



EMBO | EMBC  
annual report 2004

**introduction**

preface by Frank Gannon	4
preface by Susan Gasser	6
preface by Marja Makarow	8

**EMBO & EMBC: past & present**

timeline & brief history	12
aims of EMBO   EMBC   EMBL	14
summary of EMBO actions 2004	18
summary of EMBC actions 2004	24

**joint EMBO & EMBC activities**

fellowship programme	30
fellows network	32
courses and workshops programme	34
young investigator programme	36
electronic information programme	38

**EMBO additional activities**

<i>The EMBO Journal</i>	42
<i>EMBO reports</i>	44
science & society programme	46
gold medal	48
award for communication in the life sciences	49
plenary lectures	50
sectoral meetings	51
world activities	52
women in the life sciences	54
communications	56
european life sciences forum	58

**appendix**

delegates and advisors from the EMBC member states	62
council & committee members 2004	66
council & committee members 2005	68
new members elected in 2004	70
advisory editorial board 2004	78
long-term fellowship awards 2004	80
long-term fellowships: statistics	92
long-term fellowships 2004: geographical distribution	94
short-term fellowship awards 2004	96
short-term fellowships: statistics	108
short-term fellowships 2004: geographical distribution	110
young investigators selected in 2004	112
EMBO/HHMI scientists selected in 2004	112
young investigator application and selection statistics	114
young investigator lectures 2004	116
courses 2004	118
workshops 2004	120
conferences 2004	122
plenary lectures 2004	124
world programme fellowships 2004	126
statistics on women	127
scale of contributions from the EMBC member states	128
staff in heidelberg	130

**events in 2005**

practical courses 2005	134
lecture courses and workshops 2005	136
conferences and symposia 2005	138
other EMBO events 2005	139



Frank Gannon  
Executive Director  
European Molecular Biology  
Organization (EMBO)  
and Secretary General  
European Molecular Biology  
Conference (EMBC)

2004 was a time for reflection on the development of EMBO and the EMBC. There were significant anniversaries for both organisations and the joint celebration of EMBO's 40th, EMBC's 35th and EMBL's 30th birthdays was also a symbolically important event. Marking the tremendous impact of the organisations, both independently and collectively, on the transformation of molecular biology in Europe, the event also gave those associated with the organisations the chance to reflect on their development.

In my remarks at the anniversary meeting, I focused more on individuals than organisations. I strongly believe that the motor for organisational growth lies with those who contribute their energy and vision to the entity whose reputation they create. Today we still depend very much on individuals and their efforts in 2004 have resulted in a very successful year for both EMBO and the EMBC.

At the beginning of 2004, the value of this kind of personal input was clearly demonstrated. EMBC discussions on the new financial framework for EMBO activities had stalled and it took the efforts of many from EMBO and EMBC to bring the talks to an acceptable solution. The subsequent agreement was an increase in the EMBC budget

of 5% per annum for the next six years. Although this is less than seemed justified by the needs of EMBO's programmes or, indeed, the willingness of a majority of the member states, on reflection, it is a very satisfactory outcome. This increase in funding will ensure that EMBO actions supported by the EMBC remain on a solid financial basis for many years to come.

At times of budgetary uncertainties, EMBO activities come under very close scrutiny. Analysis this year at both EMBC and EMBO Council level, although challenging and time-consuming, was ultimately a rewarding and reassuring process. The final assessment of our actions brought both positive commentary and constructive suggestions for improvement.

The contribution of the managers and staff at EMBO during this phase and in the development of EMBO programmes has to be highlighted. Today, EMBO has perhaps two distinguishing features – firstly the strength of its networks of members, young investigators and fellows and secondly the professionalism and commitment of the staff at the EMBO headquarters. Through their efforts, EMBO programmes continue to grow in impact and reputation. More recent ventures such as the EMBO Young Invest-

igator Programme have also become recognised and appreciated parts of the organisation's scope. In addition, the engagement of the editorial staff of *The EMBO Journal* and *EMBO reports* should be noted and is well reflected, not only in the quality of these publications, but also in their out-of-hours input to the journals.

The fruit of EMBO's labour may give us good reason to be satisfied, but we remain far from complacent. In 2004, EMBO saw a need to bring more exposure and structure to the emerging field of systems biology. This will result in the 2005 launch, together with Nature Publishing Group (NPG), of the new open-access, electronic journal – *Molecular Systems Biology*.

Further reflection on the needs of European science led to a decision to build upon a fruitful collaboration with the Howard Hughes Medical Institute. Discussions within the EMBC are now well advanced towards starting a programme to support Strategic Development Installation Grants. The aim of these grants will be to encourage scientists to start their laboratories in European countries that are at a relatively early stage of scientific development.

Finally, in order to benefit more from the collective wisdom of our members and the

valuable data accumulated annually through fellowship applications, requests for support of courses and workshops and the themes of journal submissions, EMBO will establish a more structured form of policy input in 2005 to provide strategic advice to governments throughout Europe. This process will complement our ongoing efforts to bring about the establishment of a European Research Council.

The continuing emergence of new activities at EMBO is driven by the needs of European science and motivated by a realisation that EMBO and EMBC have important roles to play in achieving a stronger science base for Europe. This is only possible through the dedicated input of EMBO members (particularly those on EMBO committees), EMBC delegates and EMBO staff. Together with them, I look forward to another significant year for EMBO in 2005 and am grateful to all who have worked with EMBO and EMBC over the last forty years to transform the ambitious aspirations of EMBO into realistic goals and significant achievements.



Susan Gasser  
Chair of the EMBO Council

As I look back over last year's activities and forward to the next, I am struck by EMBO's increasing involvement in the world of electronic publishing, data management and electronic information. This is an evolution that many would claim inevitable, yet each step must be taken with care to ensure quality and avoid unwelcome results. Reversals in evolutions of this kind are often extremely hard to achieve.

The most notable addition to EMBO's current activities is Europe's first electronic journal on systems biology, *Molecular Systems Biology*. The journal will be launched by EMBO and Nature Publishing Group (NPG) in March 2005 appearing in electronic version only. This represents a first step for EMBO and NPG into open-access or author-pays publishing. For EMBO, this is an exciting new expansion into a field that is currently blossoming worldwide and provides an opportunity to represent and structure a research area well suited to the electronic publication mode.

What is the goal of *Molecular Systems Biology*? Over the last few years, EMBO has discussed the possibility of converting *The EMBO Journal* to open access. However, it is still unclear whether this will be the ideal publishing paradigm and it seemed unwise

to test the water with our flagship publication. We had also discussed the option of expanding EMBO's publishing efforts into themes that are less widely represented in *The EMBO Journal*. However, we wanted to avoid the proliferation of specialised EMBO "offspring". It was under this backdrop and in the hope that Europe might take the lead in systems biology, that *Molecular Systems Biology* was conceived.

In some ways, systems biology was an obvious choice for an electronic publishing venture, as it relies heavily on computational and high-throughput technologies. The new journal will publish full-length papers with a focus on systematic or large-scale analyses that aim to integrate and model molecular and cellular phenomena. Guiding the journal are five stellar editors (Ruedi Aebersold, Peer Bork, George Church, Leroy Hood and Edison Liu), supported by an on-site editor at the EMBO office. *Molecular Systems Biology* represents a major effort, but EMBO is confident that the paradigm is appropriate and the moment is ripe.

There are also changes at *The EMBO Journal*. Iain Mattaj will take over as Director General of EMBL and step down as Executive Editor of *The EMBO Journal*. We are greatly indebted to Iain for his commitment

to the journal; he has been instrumental to its success. The EMBO Council and the EMBO Publication Committee agreed unanimously that Pernille Rørth of EMBL should be appointed as the new Executive Editor with the aim of having a leading scientist working closely with the in-house editorial staff. This should ensure strong scientific input into the decision-making process. The participation of the Advisory Editorial Board in the review process is also highly valued.

In addition, a new layer of four external senior editors has been incorporated into the editorial structure of *The EMBO Journal* with the aim of broadening the journal's reach even further. *The EMBO Journal* has always been deeply rooted in the scientific community and it is hoped that the new senior editors will attract further high quality papers and identify novel, ground-breaking ideas in submitted manuscripts. The senior scientists accepting this position are David Baulcombe, Ari Helenius, Tim Hunt and Tony Hunter. The senior editors will meet with the editorial staff at least once per year to help guide *The EMBO Journal* in its decisions.

Another electronic direction that will bear fruit in the coming months is the E-BioSci project, guided by EMBO manager,

Les Grivell, who has also been an important contributor to the start-up of *Molecular Systems Biology*. E-BioSci aims to improve electronic data searches of published literature and other data storage sites. It will be tested in the coming year to determine how it can help molecular biologists deal with an ever-expanding digital database of information.

Besides expansion into electronic areas, continued efforts are being made to expand EMBO's activities in central and eastern European countries. Last but certainly not least, the European Research Council (ERC) moves ever closer on the horizon promising to be a significant new source of funding for research in Europe. These are projects in which EMBO has played a major role, contributing on many levels – above all by providing a standard for efficient, science-based management.

We thank the entire EMBO staff in Heidelberg for their continued dedication to making EMBO the success that it is today. I further thank all the EMBO members who generously contribute their time and judgement to help shape the ever-evolving EMBO programme, as we continue to promote molecular biology throughout Europe and the rest of the world.



Marja Makarow  
President  
European Molecular Biology  
Conference (EMBC)

2004 marked the 35th anniversary of the EMBC. Established in 1969 as an intergovernmental organisation of fourteen member states, EMBC was born of the foresight and vision of a small group of scientists, who had founded EMBO five years earlier. By engaging European member states in securing public funding for EMBO's core activities, this pioneering group laid the groundwork for a successful partnership that has been supporting European science for almost four decades.

