interest
Sanchez Silva, Rocio	Spanish	UMR 7098 CNRS, Paris, France	University of Seville, Spain	Assessing the tRNA suppressor activity in peritrich ciliates
Suarez Rodriguez, Dimas	Spanish	Institute for Structural Biology (IBS), Grenoble, France	University of Oviedo, Spain	Molecular modelling of substrate binding and substrate activation in human butyrylcholinesterase
Trejo, Jose Luis	Spanish	King's College Hospital, London, UK	Cajal Institute, CSIC, Madrid, Spain	Role of 16F-A in the differentiation of embryonic and adult precursor cells
Tormo-Mas, Maria	Spanish	University of Tübingen, Germany	Cardenal Herrera-CEU University, Valencia, Spain	Role of Bhp (Bap homologue protein) in biofilm formation
Valls, Marc	Spanish	DKFZ, Heidelberg, Germany	National Centre of Biotechnology, Madrid, Spain	Identification of sigma 54 dependent promoters in <i>Pseudomonas putida</i> genome and study of their expression using DNA microarrays
Villa, Jordi	Spanish	Imperial College of Science, London, UK	MIM/UPF, Barcelona, Spain	Protein-protein interactions in signal transduction cascades: An <i>in silico</i> study
Sweden				
Andersson, Katja	Swedish	Imperial College, London, UK	Karolinska Institute, Stockholm, Sweden	Visualising synapse formation in mouse natural killer cells
Hjort, Karin	Swedish	University of Regensburg, Germany	Uppsala University, Sweden	Virus infection at 80° C
Switzerland				
Lippuner, Christoph	Swiss	Edinburgh University, UK	MPI for Infection Biology, Berlin, Germany	Establishment of a fluorescence-based model for analysis of the dynamics and composition of organelles harbouring intracellular pathogens
The Netherlands				
Bikker, Floris	Dutch	DKFZ, Heidelberg, Germany	Academic Centre of Dentistry, Amsterdam, The Netherlands	Structure/function relationships of salivary agglutinin/brain DMBT1
Mulder, Klaas	Dutch	CMU, Geneva, Switzerland	University Medical Centre, Utrecht, The Netherlands	Screening for second-site suppressors of not4 ring-finger mutants
Oomen, Ronald	Dutch	University of Newcastle, UK	Wageningen University, The Netherlands	Exploring the relevance of carbohydrate-binding modules in plant cell wall remodelling
Ouwendijk, Joke	Dutch	MPI for Molecular Cell Biology, Dresden, Germany	EMBL, Heidelberg, Germany	Comparing fixation methods to study transport intermediates near the Golgi apparatus
Turkey				
Cibik, Recep	Turkish	University of Groningen, The Netherlands	Uludag University, Bursa, Turkey	Identification of cell wall located proteins of <i>Lactococcus lactis</i>
Doruker, Pemra	Turkish	Karolinska Insititute, Huddinge, Sweden	Bogazici University, Istanbul, Turkey	Coarse-grained modelling of DNA-protein complexes

EMBO short-term fellowship awards

country & name	nationality	guest laboratory	home laboratory	research interest
Turgan, Nevbahar	Turkish	Lund University, Sweden	Ege University School of Medicine, Bornova, Turkey	A new assay to measure thrombomodulin activity in plasma and urine
United Kingdom				
Chilton, John	British	INSERM U106, Paris, France	King's College, London, UK	The role of neuropilin-2 and semaphorin3A in the development of the oculomotor nerve
Franca-Koh, Jonathan	British	Netherlands Cancer Institute, Amsterdam, The Netherlands	Institute of Cancer Research, London, UK	An investigation into the role of the Frat oncogene in regulating GSK-3 localisation and nuclear export
Groves, Patrick David	British	Lund University, Sweden	Nencki Institute, Warsaw, Poland	The interaction between primary calretinin limited proteolysis fragments is stable
Horsburgh, Malcolm	British	Eijkman Winkler Institute, Utrecht, The Netherlands	University of Sheffield, UK	Survival of <i>S. aureus</i> in human neutrophils
Lilley, David	British	University of Illinois, Urbana, USA	University of Dundee, UK	Single molecule studies of DNA folding
Locklin, Rachel	British	The Weizmann Institute of Science, Rehovot, Israel	University of Oxford, UK	Insertion of mutagenised fragments of Fgfr3 into ES cells by homologous recombination
Sharpe, James	British	Universidad Autónoma de Madrid, Spain	MRC, Western General Hospital, Edinburgh, UK	Extending the capabilities of optical projection tomography: 3D imaging of living developmental tissue
Smith, Clare Mary	British	University of Messina, Italy	University of Leicester, UK	Identification of peptide mimotypes of pneumococcal polysaccharide using a phage display library
Stacey, Joanna	British	Erasmus University, Rotterdam, The Netherlands	University of Oxford, UK	Role of GATA3 in the embryonic development of the parathyroids
Stock, Christine	British	ENS, Lyon, France	Edinburgh University, UK	Effects of Polycomb-group gene mis-expression upon seed development in Arabidopsis
Others				
Demetrius, Lloyd	American	University of Basel, Switzerland	MPI for Biophysical Chemistry, Göttingen, Germany	Molecular recognition: An evolutionary perspective
Ostendorff, Heather	American	Institut Alfred Fessard, Gif-sur-Yvette, France	University of Hamburg, Germany	Protein expression pattern of LIM cofactors
Poinar, Henrik	American	Imperial Cancer Research Fund, South Mimms, UK	MPI for Evolutionary Anthropology, Leipzig, Germany	Base excision repair, ancient DNA, DNA damage, DNA quantitation
Toledo-Arana, Alejandro	Argentinian	Institut Pasteur, Paris, France	Universidad Pública de Navarra, Pamplona, Spain	Identification and characterization of genes responsible for the formation of biofilms by <i>Listeria</i>
Brychkova, Galina	Belarusian	John Innes Centre, Norwich, UK	National Academy of Sciences, Minsk, Belarus	Over-expression of rhamnolipids as anti-microbial and antifungal compounds in plants
de Oliveira Manes, Carmen Lara	Brazilian	INRA, Versailles, France	University of Ghent, Belgium	Evaluation of cell division rate at the shoot apical meristem in cell cycle overexpressing Arabidopsis mutants lines via confocal microscopy