Looking back at EMBC's history and founding goals gives rise to some interesting comparisons with today's European Research Area and the discussions surrounding the establishment of a European Research Council (ERC) – the potential new funding instrument of the European Commission to support investigator-driven basic research. The original motivation to create the EMBC came from the realisation that Europe was lagging behind the United States in science and that "brain drain" was flowing increasingly away from Europe towards the US. These same arguments are used today to promote the ERC.

Comparisons can also be drawn between the purpose of the EMBC and the ERC. Like the ERC, EMBC's foremost aim

was, and still is, to promote basic research in Europe – in the case of the EMBC, in the area of molecular biology. The EMBC and EMBO programme initially consisted of training courses and long-term fellowships with a focus on young scientists. These activities and the overall concept of the EMBC/EMBO partnership was very much ahead of its time and a forerunner for the vision scientists hold today of a European Research Council. In this respect, EMBC and EMBO were already delivering on the goals of the European Research Area in the domain of molecular biology decades before Commissioner Philippe Busquin launched the idea of a common market for research.

This long-standing partnership between EMBC and EMBO has had a fundamental impact on the development of molecular biology. Together the organisations have raised a new generation of molecular biologists making first-class training and international mobility an integral element of their research careers. The establishment of the European Molecular Biology Laboratory (EMBL) in 1974, as a special project of the EMBC, was also a significant turning point for molecular biology. EMBL later became an independent intergovernmental organisation in its own right and now represents

a model for molecular biology laboratories worldwide. Viewed together, it is clear that EMBC, EMBO and EMBL have raised the quality of European research to a new level.

Today EMBC has grown to encompass 24 member states and continues to promote a strong transnational approach to the life sciences – on a minimal budget and with the leanest of administrations. Governed by the nominated delegates of national governments, EMBC is conscious of its responsibility to European science. The organisation's political mandate and long-standing experience make it well placed to contribute decisively to science policy and develop programmes that accurately reflect the needs of European science.

EMBO & EMBC

past & present

timeline & brief history

aims EMBO | EMBC | EMBL

EMBO actions in 2004

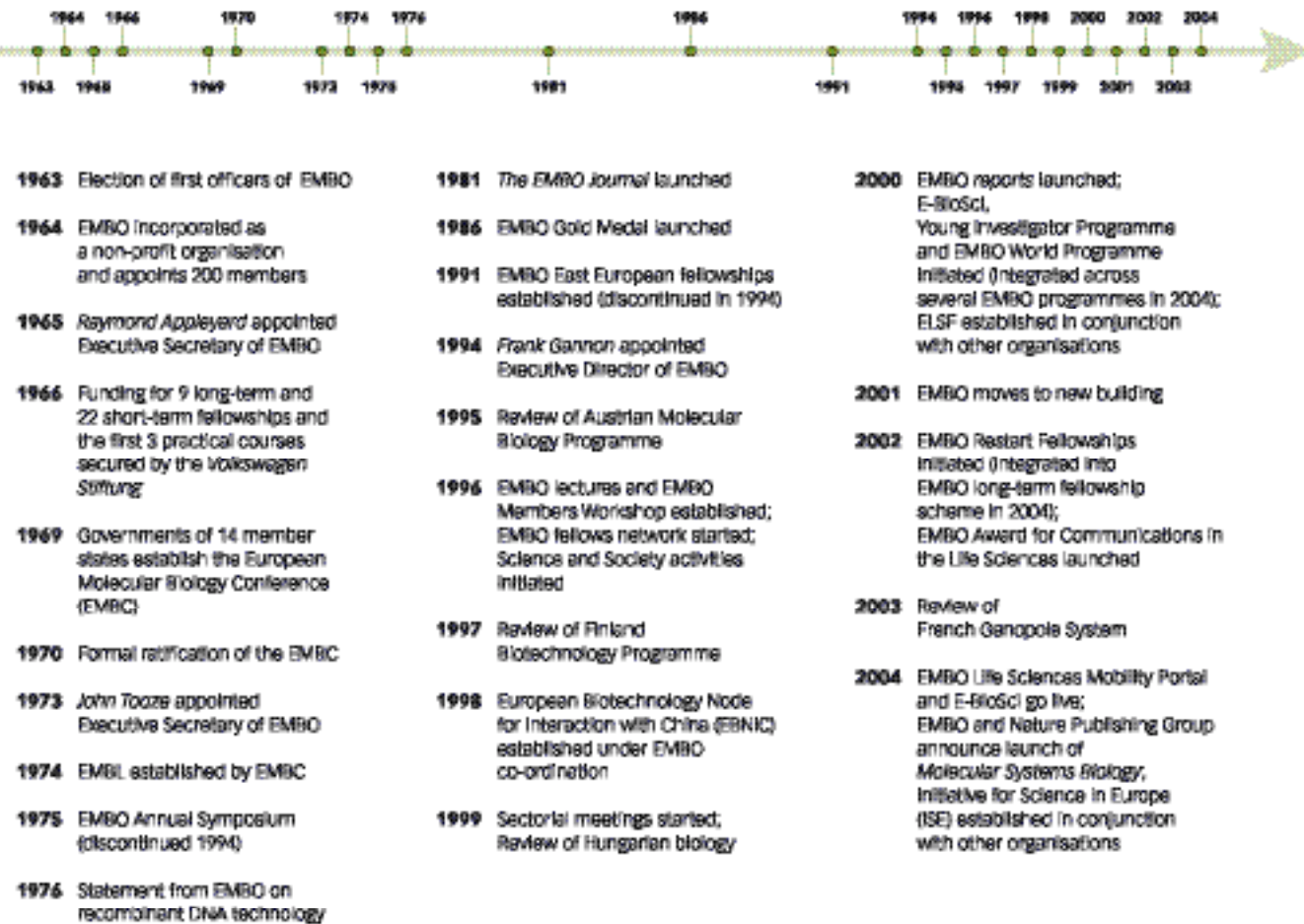
EMBC actions in 2004

1964 → EUROPEAN MOLECULAR BIOLOGY ORGANIZATION – EMBO

1969 → EUROPEAN MOLECULAR BIOLOGY CONFERENCE – EMBC

1974 → EUROPEAN MOLECULAR BIOLOGY LABORATORY – EMBL

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



### 40 years of EMBO

The origins of EMBO date back to 1963, when a group of leading European biologists got together in Ravello, Italy to discuss proposals by John Kendrew and Conrad Waddington to establish an organisation and laboratory for co-operation in molecular biology. Both proposals were endorsed at this meeting and later, in July 1964, the European Molecular Biology Organization (EMBO) was officially born.

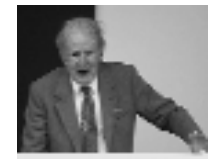
The Ravello meeting laid down two initial goals for EMBO – creation of a central molecular biology laboratory and the establishment of networking activities to enhance interactions between European laboratories. Two committees were set up – the Laboratory Committee and the Federal Organisation Committee. The work of the Laboratory Committee led to the subsequent establishment of the European Molecular Biology Laboratory (EMBL). The concepts drafted by the Federal Organisation Committee became the motor for EMBO’s fellowships, courses and workshops. The Ravello meeting also saw the election of Max Perutz as the first EMBO chairman and John Kendrew as Secretary General.

On July 12, 1964, thanks to the efforts of Eduard Kellenberger, one of EMBO’s founding members, EMBO was officially incorpo-

rated as an association under Swiss law. Start-up funding for the organisation was generously provided by the Volkswagen Foundation and EMBO was able to initiate its networking activities providing the first fellowships and electing 200 biologists as its first members.

The EMBO Council worked hard to secure long-term funding for EMBO activities and in 1969, the governments of 14 member states came together to establish the European Molecular Biology Conference (EMBC). The EMBC adopted the activities initiated with the Volkswagen funding and these became known as the EMBC General Programme. Soon after its foundation, the EMBC also accepted EMBO’s proposal to establish a European laboratory and in 1974, a subset of ten member states formed the EMBL as an independent intergovernmental organisation.

Today the EMBC has grown to 24 member states including most of the European Union (EU) countries and some neighbouring countries. Evidence of how EMBO has thrived since its foundation can be found in the chapters of this annual report and is clearly demonstrated in the esteem in which the organisation is held today by scientists worldwide.



Max Perutz, the first EMBO chairman



John Kendrew, EMBO's first Secretary General



Eduard Kellenberger, one of EMBO's founding members

### EMBO

The European Molecular Biology Organization (EMBO) promotes biosciences in Europe. The organisation supports transnational mobility, training and exchange at all stages of the scientific career through a number of programmes and initiatives.

EMBO's activities fall into two different categories: those that make up the General Programme funded by the European Molecular Biology Conference (EMBC) and those that EMBO has initiated and developed independently. The EMBC General Programme includes well-known activities such as the provision of fellowships for long-term and short-term laboratory visits, the funding of practical courses and workshops and activities highlighting young independent researchers of high quality.

The General Programme supported by EMBC encompasses some newer actions such as science and society activities, which foster an open dialogue between scientists and non-scientists and an electronic information platform providing online searches of scientific literature and general web presentation of life sciences information. EMBO supports the scientific community through the publication of two scientific journals and in March 2005 will launch a new elec-

tronic, open-access publication, *Molecular Systems Biology*.

EMBO elects new members annually on the basis of proven excellence in research. Today, EMBO has more than 1100 members in Europe and over 60 associate members worldwide – providing a dedicated focal point for the vast network of molecular biology. The EMBO membership includes some of the leading researchers in Europe, amongst them 38 Nobel Prize winners. EMBO members provide valuable input to EMBO in all of its activities via various committees.

EMBO activities are delivered by a dedicated team of managers and administrators based at the EMBO headquarters in Heidelberg, Germany. The EMBO Council is also intensely engaged in EMBO actions and contributes decisively to the direction of the organisation by providing input on scientific standards and policy. The Council regularly examines the range of EMBO activities, monitoring their effectiveness and making recommendations for changes.