country & name	nationality	guest laboratory	home laboratory	research interest
Freitas Junior, Lucio Holanda	Brazilian	The Walter & Eliza Hall Institute of Medical Research, Melbourne, Australia	Institut Pasteur, Paris, France	Transfection as a tool to study nuclear factors that control antigenic variation in <i>Plasmodium falciparum</i>
Qin, Ling	Chinese	University of Ghent, Belgium	University of Wageningen, The Netherlands	Functional study of the effects of the ectopically expressed menatode RanBPM-lie proteins on tobacco BY-2 cells
Yu, Ling	Chinese	University of Würzburg, Germany	The Hebrew University of Jerusalem, Rehovot, Israel	Functional homologous (in planta) expression of plant K channel genes
Dube, Prakash	Indian	IMP, Vienna, Austria	MPI for Biophysical Chemistry, Göttingen, Germany	Location of specific subunits in anaphase promoting complex using fab fragments and cryoelectron microscopy
Benjelloun, Fatine	Moroccan	Université Libre de Bruxelles, Brussels, Belgium	INSERM U 467, Paris, France	Function of the human Rh glycoproteins in ammonium transport: Study of structure / function relationship
Negroi, Gabriela	Romanian	University Medical Centre, Utrecht, The Netherlands	Institute of Biochemistry, Bucharest, Romania	Characterization of p110, a novel rab27a effector protein
Dmitriev, Peter	Russian	MRC, Cambridge, UK	Lomonosov Moscow State University, Russia	Investigation of yeast telomerase components crystallography approach
Dontsova, Maria	Russian	EMBL, Grenoble, France	Institute of Protein Research, Pushchino, Russia	Archaeal ribosomal proteins L10 and L12; crystallization and structural studies of the protein-protein and RNA-protein complexes
Kozlova, Natalia	Russian	University of Lisbon, Portugal	Stockholm University, Sweden	Analysis of MRNA movement in living cells by FRAP
Kouprianova, Elena	Russian	Umeå University, Umeå, Sweden	Institute of Plant Physiology RAS, Moscow, Russia	Carbonic anhydrases in alcalophilic cyanobacteria
Malashichev, Yegor	Russian	Albert-Ludwig University, Freiburg, Germany	Petersburg State University, Russia	Molecular characterization of cells and gene signaling in development of the chick pelvis
Mittova, Valentina	Russian	IACR-Rothamsted, Harpenden, UK	University of the Negev, Sede Booker, Israel	A molecular strategy for improved salt tolerance in <i>Arabidopsis thaliana</i>
Popova, Svetlana	Russian	MPI for Biochemistry, Martinsried, Germany	Uppsala University, Sweden	Investigation of the <i>in vivo</i> function of integrin $\alpha 11B1$ in developing bone and cartilage using a transgenic model
Shpanchenko, Olga	Russian	MPI for Molecular Genetics, Berlin, Germany	Lomonosov Moscow State University, Russia	Interaction of tmRNA with the ribosome
Sokolova, Anna	Russian	EMBL, Hamburg, Germany	Institute of Crystallography of RAS, Moscow, Russia	Development of a protein classification method based on small angle solution scattering patterns
Büchler, Tomas	Slovakian	Cancer Research Institute, Sutton, UK	Masaryk University Hospital, Brno, Czech Republic	Applications of microarray technology to the identification of new clinical markers to be used to improve the management of leukaemia

EMBO | short-term fellowship awards

country & name	nationality	guest laboratory	home laboratory	research interest
Janecek, Stefan	Slovakian	Carlsberg Laboratory, Valby, Denmark	Slovak Academy of Sciences, Bratislava, Slovakia	Sequence-structure features, specificities and evolutionary relationships in the alpha-amylase enzyme family, currently containing nearly 1000 sequences
Nosek, Jozef	Slovakian	Université Paris-Sud, Orsay, France	Comenius University, Bratislava, Slovakia	The role of telomere minicircles in the telomerase-independent pathway of chromosome-end maintenance

number and percentage of short-term fellowship applications and awards from 1998 – 2002

country of origin	number of applications	% of total	number of awards	% of total awards
Austria	8	0,63	4	0,53
Belgium	21	1,66	13	1,73
Croatia*	10	0,79	8	1,07
Czech Republic	26	2,05	15	2,00
Denmark	13	1,03	9	1,20
Finland	8	0,63	6	0,80
France	99	7,81	65	8,66
Germany	93	7,33	53	7,06
Greece	49	3,86	30	3,99
Hungary	33	2,60	20	2,66
Iceland	2	0,16	2	0,27
Ireland	17	1,34	10	1,33
Israel	60	4,73	39	5,19
Italy	195	15,38	118	15,71
Netherlands	31	2,44	25	3,33
Norway	10	0,79	7	0,93
Poland*	24	1,89	11	1,46
Portugal	20	1,58	11	1,46
Slovenia	10	0,79	6	0,80
Spain	205	16,17	125	16,64
Sweden	22	1,74	16	2,13
Switzerland	9	0,71	2	0,27
Turkey	28	2,21	10	1,33
United Kingdom	51	4,02	26	3,46
East Europe	148	11,67	70	9,32
Others	76	5,99	50	6,66
Total	1268	100	751	100