In recent years, EMBO has also pursued a strategy of analysing European science and developing new activities to meet the needs of the molecular biology community. EMBO identifies and pilots these new

actions to determine the potential benefit of adding them to the overall programme of EMBC/EMBO activities. The funding of EMBO activities outside the EMBC General Programme comes predominantly from EMBO's scientific publications. Support is also procured in the form of grants, particularly from the European Union or occasionally through collaborations with international organisations.

The full range of EMBO programmes and activities is presented throughout the pages of this annual report.

### EMBC

The European Molecular Biology Conference (EMBC) is an intergovernmental organisation made up of 24 member states. The EMBC was founded in 1969 to support and finance the actions of EMBO and to give member states more structured access to the expertise of EMBO members. The organisation was formally ratified in 1970. The EMBC promotes a strong pan-European approach to research. Member states include most European Union (EU) countries as well as some neighbouring countries.

Today, EMBC supports a wide range of EMBO activities as part of its General Programme. Fellowships, practical courses and

workshops constitute the main actions of the EMBC. More recently, the Young Investigator Programme, the Electronic Information Programme and the Science & Society Programme have been added to the EMBC General Programme.

EMBC and EMBO operate very much in harmony and are driven by a common commitment to quality research at the pan-European level. The actions of both organisations are characterised by selection on the grounds of quality and a strong cooperation with the scientific community. EMBC has decision-making power over the funding and development of all EMBO activities associated with the EMBC General Programme, while EMBO has full responsibility for the delivery of these activities. The actions of EMBO are monitored and the overall programme is decided by the EMBC member states when they meet annually in conference.

### EMBL

The creation of a central molecular biology laboratory was one of the founding goals of EMBO. Early efforts by the EMBO Council and an EMBC special project resulted in the establishment of the European Molecular Biology Laboratory (EMBL). In 1974, the



EMBL became an independent entity supported by a subset of EMBC member states. Today 18 EMBC member states are also member states of EMBL.

EMBL has five core missions: to conduct basic research in molecular biology; to provide essential services to scientists in its member states; to provide high-level training to staff, students and visitors; to develop new instrumentation for biological research; and to transfer the benefits of new discoveries and technologies to

society. Today these core functions are combined with significant outreach activities in the areas of science and society and training for science teachers.

The EMBL is independent from the EMBC and EMBO, but all three act in a mutually supportive manner, both at a strategic and practical level. Full details of EMBL activities can be found on the laboratory's website at [www.embl.org](http://www.embl.org) or in the EMBL Annual Report.



Aerial view of EMBO and EMBL-Heidelberg, Germany. The EMBC administration is also located in the EMBO building.

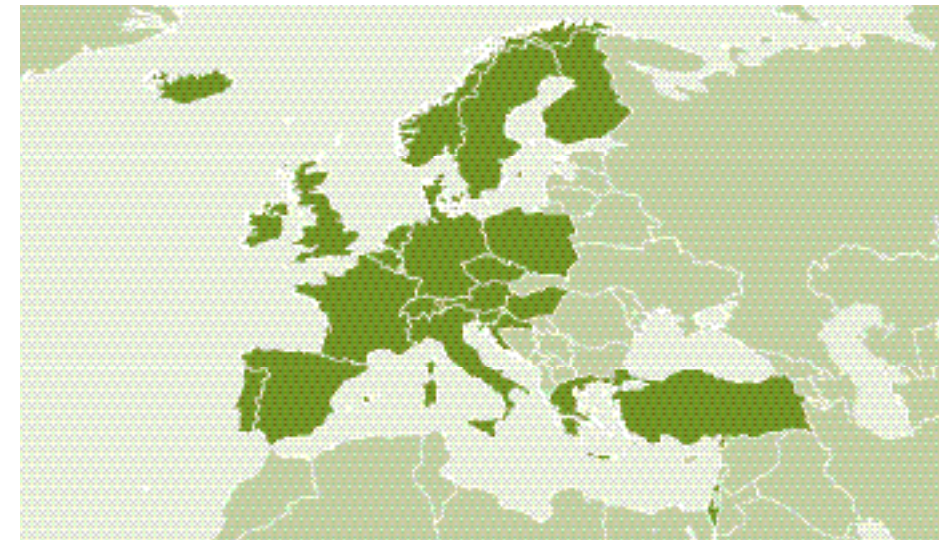
#### EMBC member states

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

1970	Austria	1970	France	1970	Israel	1997	Slovenia
1970	Belgium	1969	Germany	1972	Italy	1970	Spain
1998	Croatia	1972	Greece	1970	The Netherlands	1969	Sweden
1994	Czech Republic	1992	Hungary	1970	Norway	1969	Switzerland
1970	Denmark	1978	Iceland	1999	Poland	1993	Turkey
1977	Finland	1974	Ireland	1994	Portugal	1970	United Kingdom

*(year of ratification)*

Special provision is also made for applications involving Cyprus. Applications from Luxembourg and Estonia have been accepted and are awaiting formal ratification.



**Chairs of EMBO committees in 2004**

**Roberto Sitia**  
Science & Society  
Committee

**Pascale Cossart**  
Course Committee

**Cesare Montecucco**  
Membership & Publication  
Committee

**Daniela Rhodes**  
Fellowship Committee

**Jean-David Rochaix**  
Young Investigator  
Committee

**Glauco Tocchini-Valentini**  
Electronic Information  
Committee

The specific activities of EMBO's programmes in 2004 are presented in the corresponding sections of this report. In addition to those activities, the following events were of particular importance for EMBO in 2004:

❖ Following a series of discussions in 2004, EMBO decided to launch a new journal in partnership with Nature Publishing Group (NPG). The new online publication, *Molecular Systems Biology*, will go live in March 2005 and cover the emerging area of systems biology, which is continually growing in importance. This topic is currently not widely represented in the papers submitted to *The EMBO Journal* and *EMBO reports* and EMBO anticipates no competition between *Molecular Systems Biology* and its current journals.

*Molecular Systems Biology* will be published solely electronically. This is an experiment, which EMBO and NPG feel is timely and allows for some innovative new features such as a discussion forum on published papers, where readers can enhance papers by entering moderated comments. *Molecular Systems Biology* will operate an open-access, author-pays business model, which again is a new

direction for EMBO and NPG. This novel approach is in keeping with current publishing trends and particularly appropriate for a field where dynamic data sharing is so important. The new journal will be supported by a group of international and expert senior editors and advisory editors.

❖ *The EMBO Journal* saw some organisational changes in 2004. Iain Mattaj retired from his position as Executive Editor to concentrate on his new role as EMBL Director-General from May 2005. Iain was replaced by Pernille Rørth, senior EMBL developmental biologist and EMBO member. The editorial process was further consolidated by the appointment of a new group of senior editors: David Baulcombe, Ari Helenius, Tim Hunt and Tony Hunter. In this way, EMBO and the scientific community continue to maintain full editorial control over the content of *The EMBO Journal*, as with its other journals, *EMBO reports* and *Molecular Systems Biology*.

2004 marked the first year that *The EMBO Journal* was published by NPG. The transition was smooth and the quality of both journals is demonstrated in

2004 impact factors of 10.456 for *The EMBO Journal* and 7.390 for *EMBO reports*.

❖ In 2004, discussions within the EMBO Council on the funding of EMBO programmes were held in parallel with talks within the EMBC. After the EMBC reached an agreement (see p. 24), the EMBO Council met in a special session to put in place a three-year programme of funding with the aim of providing long-term stability for EMBO actions. During this process, the EMBO Council also reorganised some of the existing EMBO programmes and activities. Details of these changes are presented below:

i) The EMBO Restart fellowships, which were designed to facilitate the re-entry of parents into the research world, were discontinued. EMBO funding was insufficient to support this activity and EMBC funding was not available. However, the benefit of this kind of targeted support for researchers with childcare commitments was recognised and the eligibility criteria for the Restart fellowships were integrated into the EMBO long-term fellowship scheme (see p. 31 and 54).

ii) With the integration of the Restart fellowships into the EMBO Fellowship Programme, the EMBO Council decided that it was misleading to have a specific EMBO "Women's Programme". Activities related to women in science are already a component of all EMBO programmes. The commitment of EMBO towards promoting women in the life sciences is not diminished by this decision and activities supporting women in research will continue to be highlighted on the EMBO website, at committee meetings (particularly in the Science & Society Committee) and in other external EMBO activities.

iii) In a similar context, the EMBO Council also looked at the EMBO World Programme. The decision was made to integrate the programme's international actions into other mainstream EMBO programmes such that EMBO's commitment to supporting activities outside Europe is reflected across the organisation's existing scope (see p. 31 and 53). International courses and workshops were integrated into the EMBO Courses and Workshops Programme and the eligibility criteria for the former World



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

Programme fellowships became part of the EMBO short-term fellowship scheme. These activities and other interactions with countries outside Europe will now be called EMBO World Activities and continue to be highlighted on the EMBO website.

✦ In 2004, minor changes were made to the voting procedure for the EMBO membership election. The aim was to diminish the perceived tendency of members to vote in a nationally biased manner. Changes included the removal of nominated scientists' countries of residence from ballot papers and the inclusion of a question indicating whether members are voting for a scientist based in their own country. As with the standard voting procedure, the collection of data was fully anonymous and had no influence on the ranking of members' votes.

Subsequent analysis of the data showed that the impact of national voting was minimal and that the election outcome would have remained virtually unchanged if national voting had been excluded. As a result of this election and the co-option proposals of further first-

class scientists by the EMBO Membership & Publication Committee, thirty-seven new members and three new associate members were elected to the EMBO membership.

✦ The annual EMBO Members Workshop took place in October 2004 in Vienna, Austria. This is a unique meeting that brings together leading scientists from all corners of the molecular biology community. Presentations were made by the EMBO members elected in 2003 and covered the broad range of topics they represent. The meeting was very well received by participants and also provided an opportunity for discussion on different aspects of EMBO policy and current science and society issues. The next EMBO Members Workshop will take place in October 2005 in Warsaw, Poland. EMBO Members Workshops are open to all interested scientists and offer an excellent opportunity to learn about progress in the diverse areas of molecular biology.

✦ EMBO members elected 2005 EMBO Council in 2004 (see p. 66 and 68 for details of the EMBO Council members in

2004 and 2005). Susan Gasser was re-elected as Chair and Erik Boye was elected as Vice-Chair. Ingrid Grummt and Carlos-Martinez-A. were re-elected to the EMBO Council and Daniel Louvard was elected as a new member. Roberto Di Lauro and Anton Berns were co-opted to the EMBO Council for the period of 2005–2007. A number of changes to EMBO committees were also agreed upon during 2005 and are listed on p. 67 and 69.

✦ In 2004, the EMBO Council reflected on changes to the scope of EMBO's activities. The decision was made to reorganise the EMBO Membership & Publication Committee. From 2005, there will be a separate Membership Committee and the Publication Committee's responsibilities will be fused with the Electronic Information Committee. Membership of the 2005 committees is outlined on p. 69.

✦ The EMBO statutes, rules and procedures were analysed during 2004 and endorsed by the EMBO Council, subject to an input of legal advice on their accuracy.

These revised statutes will be submitted for vote to the EMBO members in 2005.

✦ EMBO was very active during 2004 on the topic of the European Research Council (ERC). The organisation's involvement in the establishment of the European Life Sciences Forum (ELSF) has proven to be very timely with ELSF taking the lead in many important actions on the ERC in 2004. One specific activity was the broadening of the ELSF concept to establish a new platform comprising representatives from all scientific areas. The new multi-disciplinary platform is called the Initiative for Science in Europe (ISE). Through ELSF, the ISE group organised two meetings in 2004 and acted as a useful sounding board for discussion on the ERC. ISE also prepared a well-publicised letter, which was signed by 52 different European organisations thereby confirming the commitment of the scientific community towards the general concepts that have been agreed upon for the ERC. The letter was published in *Science* in August 2004 ("Creating a European Research Council" – Vol. 305, Issue 5685, 776–777, 6 August 2004).



Claudia Hagedorn is the administrator for the EMBO Membership and EMBO Council.

◆ EMBO organises annual sectoral meetings focusing on topics that EMBO feels require special attention. In 2004, the sectoral meeting was held in Rome, Italy and looked at the topic of bioinformatics and computational biology. In addition to presenting up-to-date perspectives on research, the meeting gave participants the opportunity to provide input to EMBO on how the organisation could further impact and support the bioinformatics community. 2004 also saw the first follow-up sectoral meeting on molecular medicine. The theme was molecular biology and leukaemia with a particular focus on Ras-, Raf- and Myc-signalling.

◆ EMBO continued its discussions at the EMBO Council and Committee level on its potential role as an advisory body to external parties, in particular to the EMBC. The commitment of EMBO to this goal was strengthened during 2004 and some specific actions are under discussion for a more structured launch of this project in 2005.

◆ 2004 was the 40th anniversary of the formal founding of EMBO. This was cele-

brated on two occasions – jointly with EMBC (founded 35 years ago) and EMBL (established 30 years ago) at a special event in November and by EMBO itself at a historical 40th anniversary meeting in Heidelberg in June. A booklet to highlight the 40 years of EMBO's existence was published in conjunction with this meeting and contains many interesting recollections from members throughout the years.

◆ The 2004 winner of the annual EMBO Gold Medal was María Blasco, Director of the Molecular Oncology Programme at the Spanish National Cancer Centre (CNIO) in Madrid, Spain. Maria received the award in recognition of her landmark work in the area of telomeres (see p. 48).

◆ In 2004, the EMBO members were polled for their opinions on a variety of EMBO actions. 15% of the EMBO membership participated in the survey and the results demonstrated a high degree of satisfaction with the majority of EMBO's activities. The outcome also revealed a need for greater publicity of some of EMBO's newer actions.



EMBO's first Executive Director, Raymond Appleyard (left) and Eduard Kellenberger, one of EMBO's founding members. This photo was taken during the 40th anniversary meeting in Heidelberg in June 2004. Eduard Kellenberger sadly passed away in December 2004.



"40 years of success"  
This booklet was published in 2004 to accompany EMBO's 40th anniversary. It highlights important milestones in the history of EMBO and EMBC, and features many interesting recollections from EMBO members throughout the years. To obtain a copy, e-mail [communications@embo.org](mailto:communications@embo.org) or download the PDF version at [www.embo.org/publications/archive.html](http://www.embo.org/publications/archive.html).

Three sessions of the EMBC were convened during 2004. The first of these was an extraordinary meeting to finalise an agreement on the EMBC's financial support of EMBO activities. Two formal sessions of the EMBC were held in June and November 2004. The EMBC Strategic Working Party also met on two occasions in 2004 and there was one meeting of the Financial Advisory Group. In addition, a special meeting was organised to discuss actions that could be taken to support EMBC member states, which are currently developing their science bases. The results of these meetings (unless covered elsewhere in this report) are summarised below.

- ◆ The EMBC officers for 2004 were:
  - Secretary General**  
Frank Gannon
  - President**  
Marja Makarow (Finland)
  - Vice Presidents**  
Reinhard Lührmann (Germany)  
Peter Weisbeek (Netherlands)
  - Chair of Financial Advisory Group**  
David Smith (United Kingdom)
  - Vice-Chair of Financial Advisory Group**  
Brita Beije (Sweden)

- ◆ At an extraordinary meeting of the EMBC in January 2004, the delegates unanimously supported a six-year indicative scheme that determines the maximum funds to be paid annually by the EMBC member states. The main focus of the scheme was the provision of a 5% per annum increase for each of the six years in addition to the annually calculated cost variation index (approximately equivalent to inflation).

At the two formal sessions of the EMBC, a number of important decisions were made:

- ◆ The eligibility criteria for EMBO short-term fellowships were altered such that scientists worldwide can apply for support to visit a European laboratory. Candidates from EMBC member states can also apply for funding to visit a laboratory outside Europe. Special selection conditions were associated with this changed rule. The new criteria represent an integration of the former EMBO World Programme fellowships (see p. 53).

The eligibility criteria of EMBO long-term fellowships were also changed to facilitate higher participation of parents (particularly mothers). The new criteria

incorporate the conditions of the former Restart fellowships. Provision is now made for candidates with childcare commitments to work part-time and extend the duration of their fellowship up to a maximum period of three years. In certain circumstances, eligible candidates are also not required to move countries to qualify for a fellowship (see p. 55).

- ◆ Following an assessment of the accumulated liability of the EMBC in terms of employer contributions to pension and end-of-contract commitments, the sum of 387,000 Euro was placed in a pension account. The EMBC will add to this amount on an annual basis.

- ◆ A quality audit was performed on the EMBO Courses and Workshops Programme to determine its impact on European research. The outcome was positive and favourably received by the EMBC delegates. The full report is available on the EMBO website (see p. 34).

- ◆ At each of the EMBC meetings in 2004, attention was given to the topic of the European Research Council (ERC). While the EMBC has not taken any for-

mal action in this area, it organised a discussion meeting on the ERC in conjunction with an EMBC Strategic Working Party meeting in Paris in September 2004. The EMBC also encouraged EMBO to continue with its efforts to co-ordinate an international view of the ERC proposal specifically referring to co-operating with the European Science Foundation (ESF) and the EUROHORCS (European Heads of Research Councils).

- ◆ The EMBC discussed the method used to calculate the scale of member state contributions. A decision was reached to make no change in the current procedure, which is based on net national income at factor cost (see p.128).



Gitta Bourke is the administrator for the EMBC.

♦ The EMBC discussed possible actions to strengthen science in some of its member states. Different options were considered and the decision was made to initiate a funding scheme to encourage scientists to start up laboratories in one of these countries. The working title for the new grants will be EMBO Strategic Development Installation Grants. Further discussions are planned to determine whether the programme, having been endorsed in principle, can also attract financial support from the member states.

♦ EMBO's interaction with the EMBC, in formal terms, is as an executor of the EMBC General Programme. In practice, however, EMBO has also been a source of new ideas and concepts over the years. Many of these are pre-tested using limited EMBO resources and after consideration frequently implemented by the EMBC. In 2003 and 2004 discussions on formalising or extending the EMBO/EMBC relationship concluded with EMBO being invited to provide advice on strategic policy matters to the EMBC on an annual basis. As an initial request, the

EMBC asked EMBO to put forward a list of leading EMBO scientists to the group responsible for proposing members of the European Research Council senate to the European Commission.

♦ The Articles of the EMBC make provision for entering into formal agreements with external organisations or countries. In 2004, a government representative from the Republic of South Africa attended an EMBC meeting and discussions on formalising an agreement were initiated. In the process, there was a broader discussion on the criteria that should be used for entering into such agreements. This discussion recognised that each potential co-operating country presents a different scenario and that the EMBC Strategic Working Party should consider each country on a case-by-case basis.

♦ The EMBC also fulfilled a number of financial duties including acceptance of the accounts for 2003, agreement on a budget for 2005 and endorsement of a 2004 cost variation index based on the changes in cost of living in the different member states.