* not member for the full-time period

short-term fellowships pattern of applications and awards 1978 – 2002

year	applications	awards
2002	252	170 (67%)
2001	233	124 (53%)
2000	274	176 (64%)
1999	230	138 (60%)
1998	279	143 (51%)
1997	339	188 (55%)
1996	316	180 (57%)
1995	325	187 (57%)
1994	369	203 (55%)
1993	376	209 (55%)
1992	351	213 (61%)
1991	344	194 (56%)
1990	346	211 (61%)
1989	331	199 (60%)
1988	351	211 (60%)
1987	301	212 (70%)
1986	309	215 (70%)
1985	304	221 (73%)
1984	320	226 (71%)
1983	335	223 (67%)
1982	321	213 (66%)
1981	339	235 (69%)
1980	357	242 (68%)
1979	344	243 (71%)
1978	349	244 (70%)

applications

to	from	Austria	Belgium	Croatia	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	others	total
Austria								1												1	1						1	4
Belgium								1										1			1						2	5
Croatia																												0
Czech Rep.																												0
Denmark									1						1							1			2			5
Finland				1			1																					2
France			3	1			2	4	1	4				1	5			4			6			1	3	3	5	43
Germany			1	1			4		2	1				3	3	2		2		1	7	1	1		1	7	2	39
Greece								1																				1
Hungary																												0
Iceland																												0
Ireland															1													1
Israel															1										1			2
Italy							1											1			3			1	1			8
Netherlands			1		1		1		1				1		2		1	2			1			1	3	4		19
Norway																												0
Poland																												0
Portugal						2																				2		4
Slovenia																												0
Spain				1				1						1	1									1	1			6
Sweden									1	1					1						1			2	1	1		8
Switzerland				1	1		4	2						1	2	1		1			1	1	1			1		17
Turkey																												0
UK		2			1			1	2		1	1	1	1	10	3		3	3	1	20	1	1	2		7	2	62
EMBL							1		4					1	2						4						1	13
East Europe																												0
others							1								5		1	1			3				1	1		13
total		2	5	4	6	0	0	17	10	11	6	1	2	9	34	6	2	15	3	3	49	3	2	9	12	26	15	252

awards

to	from	Austria	Belgium	Croatia	Czech Rep.	Denmark	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Israel	Italy	Netherlands	Norway	Poland	Portugal	Slovenia	Spain	Sweden	Switzerland	Turkey	UK	East Europe	others	total
Austria																				1	1					1	3	
Belgium																	1				1					2	4	
Croatia																											0	
Czech Rep.																											0	
Denmark								1						1											1		3	
Finland				1																							1	
France		3	1				2	2	1	3			1	4							3			3	2	4	29	
Germany		1	1				3		2	1			3	2	2		1			6	1				5	1	29	
Greece																											0	
Hungary																											0	
Iceland																											0	
Ireland														1													1	
Israel														1											1		2	
Italy							1						1								2			1			5	
Netherlands							1					1	2			1	1							1	3	1	11	
Norway																											0	
Poland																											0	
Portugal				1																					1		2	
Slovenia																											0	
Spain			1										1	1											1		4	
Sweden									1	1				1							1			2	1	1	8	
Switzerland				1			3	2					1	2	1		1									1	12	
Turkey																											0	
UK		2		1				1	1		1			3	2		2	2	1	13	1	1			4	2	37	
EMBL							1	4					1	1							4						11	
East Europe																											0	
others							1							4							1			1		1	8	
total		2	4	3	4	0	0	12	6	9	5	1	1	8	23	5	1	6	2	2	32	2	1	3	11	15	12	170

EMBO young investigators selected in 2002

full name	nationality	topic(s)	institute
Francis Barr	British	Intracellular protein transport	MPI of Biochemistry, Martinsried, Germany
Yves Barral	French	Septin dynamics and function	ETH Hönggerberg, Zürich, Switzerland
Edouard Bertrand	French	RNA trafficking	CNRS, Montpellier, France
Miguel Blázquez	Spanish	Hormone signaling in plant development	CSIC-UPV, University of Valencia, Spain
Janusz Bujnicki *	Polish	Bioinformatics and protein engineering	IIMCB, Warsaw, Poland
Daniel Davis	British	Immunological synapses	Imperial College, London, UK
Massimo Delledonne	Italian	Plant disease resistance	University of Verona, Italy
Karl-Peter Hopfner	German	Structural biology of DNA damage sensors	University of Munich, Germany
Edmund Kunji	Dutch	Structure of mitochondrial carriers	MRC Dunn Human Nutrition Unit, Cambridge, UK
Maria Dolores Martín-Bermudo	Spanish	Cell migration in development	CSIC, Granada, Spain
Livio Pellizzoni	Italian	Biology of spinal muscular atrophy	ICB-CNR, Monterotondo, Italy
Philippe Pierre	French	Immunology of dendritic cells	CNRS, Marseille, France
Ivan Rodriguez	Swiss	Pheromone receptors in the mouse	University of Geneva, Switzerland
Frédéric Saudou	French	Mechanisms in Huntington's disease	Institut Curie, Orsay, France
Anne Spang	German	Intracellular transport in yeast and worms	Friedrich Miescher Laboratory, Tübingen, Germany
Anu Suomalainen-Wartiovaara	Finnish	Mitochondrial disorders and nuclear genes	University of Helsinki, Finland
Ildikò Szabò	Hungarian/ Italian	Ion channels in photosynthesis	University of Padova, Italy
Nektarios Tavernarakis	Greek	Mechanotransduction in <i>C. elegans</i>	IMBB-FORTH, Heraklion, Greece
Didier Trouche	French	Histone modifying enzymes	LBME CNRS, Toulouse, France
Andreas Trumpp	German	Stem cell renewal and differentiation	ISREC, Lausanne, Switzerland
Frank Uhlmann	German	Chromosome cohesion and segregation	Cancer Research UK, London, UK
Christian Ungermann	German	Vacuole fusion	BZH, Heidelberg, Germany
Daan van Aalten	Dutch	Structure-based drug design	Wellcome Trust Biocentre, Dundee, UK