♦ The EMBC officers for 2005 were elected as follows:

**Secretary General**

Frank Gannon

**President**

Marja Makarow (Finland)

**Vice Presidents**

Kresimir Pavelić (Croatia)

Peter Weisbeek (Netherlands)

**Chair of**

**Financial Advisory Group**

Brita Beije (Sweden)

**Vice-Chair of**

**Financial Advisory Group**

Maria José Almeida (Portugal)

joint EMBO & EMBC activities

fellowship programme

fellows network

courses and workshops programme

young investigator programme

electronic information programme

1966 → FELLOWSHIP PROGRAMME

1966 → COURSES AND WORKSHOPS PROGRAMME

1996 → FELLOWS NETWORK

2000 → YOUNG INVESTIGATOR PROGRAMME

2000 → ELECTRONIC INFORMATION PROGRAMME

**CONTACT**

**Jan Taplick**  
Programme Manager

**Liselott Ahlgren**  
Long-term fellowships  
Administrator

**Agnès Visser-de Matteis**  
**Laura Cortesi**  
Short-term fellowships  
Administrators

[fellowships@embo.org](mailto:fellowships@embo.org)

**EMBO fellowships applications and awards in 2004**

long-term fellowships	
applications	1137
awards	163

short-term fellowships	
applications	301
awards	167

**The EMBO Fellowship Programme supports international mobility and exchange in the biosciences. Renowned for its attention to scientific excellence, the programme has funded thousands of talented young scientists since its establishment in the 1960s. EMBO fellowships facilitate movement throughout the EMBC member states and also between non-member states and member states – funding research visits of varying durations and encouraging co-operation between scientists within Europe and beyond.**

**EMBO long-term fellowships**

EMBO long-term fellowships support advanced research and training, awarding funds to post-doctoral scientists for research visits to laboratories in an EMBC or non-EMBC member state for a period of up to two years. Currently EMBO awards an average of 160 long-term fellowships annually.

EMBO long-term fellowships experienced another record level of applications in 2004, with over 1100 applications logged. This illustrates the continued high demand for post-doctoral training in the life sciences – the application rate for long-term fellowships has almost doubled since 2001. Despite this dramatic increase in applications, funding of the EMBO Fellowship Programme has remained fairly constant. This resulted in a drop in the success rate to just under 15% in 2004, in comparison with 20–25% in previous years. However, 2004 also saw an agreement by the EMBC to increase the

programme’s budget year-on-year until 2009. This means that an increase in the number of fellowships awarded will be possible in coming years.

In 2004, the EMBO Fellowship Committee selected 163 applications for funding. 120 of these fellows moved to a laboratory in a different EMBC member state, while the remaining successful applicants took up post-doctoral posts in laboratories in the USA, Canada and Australia. A full list of successful applicants and related statistics is available on pages 80–95.

Following input from the EMBO Council, the Fellowship Committee discussed changes in the evaluation process for long-term fellowships in 2004. As a result, the Fellowship Committee was expanded to 15 members to cope with the high numbers of proposals and to ensure a continued fair and expert assessment of candidates. In addition a pre-screening of applications by

five committee members was introduced with the aim of pre-selecting approximately 50% of applicants to be interviewed and evaluated by EMBO members or young investigators. This change in the evaluation procedure resulted in a significantly lower number of interview requests – decreasing the workload for the individual committee members and ensuring that applicants with a chance of scoring well were fully assessed.

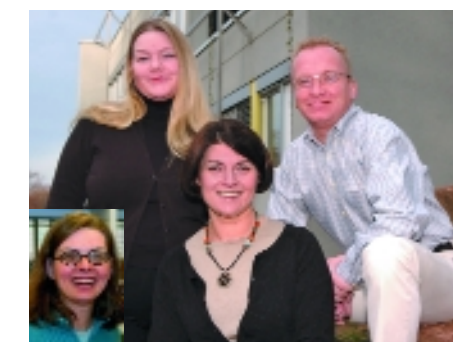
2004 also saw a new co-operation between EMBO and the Marie Curie Fellowship Scheme of the European Commission. Applicants who are successful in both programmes can now carry out both fellowships over a combined period of three years.

**EMBO short-term fellowships**

EMBO short-term fellowships support collaborative research visits of up to three months in EMBC member states and non-member states. These visits allow scientists to complement their research at home with new techniques unavailable in their home environment. Short-term fellowships also encourage continued collaboration between home laboratories and receiving institutes beyond the duration of the fellowship.

The demand for short-term fellowships also remained high this year with the scheme attracting over 300 applications – an increase on the application rate in 2003. EMBO short-term fellowship applications are evaluated by two expert referees from either the EMBO membership or the current group of EMBO young investigators. In 2004, 167 applications were selected for funding corresponding to a success rate of 55%. A full list of successful applicants and related statistics is available on pages 96–111.

Liselott Ahlgren (left), Agnès Visser-de Matteis and Jan Taplick take care of the EMBO fellowships. Laura Cortesi (below left) joined the team in 2004.



**Changes to fellowship application conditions**

In July 2004, the eligibility criteria for fellowship applications were enhanced to support applicants with childcare commitments and promote international collaboration.

**Long-term fellowships**

The new rules represent an integration of the former Restart fellowships (see p. 55).

Under certain conditions, candidates with childcare commitments can now apply for a fellowship within their current country of residence

Applicants with childcare obligations can now apply to carry out their fellowship on a part-time basis over a period of three years.

**Short-term fellowships**

The new rules represent an integration of the former World Programme fellowships (see p. 52–53)

Candidates from non-EMBC member states can now apply to take up fellowships in EMBC member states and *vice versa*.



**CONTACT**

**Jan Taplick**  
Programme Manager

**Liselotte Ahlgren**  
Long-term fellowships  
Administrator

**Agnès Visser-de Matteis**  
Short-term fellowships  
Administrator

[fellnet@embo.org](mailto:fellnet@embo.org)

**The fellows network helps EMBO to keep in touch with its fellows after they complete their long-term fellowship. The aim is to provide a common focal point for these promising young scientists as they progress throughout their careers – thereby fostering a sense of community and collaboration.**

The majority of EMBO long-term fellows continue in science after completing their fellowship, often establishing their own research group. Through the fellows network, EMBO maintains contact with the young researchers providing them with updates on recent developments within the organisation and information on opportunities in European science.

**annual fellows meeting**

A popular feature of the network is the annual fellows meeting, which has been taking place in Heidelberg since 1997. Three years after starting their fellowship, fellows are invited to attend and present the results of their research projects. Sessions are chaired by EMBO members, who offer information and advice based on their own experiences of the scientific career. The three-day meeting also features special lectures on science in industry and talks on career opportunities. In addition to gaining important career information, fellows also have the opportunity to build up longer-

term collaborations and friendships with other fellows.

The success of the annual fellows meeting is reflected in the fact that many participants return to subsequent meetings. For EMBO, these meetings are an important source of feedback on the Fellowship Programme and working conditions for fellows in different countries. In 2004, the EMBO fellows meeting and subsequent media workshop took place at the EMBL in Heidelberg on June 10–14.

**guest speakers**

Matt Cotton, Axxima Pharmaceuticals AG, Munich, D  
Seema Sharma, Science's Next Wave, Cambridge, UK  
Sabine Rehberger-Schneider, EMBO, Heidelberg, D

**scientific autobiographies – EMBO members**

Christine Clayton, Heidelberg, D  
Varda Rotter, Rehovot, IL  
Ivan Dikic, Frankfurt, D  
William Rutherford, Gif-sur-Yvette, F  
Luis Serrano, Heidelberg, D



Participants of the EMBO Fellows Meeting in Heidelberg, June 2004

**first North American meeting**

One new development in 2004 had its roots in communications with the fellows network. In November 2004, EMBO organised the first meeting of fellows who are currently in the USA or Canada. The aim was to keep fellows in North America up to date with developments in Europe.

The meeting took place on November 19–21 at Rockefeller University in New York and was hosted by the university's president and EMBO Council member, Sir Paul Nurse. Talks were delivered by EMBO young investigators and representatives of funding organisations from both Europe and the United States. The meeting met with enthusiastic feedback from participants and similar reunions are planned for the future.

**keynote lecture**

Sir Paul Nurse, New York, USA

**funding opportunity talks**

Marina Koch-Krumrei, DFG  
Joan Schwartz, NIH  
Georges Bingen, European Commission  
Frank Gannon, EMBO  
Torsten Wiesel, HFSP

**special talk**

Emilie Marcus, Cell Press, USA

**scientific talks –****EMBO young investigators**

Isabelle Mansuy, Zürich, Switzerland  
Anne Spang, Tübingen, Germany  
Andrea Musacchio, Milan, Italy  
Philippe Pierre, Marseille, France  
Tom Tuschl, New York, USA

**session chairs – EMBO members**

Daniela Rhodes, Cambridge, UK  
Antonio Coutinho, Oeiras, Portugal  
Giora Simchen, Jerusalem, Israel

**CONTACT**

**Mary Gannon**  
Programme Manager

**Kathy Oswald**  
Administrator

**Felise Fortmann**  
Administrator (as of 2005)

[courses\\_workshops@embo.org](mailto:courses_workshops@embo.org)

The EMBO Courses and Workshops Programme has been facilitating scientific training and exchange throughout Europe since the founding years of EMBO. Every year the programme provides funds for an average of 20 practical courses, 3 lecture courses, 20 workshops and 5 conferences covering a wide range of topics in molecular biology. The bi-annual closing dates for applications are February 1 and August 1.

In 2004, EMBO supported a total of 51 meetings throughout the EMBC member states – 20 practical courses, 2 lecture courses, 21 workshops and 8 conferences. Over 4,000 participants and invited speakers attended these events, helping to promote knowledge exchange and broaden the network of scientific interaction throughout Europe.

**practical courses**

EMBO practical courses act as an early catalyst for transferring cutting-edge techniques to a number of European laboratories. Up to 20 young scientists participate in these courses learning new methods as soon as they are identified. Some 370 participants from all over Europe attended EMBO practical courses in 2004.

**lecture courses**

These courses cater specifically for students at the early stages of their careers. Designed for approximately 100 participants, each

course comprises a series of expert lectures providing up-to-date information on developments in a range of diverse topics. Lecture courses are often held in new EMBC member states or member countries that are developing their science bases – providing a valuable boost to the local scientific communities. Approximately 100 students attended EMBO lecture courses in 2004.

**workshops**

EMBO workshops bring together up to 120 scientists from multi-disciplinary fields to engage in high-level discussions and exchange results on a topic of common interest. Over 1,800 scientists took part in EMBO workshops in 2004.

**conferences**

These larger-type workshops focus on topics of major importance to the scientific community in Europe. Catering for over 120 participants, they provide scientists with



the opportunity to establish new contacts and help to foster collaborative networks throughout Europe. In 2004, EMBO conferences attracted 1,400 participants.

**EMBC audit**

In 2004, a review of the Courses and Workshop Programme was undertaken at the request of the EMBC as part of its ongoing assessment of EMBO activities. The audit considered the actions of the programme between 1999 and 2003 and entailed a particularly detailed analysis of EMBO meetings that took place in 1999 and 2002. The findings of the audit were documented in a report, which was approved by the EMBC at its annual meeting in Rome in June 2004. The conclusions of the report were very positive and underlined the impact of the

programme on the training, development and interaction of Europe's scientists at all stages of the scientific career (available on the EMBO website at [www.embo.org/publications/archive.html](http://www.embo.org/publications/archive.html)).



Kathy Oswald and Mary Gannon organise the Courses and Workshops Programme and the World Activities (see p. 52).

## CONTACT

**Gerlind Wallon**  
Programme Manager

**Kim Piggott**  
Administrator

yip@embo.org

The EMBO Young Investigator Programme has been identifying and supporting outstanding young life scientists in Europe since 2000. The programme targets researchers who are within three years of having established their first independent laboratories in an EMBC member state. The aim of the programme is to give these promising young scientists an added advantage in the early years of their independent careers – drawing attention to the quality of their research and enhancing their standing in the scientific community.

Since the launch of the EMBO Young Investigator Programme, 148 scientists have been selected from over 1,000 applicants in Europe. Membership of the three-year programme entitles young investigators to a range of academic and practical support as well as a financial award made available by the individual EMBC member states. For scientists from regions where funding is more limited, EMBO also offers the possibility of top-up funds.



Kim Piggott and Gerlind Wallon look after the EMBO young investigators and activities supporting women in the life sciences (see p. 54).

#### promoting young investigators

The EMBO Young Investigator Programme offers its members valuable support on a number of levels. A growing number of activities are offered, many of which have been developed in line with the specific needs of the young investigator membership. These activities are designed to put a spotlight on the young scientists and enhance their prominence in the scientific community by:

◆◆◆ Facilitating networking amongst the young investigators via an annual meeting and interaction with the EMBO membership through a mentorship programme and the annual EMBO Members Workshop. The programme also provides financial support of joint group meetings and other collaborations. Joint publications in major scientific journals often result from these collaborative actions.

◆◆◆ Creating awareness for the activities of the Young Investigator Programme and the status of the individual scientists through sponsorship of special young investigator lectures at scientific events, publication of a brochure highlighting the scientists' research and an invitation to write reviews for *EMBO reports*.

◆◆◆ Organising an annual EMBO Young Investigator Symposium for the scientific community to facilitate interactive discussion of techniques or methods identified by EMBO young investigators. The 2004 symposium focused on chemical approaches to the study of biology attracting over 200 participants and speakers from Europe and the United States. A special issue of *ChemBioChem*, a European journal of chemical biology, highlights a number of contributions to the symposium (Volume 6, Issue 1, 2005).

◆◆◆ Supporting the young investigators' laboratories through annual PhD courses for their students and laboratory management courses for the young investigators themselves.

Since the inception of the Young Investigator Programme in 2000, five young investigators have been elected to the EMBO membership — Jürgen Knoblich and Jan-Michael Peters in 2002, Barry Dickson and Michael Glotzer in 2003 and Jan Löwe in 2004.

#### support of central Europe

In recent years, EMBO has established a co-operation with the Howard Hughes Medical Institute (HHMI) in support of scientists from Central Europe. A scheme launched in 2002 provided additional funds to selected scientists in the Czech Republic, Estonia, Hungary and Poland in conjunction with the EMBO Young Investigator Programme.

EMBO and HHMI also support the scientific community in Central Europe by organising an annual meeting in a Central European country. In 2004 the meeting took place in Prague and was attended by 100 scientists from all over Central Europe. The meeting also saw a decision by EMBO and HHMI to offer a new grants scheme to attract leading young scientists to Central Europe. The *EMBO/HHMI Startup Grants* will be launched at the next EMBO/HHMI meeting in Budapest, Hungary in February 2005.



The 2nd symposium organised by the Young Investigator Programme attracted more than 200 participants.

**CONTACT**

**Les Grivell**  
Programme Manager

**Ole Hansen**  
Technical Officer

**Anne Seller**  
Administrator

[eip@embo.org](mailto:eip@embo.org)

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



Scientists use the web to read literature and find other information relevant to their research. The Electronic Information Programme consists of three projects that aim to ease the process of accessing and interlinking digital information. The programme also provides technical support for other EMBO web-based activities.

**E-BioSci**

E-BioSci is a unique literature and gene search engine that integrates and inter-relates research literature in the life sciences with data from different molecular and genomic databases.

Developed by EMBO in collaboration with a number of other European organisations (see table opposite) and funded by the European Community (EC), E-BioSci is a web-based platform that enables users to access and navigate a range of geographically distributed molecular biology information resources. 2004 saw the launch of two new prototypes. The latest version, which has been available since November 2004 and includes improved cross-query and navigation functionality, is now undergoing intensive testing. The platform receives approximately 1,000 hits per day and has a global user base of approximately 15,000.

[www.e-biosci.org](http://www.e-biosci.org)

[www.embo.org/eip](http://www.embo.org/eip)

**ORIEL**

The ORIEL project also pools the resources of a network of European institutions (see table opposite). Funded by the EC, the project focuses on information management in the life sciences and aims to provide research communities with the tools to access and navigate large, complex digital datasets. Technology developed within the project is being applied within E-BioSci. ORIEL also offers stand-alone tools released under Open Source licences to encourage rapid adoption by user communities.

This year's joint ORIEL/E-BioSci Annual Workshop focused on web services in the life sciences and brought together a number of experts working in this area. The meeting, which was held on October 12–15, 2004 at the Wellcome Trust's Conference Centre on the Hinxton Genome Campus, was well attended and generated some lively discussions.

[www.oriel.org](http://www.oriel.org)

**E-BioSci partners**

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

**ORIEL partners**

EMBO (co-ordination)	
EUR	The Netherlands
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

**Life Sciences Mobility Portal**

The Life Sciences Mobility Portal is a one-stop online service that provides information on transnational career and training opportunities in the life sciences. The portal has been online since February 2004 and is open to all scientists, irrespective of their location or organisational affiliation. The project is funded by the EC and linked to the EC's own Researcher's Mobility Portal and *Science* magazine's *Science Next Wave* site. In addition to the extensive online information on the mobility of researchers, the Life Sciences Mobility Portal also provides a personal consultancy service with individual advice on finding transnational funding sources. So far, the user statistics show an average of 2,000 users per month. The majority of visits come from Western Europe with a strongly increasing tendency from Eastern and Central European countries.

<http://mobility.embo.org>

**CONTACT**

**Sabine Rehberger-Schneider**  
Life Sciences Mobility Consultant

**Laura Cortesi**  
Data Manager

[mobility@embo.org](mailto:mobility@embo.org)

Sabine Rehberger-Schneider (right) and Laura Cortesi (left) are responsible for the Life Sciences Mobility Portal.



1953 → THE EMBO JOURNAL
1956 → EMBO GOLD MEDAL
1996 → PLENARY LECTURES
1996 → SCIENCE & SOCIETY ACTIVITIES
1999 → SECTORAL MEETINGS
2000 → EMBO REPORTS
2000 → WORLD ACTIVITIES
2000 → EUROPEAN LIFE SCIENCES FORUM – ELSF
2001 → ACTIVITIES SUPPORTING WOMEN IN THE LIFE SCIENCES
2002 → EMBO AWARD FOR COMMUNICATION IN THE LIFE SCIENCES

## EMBO additional activities

*The EMBO Journal*

*EMBO reports*

science & society programme

EMBO gold medal

EMBO award for communication in the life sciences

plenary lectures

sectoral meetings

world activities

women in the life sciences

EMBO communications

european life sciences forum

EMBO's activities fall into two categories: those that are part of the General Programme, supported by the EMBC, and those initiated and developed by EMBO as an independent organisation. These additional activities are funded mainly by the profits from EMBO's journals.

**EDITORS & CONTACT**

**Iain Mattaj**  
Executive Editor

**Frank Gannon**  
Associate Editor

**Susan Gasser**  
Editor-in-Chief

**Valerie Ferrier**  
**Connie M. Lee**  
**Astrid Lunkes**  
**Volker Wiersdorff**  
Editors

**Claire Johnstone**  
**Sophia Katsogiannos**  
**Sara Quirk**  
**Karen Thompson**  
Editorial Assistants

[contact@embojournal.org](mailto:contact@embojournal.org)

**The EMBO Journal is a high-quality print and online publication that covers all areas of molecular biology. In its 22 years of existence, The EMBO Journal has established itself as one of the leading molecular biology journals worldwide with a current impact factor of 10.456.**

January 2004 saw *The EMBO Journal* change publishers from Oxford University Press to Nature Publishing Group (NPG). This move has had no impact on the journal's editorial process or decision-making regarding submitted articles. It did, however, present the opportunity to make some alterations to the design and organisation of the print and online versions of the journal.