* EMBO/HHMI young investigator

EMBO/HHMI scientists selected in 2002

László Homolya	Hungarian	ABC transporters	Hungarian Academy of Sciences, Budapest, Hungary
Miklós Nyitrai	Hungarian	Regulation of the actin cytoskeleton	University of Pécs, Hungary

EMBO young investigators selected in 2000 & 2001

Adams, Ralf	Dominguez, Maria	Löwe, Jan	Santos, Manuel
Alon, Uri	Donaldson, Anne	Lygerou, Zoi	Schärer, Orlando D.
Antonny, Bruno	Fankhauser, Christian	Mansuy, Isabelle	Schedl, Andreas
Arber, Silvia	Fernandez-Chacon, Rafael	Mattevi, Andrea	Schleper, Christa
Arkowitz, Robert	Glotzer, Michael	Mehlen, Patrick	Schlötterer, Christian
Arribas, Joaquin	Gönczy, Pierre	Mosialos, George	Schneitz, Kay
Ashe, Hilary	Gonzalez-Reyes, Acaimo	Musacchio, Andrea	Stock, Daniela
Averof, Michalis	Hajnal, Alex	Nagy, Laszlo	Tamagnone, Luca
Barkai, Naama	Helariutta, Ykä	Nehrbass, Ulf	Tanaka, Tomoyuki
Berger, Frederic	Helms, Volkhard	Neuhauss, Stephan	Telford, Maximilian
Briscoe, James	Hidalgo, Alicia	Nissen, Poul	Therond, Pascal
Casares, Fernando	Hirst, Judy	Noselli, Stephane	Tuschl, Thomas
Christoforidis, Savvas	Holstege, Frank	Owen-Hughes, Tom	Van den Ackerveken, Guido
Collinson, Ian	Jansen, Ralf	Palková, Zdena*	van der Goot, Gisou
Conradt, Barbara	Khakh, Baljit	Peracchi, Alessio	van Steensel, Bas
Cramer, Patrick	Knoblich, Jürgen	Perrakis, Anastassis	Vinkemeier, Uwe
Currie, Peter	Konieczny, Igor*	Peters, Jan-Michael	Wimmer, Ernst A.
de Gier, Jan-Willem	Lappalainen, Pekka	Posas, Francesc	Zernicka-Goetz, Magdalena
Dessen, Andrea	Lemaitre, Bruno	Radtke, Freddy	
Dickson, Barry	Logan, Malcolm	Reich, Ziv	* EMBO/HHMI young investigator

EMBO young investigators application & selection statistics

Country	No of App 2000	Selected 2000	No of App 2001	Selected 2001	No of App 2002	Selected 2002
Austria	9	5	3	0	1	0
Belgium	8	0	2	0	3	0
Croatia	2	0	1	0	0	0
Czech Republic	2	0	0	1	6	0
Denmark	5	1	0	0	0	0
Finland	9	2	1	0	4	1
France	72	5	17	4	26	4
Germany	52	7	22	4	17	4
Greece	8	2	1	2	4	1
Hungary	2	1	1	0	6	2*
Iceland	0	0	0	0	0	0
Ireland	6	0	3	0	0	0
Israel	13	2	7	1	4	0
Italy	22	1	6	3	14	3
Netherlands	10	2	6	2	3	0
Norway	2	0	1	0	1	0
Poland	13	1	2	0	8	1
Portugal	9	1	6	1	2	0
Slovenia	3	0	0	0	0	0
Spain	40	4	26	1	18	2
Sweden	23	1	3	0	15	0
Switzerland	21	6	11	3	12	3
Turkey	8	0	1	0	2	0
United Kingdom	75	14	30	1	23	4
Cyprus	1	0	0	0	0	0
female	94	13	44	4	45	4
male	321	42	106	19	124	19
total	415	55	150	23	169	23

* EMBO/HMMI scientist

EMBO young investigators 2000 – 2002 general statistics

	average
age	34.6
postdoctoral years	5
total number of publications	20.2
last author	3
first author	9

pre- and/or postdoctorate was spent in/at

	no.	percentage
USA	71	68.9
EMBL	17	28.3
MRC LMB	10	9.9
MRC (all institutes)	12	11.9
MPI (all institutes)	11	10.5

postdoctoral fellowships were received from the following international agencies

	no.	percentage
EMBO	31	30.7
HFSP	21	20.7
EU TMR	10	9.9

participation of women in EMBO activities

EMBO membership

total number of members	% women	year
1071	13.4	2002

Of the 31 new members chosen in 2002, 19.3 % were women.

EMBO courses & workshops in 2002

	% female participants	% female speakers
practical courses	51	23
workshops	39	25
lecture courses	58	19

EMBO long-term fellowships

(statistics for 1996 – 2002)

	applications	awarded	success rate
female applicants	2261 (41.3%)	415 (35.8%)	18.4%
male applicants	3225 (58.7%)	744 (64.2%)	23.1%

(statistics for 2002)

female applicants	347 (43.4%)	68 (40.5%)	19.5%
male applicants	453 (56.6%)	100 (59.5%)	22.1%

EMBO short-term fellowships**(statistics for 2002)**

	applications	awarded	success rate
female applicants	148 (53.42%)	81 (53.28%)	54.7%
male applicants	129 (46.57%)	71 (46.71%)	55.0%

EMBO young investigator programme (statistics for 2000 – 2002)

	applications	awarded	success rate
female applicants	183 (25.0%)	21 (20.8%)	11.5%
male applicants	550 (75.0%)	80 (79.2%)	14.4%
total	733 (100 %)	101 (13,8%)	13.8 %

(statistics for 2002)

female applicants	45 (26.8%)	4 (17.4%)	8.9%
male applicants	123 (73.2%)	19 (73.8%)	15.4%
total	168 (100%)	23 (13.7%)	13.7%

practical courses 2002

Electrical coupling in the retina	R. Weiler <i>et al.</i>	D – Oldenburg	March 10 – 16
Plant development: molecular and cellular basis	J. Feijó, M. Oliveira	P – Oeiras	April 3 – 19
Crystallization of macromolecular complexes	C. W. Müller <i>et al.</i>	F – Grenoble (EMBL)	April 8 – 13
Gene vectors	M. Mezzina <i>et al.</i>	F – Evry	April 14 – 27
Live specimen light microscopy	E. Stelzer <i>et al.</i>	D – Heidelberg (EMBL)	May 5 – 18
Automated macromolecular structure solution	A. Perrakis <i>et al.</i>	D – Heidelberg (EMBL)	May 9 – 16
Electron microscopy, immunocytochemistry and stereology for cell biology	G. Griffiths <i>et al.</i>	D – Heidelberg (EMBL)	May 22 – June 2
Advanced techniques in molecular medicine	A.-C. Syvänen <i>et al.</i>	S – Uppsala	May 27 – June 4
Microarray technologies: from genome to proteome	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	June 1 – 8
Digital image microscopy	A.M. Vossepoel, I.T. Young <i>et al.</i>	NL – Delft	June 3 – 7
Molecular genetics with the fission yeast <i>Schizosaccharomyces pombe</i>	R. Egel <i>et al.</i>	DK – Copenhagen	June 9 – 21
Functional genomics using high-density oligonucleotide arrays	M. Kruhøffer <i>et al.</i>	DK – Aarhus	June 15 – 21
Plant cell biology	A. Emons <i>et al.</i>	NL – Wageningen	June 16 – 26
Transient kinetics applied to biological macromolecules	M. Geeves <i>et al.</i>	UK – Canterbury	June 23 – 29
Molecular and genetic tools for the analysis of medaka and zebrafish development	J. Wittbrodt, M. Schartl <i>et al.</i>	D – Heidelberg (EMBL)	July 21 – 31
Multi-dimensional NMR in structural biology	R. Kaptein <i>et al.</i>	I – Il Ciocco, Lucca	August 11 – 16
Cryo-electron microscopy and 3D image reconstruction	A. Hoenger <i>et al.</i>	D – Heidelberg (EMBL)	August 11 – 21

Fluorescence correlation spectroscopy and single molecule detection in biology	R. Rigler, J. Widengren <i>et al.</i>	S – Stockholm	August 12 – 16
Anatomy and embryology of the mouse	A. Marusic <i>et al.</i>	CR – Zagreb	September 15 – 22
From mice to cells	L. Minichiello <i>et al.</i>	I – Monterotondo (EMBL)	October 27 – Nov. 3
Protein expression, purification and crystallization	P. Tucker <i>et al.</i>	D – Hamburg (EMBL)	December 4 – 11
lecture courses 2002			
Molecular basis of bacterial virulence and survival within infected hosts and in the environment	P. Cossart <i>et al.</i>	GR – Spetses	September 3 – 13
The biology of heat shock proteins and molecular chaperones	M. Zylicz <i>et al.</i>	P – Warsaw	September 25 – 29

workshops 2002

Organizing the brain: genes, neurons and circuits (Joint FMI/EMBO workshop)	D. Monard <i>et al.</i>	CH – Ascona	February 2 – 9
The invasive growth program: signals and effectors	P. Comoglio <i>et al.</i>	I – Candiolo, Turin	February 21 – 24
Limb development (Joint Juan March Foundation/EMBO workshop)	D. Duboule, M. Ros	E – Madrid	April 8 – 10
Functional organization of the cell nucleus	I. Raska <i>et al.</i>	CZ – Prague	April 18 – 21
Green and Heliobacteria	A.R. Holzwarth <i>et al.</i>	D – Passau	April 19 – 24
Signalling and cancer (Joint EMBL/EMBO conference)	A. Nebreda <i>et al.</i>	D – Heidelberg (EMBL)	April 20 – 23
Exocytosis	G. Warren, B. Dobberstein	P – Tomar	April 20 – 25
Conference on procaryotes in the third millennium: actions and effects of molecular machines	A. Toussaint, D. Holden	D – Heidelberg (EMBL)	April 26 – 30
Lymphocyte antigen receptor and coreceptor signalling (Joint Serono Foundation/EMBO workshop)	C. T. Baldari <i>et al.</i>	I – Siena	May 4 – 8
Cell death across kingdoms (Joint CNRS Jacques Monod/EMBO workshop)	P. Golstein <i>et al.</i>	F – Roscoff	May 11 – 15
Translational control in development and neurobiology (Joint Serono Foundation/EMBO workshop)	A. Ephrussi <i>et al.</i>	E – Cala Blava, Mallorca	May 23 – 26
Genetic recombination and the maintenance of genome stability	S. West, A. Nicolas	F – Seillac	May 27 – 31
Molecular and developmental biology of <i>Drosophila</i>	T. Kaufman <i>et al.</i>	GR – Crete	June 23 – 29
Gut development and cancer (Joint ISREC/EMBO workshop)	J.-P. Kraehenbuhl <i>et al.</i>	CH – Arolla	August 18 – 22
Ribozymes and RNA catalysis	D. Lilley, F. Eckstein	UK – Dundee	August 23 – 27
Molecular genetics of myogenesis and muscular diseases	P. Rigby <i>et al.</i>	UK – Cambridge	September 29 – Oct. 3