One notable change was the assignment of individual manuscripts to some of the journal's eighteen subject categories, which together represent the full scope of the journal. This increases the visibility of individual articles and allows readers to pinpoint articles relevant to their research more quickly and easily. A further opportunity for article exposure came with the highlighting of *The EMBO Journal* articles on other high-traffic NPG web pages.

**submission and editorial process**

The number of manuscripts submitted to *The EMBO Journal* continued to increase in 2004 by approximately 7.5%, while the per-

centage of acceptance decreased slightly (from 18.1% in 2003 to an estimated 17.2% in 2004). Approximately 55% of submissions are selected for peer review by the editors, who meet daily with the Executive Editor to discuss new manuscripts. The Advisory Editorial Board is also consulted when required. The decision on whether to publish peer-reviewed manuscripts is based on commentary from expert referees.

In 2004, the first preparations were made for a transfer from the current manuscript-tracking system to a web-based system. The main aim is to enable online submission of manuscripts and referee reports. The new database, which is due to be launched in 2005, will also help *The EMBO Journal* staff to track manuscripts, authors and referees more efficiently.

**advisory editorial board**

In October 2004, the first meeting of the joint Advisory Editorial Board of *The EMBO Journal* and *EMBO reports* was held in Vienna, following the EMBO Members Work-

shop. Approximately 10% of the Advisory Editorial Board attended along with *The EMBO Journal* and *EMBO reports* editors, EMBO Executive Director Frank Gannon (Associate Editor of *The EMBO Journal* and Senior Editor of *EMBO reports*) and representatives of NPG. The meeting served as an opportunity to assess the running of *The EMBO Journal*, its current performance and potential improvements. Discussions proved very fruitful and the decision was made to continue to hold regular Advisory Editorial Board meetings in the future.

**Scope of The EMBO Journal**

*The EMBO Journal's* 18 subject categories represent the scope of the journal.

↔ Structural Biology	↔ Development
↔ Membranes & Transport	↔ Differentiation & Death
↔ Cell & Tissue Architecture	↔ Cellular Metabolism
↔ Signal Transduction	↔ Neuroscience
↔ Chromatin & Transcription	↔ Immunology
↔ RNA	↔ Plant Biology
↔ Proteins	↔ Microbiology & Pathogens
↔ Cell Cycle	↔ Molecular Biology of Disease
↔ Genome Stability & Dynamics	↔ Genomic & Computational Biology



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



Astrid Lunkes, Volker Wiersdorff, Valerie Ferrier and Connie Lee at one of their daily editors' meetings (from left to right).



Iain Mattaj retired as Executive Editor of *The EMBO Journal* in December 2004. Iain will be replaced by EMBL Senior Scientist and EMBO member, Pernille Rørth.

**EDITORS & CONTACT**

**Frank Gannon**  
Senior Editor

**Susan Gasser**  
Editor-in-Chief

**Christine M. Blaumueller**  
Science Editor,  
Scientific Reports

**Susan R. Owens**  
Science Editor, Reviews

**Holger Breithaupt**  
News Editor

**Caroline Hadley**  
Assistant Editor

**Uta Mackensen**  
Graphics Editor

**Caroline Simpson**  
Editorial Assistant

[emboreports@embo.org](mailto:emboreports@embo.org)

**EMBO reports is a print and online journal dedicated to the rapid publication of sharply focused short papers and review articles in all areas of molecular biology. The journal also features commentaries on the social impact of advances in the life sciences and the influence of society on science.**

Launched in July 2000, *EMBO reports* has rapidly become recognised as a unique and valuable contribution to the scientific literature. Its current impact factor is 7.390 reflecting the high quality of the journal's content. Since January 2003, *EMBO reports* has been published by Nature Publishing Group (NPG), which has increased the visibility of the journal. Articles are highlighted across the *Nature* subject areas, are featured regularly in both the weekly Research and Reviews updates and the *AfCS-Nature Signaling Gateway*, and are also included in web focuses on various topics.

**2004 highlights**

The highlights in 2004 for *EMBO reports* were the publication of a dedicated review series on molecular medicine in the July to October issues and a Science & Society Special Issue on "Risk: challenges, research and social implications", published in October. 2004 also saw a continued increase in submissions for the journal's Scientific Reports section. This was due in part to the

possibility of e-mail submission as opposed to hard copy. In 2004, preparations were made to switch *EMBO reports* to a web-based manuscript-handling system. This will happen in 2005 and enable online handling and submission of articles and referee reports.

On the editorial side, the first meeting of the joint Advisory Editorial Board of *The EMBO Journal* and *EMBO reports* took place in Vienna, in October 2004. The meeting provided an opportunity to discuss the current statistics and future policies of the journals. Meetings of the Advisory Editorial Board will continue to take place regularly in the future.

**scope and content**

*EMBO reports* complements its sister publication, *The EMBO Journal*, by providing a variety of short formats to cover topics related to molecular biology. Divided into three sections, the journal is designed to inform not only the molecular biologist, but

also those interested in the current dialogue on the relationship between science and society.

The *Science & Society* section features essays and articles on topics beyond the realms of pure scientific research. The articles provide commentary and analysis on the impact of politics, industry, finance and society on the environment in which scientific research is carried out – as well as considering the consequences of biological research for society. Article formats include:

- ♦ *Editorials* – insights from the editors
- ♦ *Correspondence* – response and commentary
- ♦ *Book reviews* – critiques of current publications
- ♦ *Viewpoints* – expert opinions
- ♦ *Analysis* – journalistic perspectives
- ♦ *Interviews* – with those shaping science

The *Reviews* section distils the vast amount of scientific information presented in the literature into concise articles that can be easily digested by the general reader. These articles are written by leading experts in the field and presented in four formats:

- ♦ *Reviews* – concise updates on rapidly changing research areas
- ♦ *Concepts* – reviews with an eye to the future
- ♦ *Meeting reports* – the latest developments from recent conferences
- ♦ *Literature reports* – highlights of important papers

*Scientific Reports* are sharply focused primary research papers that provide major new insights into a particular 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 Hadley and Caroline Simpson



**CONTACT**

**Andrew Moore**  
Programme Manager

**Alessandra Bendiscioli**  
Administrator

[scisoc@embo.org](mailto:scisoc@embo.org)

Sandra Bendiscioli and Andrew Moore run the Science & Society Programme.



**The Science & Society Programme has the overall aim of making science and scientists more accessible to society. The programme supports scientists in their communication with non-scientists, focusing on specific groups such as teachers and the media. Furthermore, it stimulates open dialogue on issues of intense social interest, promoting the development and communication of modern biology.**

**Rewarding science communicators**

2004 could be described as the European year of science communication. Increasing interest in this area led the European Commission to launch the Descartes Prize for Science Communication. This initiative puts into competition the winners of other communication prizes, among them the EMBO Award for Communication in the Life

Sciences, which is presented annually to a practising life scientist in Europe for significant contributions to public engagement in science. EMBO proposed three of its previous winners for the Descartes prize, all of whom reached the final. Peter Csermely, EMBO winner in 2003, won one of the five categories for his Network of Youth Excellence project.

The 2004 winner of the EMBO Award for Communication was Fran Balkwill, who was honoured for her outstanding contribution to science communication for children. The full-time professor of cancer biology has written 13 children's science books (see p. 49). EMBO has nominated Fran Balkwill for the 2005 Descartes Prize for Science Communication.

**Educational resources for teachers**

Communication with teachers remains another major success area of the Science & Society Programme. In 2004, the last in a series of nine international practical workshops took place throughout Europe. The workshops were co-ordinated by EMBO as part of its EC project, Continuing Education for European Biology Teachers (CeeBT). Around 750 teachers were touched by these workshops, bringing EMBO's education network to over 1,000 teachers in more than 20 countries. In 2004, EMBO also sup-

ported a workshop in the Ukraine and collaboration between EMBO and the European Molecular Biology Laboratory (EMBL) resulted in further workshops in Portugal. EMBO offers a DVD and guide for organisers of similar events.

EMBO also supports science educators through its annual international practical workshop for teachers. The third workshop took place in May 2004 in Heidelberg, Germany. EMBO again played host to 120 of the most motivated teachers in Europe, who learnt new techniques in biology through practical experiments and lectures.

**EMBO/EMBL Joint Science & Society Conference**

Every year EMBO and EMBL organise a Joint Science & Society Conference to facilitate discussion between scientists and non-scientists on topics of major social significance. The 2004 conference looked at time and ageing. From theories on why mild stress can be good for you to doubts about the caloric restriction model of life extension in humans, the event presented a fascinating variety of opinions on the potential of living longer. Over 200 participants from around 20 countries took part in presentations and discussions.

**Communication skills for scientists**

The Science & Society Programme is engaged in a number of activities promoting effective communication skills. Participants were certainly not silent at a science and society special session at the EMBO Members Workshop in Vienna, Austria. Organised as an interactive communication training session, EMBO members benefited greatly from the experience. The annual EMBO Science Writing Prize was also awarded at the Members Workshop. The winning essay by Matthew Bottomley took an entertaining look at the importance of bacterial quorum sensing in pathogenicity.

Young scientists were also coached in communication skills at EMBO's annual Media Workshop, organised in 2004 in conjunction with Bernard Dixon OBE. Film footage of the workshop has been made into a media skills training DVD, which is available from EMBO on request.

A new activity in 2004 recognised that communication ideas are plentiful among scientists and often only need an initial injection of cash to get off them the ground. EMBO launched the Small Grants Scheme, inviting enquiries from life scientists with an interesting communications concept to develop.