Frontiers of cellular microbiology:
trafficking and signal transduction
(Joint ESF/EMBO workshop)

J. Gruenberg, C. Montecucco

E – San Feliu de Guixols October 12 – 17

special workshops 2002

Genetics after the genome

K. Nasmyth, D. Schweizer

CZ – Brno May 16 – 19

Centrosomes and spindle pole bodies
(Joint EMBL/EMBO conference)

T. Gonzalez *et al.*

D – Heidelberg (EMBL) September 14 – 17

Frontiers of molecular biology
EMBO Members Workshop

E. Boye, E. Seeberg

N – Oslo October 11 – 15

Functional genomics: the future of biology
(Joint EMBL/EMBO conference)

I. Mattaj *et al.*

D – Heidelberg (EMBL) October 13 – 16

world programme fellows 2002

name	home country	guest laboratory	home laboratory
Bari Miah	Bangladesh	University of Freiburg, Germany	University of Rajshahi, Rajshahi, Bangladesh
Yamila Carpio González	Cuba	University of Tübingen, Germany	Center for Genetic Engineering and Biotechnology, Havana, Cuba
Cinthyá Guimarães	Brazil	Hebrew University, Jerusalem, Israel	Instituto de Biofísica Carlos Chagas Filho, Rio de Janeiro, Brazil
Prakash Vincent	India	University of Oldenburg, Germany	Manonmaniam Sundaranar University, Tamil Nadu, India

world programme fellowships selection panel 2002

name	country	field of expertise
Jesús Avila	Spain	Neurobiology/Cell Biology
Francisco Baralle	Italy	Gene Expression
Ernesto Carafoli	Italy/Switzerland	Cell Biology
Jean-Pierre Kraehenbuhl	Switzerland	Immunology
Montserrat Pages	Spain	Plant Biology
Claudio Scazzocchio	France	Microbiology
Günther Schütz	Germany	Gene Expression
David Sherratt	UK	Microbiology
Irma Thesleff	Finland	Developmental Biology
Daniela Toniolo	Italy	Human Disease

world programme practical courses 2002

Mass spectrometry of proteomics¹

G.P. Palomares

Havana, Cuba

15 – 26 April

Cell motility molecular motors
and the cytoskeleton¹

L.C. Cameron

Rio de Janeiro, Brazil

27 May – 7 June

Methods in medical genetics

W. Hennig

Chengdu, China

16 – 30 June

Supramolecular complex formation
in cellular signalling¹

A. Quest

Santiago de Chile, Chile

22 September – 4 October

Cell signalling¹

Qi-shui Lin

Shanghai, China

14 – 26 October

Fluorescence microscopy of living cells

(Joint A-IMBN/EMBO course)

P. Bastiaens, Y. Hiraoka, K. Koike, R. Pepperkok

Kobe, Japan

17 – 23 November

world programme plenary lectures 2002

Thomas Jovin

XIV International Biophysics Congress

Buenos Aires, Argentina

27 April – 1 May

Bernard Dujon

9th International Symposium of the Genetics
of Industrial Microorganisms (GUM 2002)

Gyeongju, Korea

1 – 5 July

Roberto Tuberosa

24th International Rice Research Conference
and 1st International Symposium on Genomics
and Crop Genetic Improvement

Beijing and Wuhan, China

16 – 19 and 22 – 25 September

Francisco Baralle

Pan American Symposium on Molecular
Approaches to Human Disease

Rio de Janeiro, Brazil

22 – 25 October

Axel Ullrich

5th Conference of the A-IMBN

Shanghai, China

2 – 5 November

¹ (Joint ICRO/UNESCO/EMBO course)

EMBO activities and initiatives

EMBO starts new programme for women in science:

Go ahead with an EMBO restart fellowship

Heidelberg, February 20, 2002

Grünes Licht für Frauen in den Lebenswissenschaften

Heidelberg, February 20, 2002

The European Molecular Biology Organization gets US \$ 2 million from the Howard Hughes Medical Institute to support young scientists

Grant supports young researchers in Czech Republic, Hungary, Poland
Heidelberg, March 20, 2002

EMBO award for communication in the life sciences

Heidelberg, May 2, 2002

Gen-Welten Ernährung Ausstellung zu Gast in Heidelberg

Heidelberg, May 4, 2002
(German text only)

Gen-Welten Ausstellung Ernährung eröffnet heute in Heidelberg ihre Pforten

Heidelberg, May 7, 2002
(German text only)

GENAU! Gene auf der Speisekarte

Heidelberg, May 10, 2002
(German text only)

Teachers in the lab

EMBO announces first international practical workshop for biology teachers
Heidelberg, June 25, 2002

Extension of EMBC/EMBO agreement

Heidelberg, August 10, 2002

Amanda Fisher receives the EMBO Gold Medal 2002

Oslo, October 8, 2002

1st EMBO Award for Communication in the Life Sciences goes to Dutch worm scientist

Heidelberg, November 4, 2002

"Wissenschaft im Bus" wird europäisch
Gemeinsame Aktion der Graphic Science
Unit Bristol und der EMBO fordert
zum aktiven Dialog auf
Berlin, November 6 2002

**EMBO supports researchers from
emerging economies**
Heidelberg, November 8, 2002

**EMBO supports restart of six female
scientists at the bench**
Heidelberg, December 4, 2002

The EMBO Journal and EMBO reports
Cutting edge
May 15, 2002 ('EMBO reports')

**Mimicking a human disease in mice:
A model for the Parkinson related
illness multiple system atrophy**
June 6, 2002 ('EMBO reports')

Genomics and world peace
August 29, 2002 ('EMBO reports')

**Light shed on vision and hearing
disorders**
December 16, 2002 ('The EMBO Journal')

scale of contributions

**Scale of contributions from
EMBC member states based
on net national income
at factor cost**

	Scale of contribution for 2001–2003 [%]	for comparison for 1998–2000 [%]
Austria	2.2871	2.40
Belgium	2.8229	3.03
Croatia	0.2439	0.11
Czech Republic	0.6702	0.51
Denmark	1.6849	1.63
Finland	1.1880	1.10
France	15.7262	16.11
Germany	23.2163	25.00
Greece	1.3991	1.32
Hungary	0.4749	0.40
Iceland	0.0818	0.07
Ireland	0.7906	0.60
Israel	0.9649	0.87
Italy	12.3794	12.44
Netherlands	4.1564	4.32
Norway	1.4867	1.45
Portugal	1.2852	1.17
Slovenia	0.1765	0.16
Spain	6.4705	6.43
Sweden	2.4980	2.38
Switzerland	3.2272	3.74
Turkey	2.4351	2.16
United Kingdom	14.3340	12.36
special balancing contribution	0.0000	0.51
total	100.0000	100.27
Poland *	1.1588	0.96

* new membership



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Administrator
and Eilish Craddock (right),
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to Professor Frank Gannon

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Seán Bourke welcomes visitors to EMBO at the reception.



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A magnifying glass with a silver handle and a black frame is positioned over a document. The lens is centered on the URL 'http://www.embo.org/'. The background of the document is a collage of green and blue geometric shapes. Other text is visible but out of focus.

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upcoming events 2003

practical courses

lecture courses

workshops

conferences

world programme activities

practical courses 2003

Serial analysis of gene expression	F. Baas <i>et al.</i>	NL – Amsterdam	January 19 – 26
Functional genomics: transcription analysis, data mining and bioinformatics to investigate biological complexity	P. Ricciardi-Castagnoli, C. Vizzardelli	I – Milan	February 10 – 15
Analysis and informatics of microarray data	A. Brazma <i>et al.</i>	UK – Hinxton, Cambridge	March 16 – 22
Plant development: molecular and cellular basis	J. A. Feijó, M. Oliveira	P – Oeiras	March 31 – April 16
Bioinformatics	J. McInerney <i>et al.</i>	IRL – Maynooth	April 28 – May 3
Microinjection and detection of probes in cells	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	May 25 – 30
Microarray technology: from genome to proteome	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	May 31 – June 7
BioXAS on metalloproteins and organism tissue	W. Meyer-Klaucke, S. Mangani	D – Hamburg (EMBL)	June 17 – 22
Strategies in macromolecular structure determination at 3 rd generation synchrotron sources	R. Ravelli, W. Shepard <i>et al.</i>	F – Grenoble (EMBL)	June 17 – 25
Electron microscopy and stereology in molecular biology of cells and tissues (Joint EU/EMBO course)	J. Nebesarova <i>et al.</i>	CZ – Ceske Budejovice	July 3 – 12
Cytometry and cell sorting for functional genomics and proteomics	A. Radbruch <i>et al.</i>	D – Berlin	July 7 – 11
Mouse transgenics and behaviour	D. P. Wolfer <i>et al.</i>	CH – Zürich	July 7 – 19
Prion biology and biochemistry <i>in vivo</i> and <i>in vitro</i>	A. Aguzzi <i>et al.</i>	CH – Zürich	August 2 – 7
Developmental genetics: Arabidopsis, <i>C. elegans</i> , Drosophila, zebrafish	C. Nüsslein-Volhard <i>et al.</i>	D – Tübingen	August 25 – September 6

Mouse genome engineering by site-specific recombinases	W. Müller, F. Stewart <i>et al.</i>	D – Braunschweig	September 1 – 10
Structure determination of biological macromolecules by solution NMR	M. Sattler <i>et al.</i>	D – Heidelberg (EMBL)	September 10 – 17
Image processing for cryo-electron microscopy	H. Saibil <i>et al.</i>	UK – London	September 10 – 17
Deciphering chromosomes by chromatin immunoprecipitation	V. Orlando, T. Grange	I – Naples	September 18 – 28
Modern methods in cell biology	M. Knop, G. Griffiths	D – Heidelberg (EMBL)	September 24 – October 4
Advanced molecular and immuno cytogenetics on chromosomes and nuclei in plants	P. F. Fransz, J.H. de Jong	NL – Wageningen	October 13 – 20

lecture courses 2003

Protein folding and misfolding	M. Brunori <i>et al.</i>	I – Rome	April 3 – 5
New developments in genomics for biomedicine	F. Gubensek <i>et al.</i>	SL – Kranj	April 9 – 13
Cellular and molecular biology of membranes	J.A.F Op den Kamp <i>et al.</i>	F – Cargèse, Corsica	June 9 – 21
Molecular mechanisms in signal transduction	J. L. Bos <i>et al.</i>	GR – Spetses	August 19 – 29
Mechanisms in homeostasis and disease	P. Herrlich <i>et al.</i>	GR – Spetses	August 29 – September 8

workshops 2003

Non coding RNAs: their role in translation and gene regulation (Joint CNRS Jacques Monod/EMBO workshop)	T. Hohn, P. Romby	F – Aussois	January 14 – 19
Chromosome replication to cell division: 40 years anniversary of replicon theory	S. D. Ehrlich <i>et al.</i>	F – Villefranche-sur-Mer	January 18 – 22
Molecular genetics and biophysical aspects of photosynthesis	J.-D. Rochaix <i>et al.</i>	CH – Les Diablerets	January 26 – 29
Deuterium labelling techniques for bio-molecular NMR and neutron scattering	D. Myles <i>et al.</i>	F – Grenoble	January 29 – 31
Extracellular proteases and their inhibitors in development, plasticity, and pathology of the nervous system	D. Monard <i>et al.</i>	CH – Ascona	March 23 – 28
Molecular and genetic basis of autoimmune diseases: SLE and RA (Joint Juan March/Gulbenkian/EMBO workshop)	A. Coutinho <i>et al.</i>	P – Lisbon	April 7 – 9
Mechanisms of cell migration	P. Rørth <i>et al.</i>	D – Heidelberg (EMBL)	May 2 – 5
Pattern recognition proteins and receptors (Joint Serono Foundation/EMBO workshop)	K. Söderhäll <i>et al.</i>	CZ – Trest	May 14 – 18
Microdomains, lipid rafts and caveolae (Joint EURESCO/EMBO workshop)	G. van Meer <i>et al.</i>	P – Tomar	May 17 – 22
Pathogenesis of amoebiasis: from genomics to disease	N. Guillén <i>et al.</i>	F – Paris	May 19 – 21
Genomic approaches in plant virology	E. Balázs <i>et al.</i>	H – Keszthely	May 28 – 31
Semaphorin function and mechanisms of action: a decade of semaphorin research	A. Chédotal <i>et al.</i>	F – Cargèse, Corsica	June 3 – 7
Advanced light microscopy: 3 rd meeting of the European light microscopy initiative (ELMI)	S. Castel <i>et al.</i>	E – Barcelona	June 11 – 13

Boundaries in development: 30 years of progress (Joint Serono Foundation/EMBO workshop)	S. Cohen, J. Modolell, D. Wilkinson	D – Heidelberg (EMBL)	June 14 – 17
Liver development, gene regulation and disease	I. Talianidis <i>et al.</i>	GR – Heraklion, Crete	June 14 – 19
Biological implications of macromolecular crowding	G. Rivas <i>et al.</i>	E – Avila	June 14 – 18
Chromatin and epigenetics (In memory of Alan Wolffe)	G. Almouzni <i>et al.</i>	D – Heidelberg (EMBL)	June 19 – 22
Molecular and population biology of mosquitoes	K. Louis, F. Kafatos	GR – Kolymbari, Crete	August 13 – 19
Membrane dynamics in endocytosis: EuroConference on mechanisms of transport and cell signalling (Joint EURESCO/EMBO workshop)	M. Zerial, M. S. Robinson	I – Acquafredda di Maratea (Naples)	September 13 – 18
Meiosis	F. Klein <i>et al.</i>	A – Obertraun	September 13 – 18
Frontiers in cytoskeleton research	M. Gimona, J. V. Small	A – Gosau	September 13 – 18
The assembly of neural circuits	B. Dickson <i>et al.</i>	I – Varenna	September 25 – 28
Mechanisms of nuclear transport	E. Hurt, V. Doye	I – Taormina, Sicily	November 1 – 5
conferences 2003			
Biology of nuclear receptors	A. Maggi <i>et al.</i>	F-Villefranche-sur-Mer	June 4 – 7
Protein phosphatases	J. Ariño, D. Alexander	E-Barcelona	June 29 – 3 July

world programme practical courses 2003

Fluorescent tags, single molecule detection, and advanced microscopy in cell biology	R. Rivera Pomar <i>et al.</i>	Santiago de Chile, Chile	January 19 – 28
Investigation of live specimens by modern optical methods (Joint IBE/EMBO course)	E. Stelzer <i>et al.</i>	Singapore	March 31 – April 11
Imaging biological function in cells and organisms	P. Bastiaens <i>et al.</i>	Ribeirao Preto, Brazil	May 4 – 12
Modern approaches on the principles and applications of cell sorting and flow cytometry (Joint ICRO/UNESCO/EMBO course)	M. Drets <i>et al.</i>	Montevideo, Uruguay	May 14 – 24
Cellular microbiology	W. Hennig, Y. Wen	Shanghai, China	August 12 – 22
Biotechnological tools in plant improvement (Joint ICRO/UNESCO/EMBO course)	N. M. Ramaswamy	Tiruchengode, India	September 7 – 21
Integrated molecular diagnostics of tick-borne pathogens	F. Jongejan <i>et al.</i>	Pretoria, South Africa	October 27 – November 7
Data mining and analysis of genome sequence data	G. Orjeda <i>et al.</i>	Lima, Peru	November 3 – 16

masthead

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