**2004 highlights**


---

**3rd international practical workshop for biology teachers**


---

[www.embo.org/scisoc/teachers04.html](http://www.embo.org/scisoc/teachers04.html)

---

**Teachers workshops and educational resources**


---

[www.embo.org/scisoc/education.html](http://www.embo.org/scisoc/education.html)

---

**4th EMBO media workshop**


---

[www.embo.org/scisoc/media04.html](http://www.embo.org/scisoc/media04.html)

---

**Science writing prize**


---

[www.embo.org/scisoc/writing\\_prize.html](http://www.embo.org/scisoc/writing_prize.html)

---

**Special science & society session at EMBO Members Workshop**


---

[www.embo.org/scisoc/special\\_sessions.html](http://www.embo.org/scisoc/special_sessions.html)

---

**Award for communication in the life sciences**


---

[www.embo.org/awards/communications.html](http://www.embo.org/awards/communications.html)

---

**5th EMBO/EMBL joint conference on science & society**


---

[www.embl.org/aboutus/sciencesociety/index.html](http://www.embl.org/aboutus/sciencesociety/index.html)



The EMBO Gold Medal is awarded annually to an outstanding young scientist for exceptional research carried out within Europe. The prize highlights the standards being reached in molecular biology in Europe – bringing the very best young scientists to the attention of a global audience.



The 2004 winner of the EMBO Gold Medal was **María Blasco**, Director of the Molecular Oncology Programme at the Spanish National Cancer Center (CNIO) in Madrid. María was honoured in recognition of her landmark work in the area of telomeres. The scientist's research has had a ground-

breaking impact on cancer research and received wide recognition in the field.

The EMBO Gold Medal was presented to María Blasco on October 15, 2004 at the Austrian Ministry of Science in Vienna as part of the EMBO Members Meeting.

**The EMBO Gold Medal awards roll includes many distinguished scientists:**

1986	<b>John Tooze</b> (Heidelberg, D)
1987	<b>Barbara Pearse</b> (Cambridge, UK)
1988	<b>Antonio Lanzavecchia</b> (Basel, CH)
1989	<b>Hugh Pelham</b> (Cambridge, UK)
1990	<b>Erwin Wagner</b> (Vienna, A)
1991	<b>Patrick Stragier</b> (Paris, F)
1992	<b>Carl-Hendrik Heldin</b> (Uppsala, S)
1993	<b>Jim Smith</b> (London, UK)
1994	<b>Paolo Sassone-Corsi</b> (Strasbourg, F)
1995	<b>Richard Treisman</b> (London, UK)

1996	<b>Enrico Coen</b> (Norwich, UK)
1997	<b>Dirk Görlich</b> (Heidelberg, D)
1998	<b>Adriano Aguzzi</b> (Zurich, CH)
1999	<b>Konrad Basler</b> (Zurich, CH)
2000	<b>Christof Niehrs</b> (Heidelberg, D) and <b>Daniel St. Johnston</b> (Cambridge, UK)
2001	<b>Matthew Freeman</b> (Cambridge, UK)
2002	<b>Amanda Fisher</b> (London, UK)
2003	<b>Anthony Hyman</b> (Dresden, D)
2004	<b>María Blasco</b> (Madrid, E)



The EMBO Award for Communication in the Life Sciences is presented annually to a practising life scientist in Europe who has made significant contributions to public engagement in science. The award highlights the exceptional efforts made by some scientists to combine science communication activities with a full-time research career.

The winner in 2004 was **Fran Balkwill**, Professor of Cancer Biology at the Barts & The London, Queen Mary's Medical School in London, UK. Fran received the award in recognition of her outstanding contribution to science communication for children and her remarkable ability to combine these efforts with a full-time and highly successful research career.

**A way with words**

Since 1990, Fran Balkwill has written 13 acclaimed children's books, using punchy narrative and imaginative illustrations to explain the workings of the human body, stem cells, viruses and cancer. Fran's latest two books, although equally entertaining, have a more profound goal. *Staying Alive: Fighting HIV/AIDS* and the upcoming revised edition, *You, Me & HIV*, are aimed at educating children at risk of contracting HIV in sub-Saharan Africa.

In 2002, 19,000 copies of *Staying Alive: Fighting HIV/AIDS* were distributed free of

charge throughout South Africa and in 2005, the second edition will reach 100,000 more children and educators in sub-Saharan Africa.

**Centre of the Cell**

Since 2001, Frances Balkwill has also been the driving force behind a major science education project in London's East End. Due to open in April 2006, the *Centre of the Cell* will be the first science education centre to be housed within a medical school with working research laboratories. The aim is to draw children into the exciting world of biomedical research through interactive exhibits and hands-on activities.

The Award for Communication medal and a prize of 5,000 Euro were presented to Fran Balkwill on November 5, 2004 at the EMBL/EMBO Science & Society Conference. Winners of the EMBO Award are also proposed for the European Commission's Descartes Prize for Science Communication.



**CONTACT**

**Mary Gannon**  
Programme Manager

**Kathy Oswald**  
Administrator

**Felise Fortmann**  
Administrator (as of 2005)

[courses\\_workshops@embo.org](mailto:courses_workshops@embo.org)

EMBO has been sponsoring plenary lectures by EMBO members at major international scientific meetings since 1999. The programme has a dual purpose – to give EMBO members the opportunity to intensify exchange and collaboration with scientists from associated fields and to bring EMBO activities to the attention of a wider scientific audience.

In 2004, EMBO sponsored a total of 31 plenary lectures. 22 EMBO members delivered lectures at European events in twelve of the EMBC member states. Nine EMBO members brought “The EMBO Lecture” to international meetings in six different countries as far afield as India and Argentina. See page 124 for full details of EMBO lectures in 2004.

In 2004, EMBO members delivered plenary lectures at major scientific meetings in the following countries (full details p. 124)	22 lectures in Europe	9 lectures outside Europe
	↔ Czech Republic ↔ Norway	↔ Argentina
	↔ Denmark ↔ Poland	↔ Australia
	↔ France ↔ Portugal	↔ Chile
	↔ Germany ↔ Spain	↔ India
	↔ Hungary ↔ Switzerland	↔ Thailand
	↔ Iceland ↔ United Kingdom	↔ USA
	↔ Italy	

EMBO sectoral meetings ensure strong contacts between EMBO and its members in the various areas of molecular biology. This enables EMBO to respond to the different needs and trends in these specific sectors. Since the initiative was launched in 1999, EMBO has organised sectoral meetings in the areas of neurobiology, plant biology, microbiology, immunology and molecular medicine.

**2004 sectoral meeting**

The 2004 sectoral meeting focused on the timely topic of bioinformatics and computational biology. Held at the Accademia Nazionale dei Lincei in Rome, Italy and organised locally by EMBO member, Anna Tramontano, the meeting attracted 49 EMBO members and approximately 120 local scientists with an interest in bioinformatics. The programme featured a number of first-rate scientific sessions on computational genomics, structural studies, cell biology and molecular medicine – all providing up-to-date perspectives and insights on the topic.

Participants also had the opportunity to hear about EMBO’s activities and the organisation’s impact on the community of computational biology and bioinformatics. EMBO’s most recent initiative in this area is a new electronic journal dedicated to systems biology and synthetic biology. *Molecular Systems Biology* will be launched

jointly by EMBO and Nature Publishing Group (NPG) in March 2005.

The 2004 meeting concluded with a presentation on the BioSapiens Network of Excellence, a virtual institute for genome annotation funded by the European Union (EU). This was followed by round-table discussions on the relationship between computational and experimental science. The outcome of these discussions has led EMBO to consider possible follow-up actions that would address the interface between the computational and experimental sectors and bring benefit to both communities in Europe.

**follow-up meetings**

2004 also saw the first follow-up to a sectoral meeting. The molecular medicine theme of the 2003 meeting was continued in November 2004 with a disease-targeted meeting focusing on molecular biology and leukaemia. Similar follow-up meetings on other diseases are planned for future years.

**CONTACT**

[embo@embo.org](mailto:embo@embo.org)

**CONTACT**

**Mary Gannon**  
Manager

**Kathy Oswald**  
Administrator

**Felise Fortmann**  
Administrator (as of 2005)

[courses\\_workshops@embo.org](mailto:courses_workshops@embo.org)

**In recent years, EMBO has made concerted efforts to widen its reach beyond Europe. EMBO World Activities have become an integral part of many EMBO programmes with the aim of attracting applicants from outside Europe and promoting international collaboration. In 2004, EMBO World Activities continued to gain momentum, particularly within the developing world.**

### **international training and collaboration**

EMBO World Activities offer opportunities for scientific exchange and training worldwide, acting as a catalyst for lasting international collaborations. This is made possible through EMBO training and fellowship opportunities.

In 2004, eight fellowships were awarded to researchers outside Europe. During visits to European laboratories of a three to nine month duration, scientists had the opportunity to collaborate on common research topics and learn new techniques. On return to their home laboratories, researchers were able to share these new techniques with their groups and embark on longer-term collaborations with the host laboratories. Fellowship recipients are listed on page 126.

These fellowships were offered under the EMBO World Programme until July 2004, when they were integrated into the EMBO short-term fellowship scheme (see side bar

opposite). The new eligibility criteria allow for greater mobility between EMBC and non-EMBC member states.

### **courses and workshops**

Building on the impact of EMBO courses and workshops in Europe, nine practical courses outside Europe were supported by the EMBO World Programme in 2004. These courses brought together students from different continents to interact and learn new methods. Seven of the courses were jointly funded with other international organisations – ICRO, UNESCO, CAS, and A-IMBN.

Three international EMBO workshops enabled scientists from different countries to engage in high-level discussions, exchange results and forge new collaborations. Two of the workshops were funded jointly with the CAS and the Wellcome Trust.

EMBO also sponsored nine plenary lectures outside Europe in 2004 with the aim of raising the profile of European science internationally. In July 2004, all international

EMBO courses and workshops were integrated into the EMBO Courses and Workshops Programme (see p. 119,121,125).

### **Screening service**

In 2003, EMBO entered into a co-operation with the Chinese Academy of Sciences (CAS) to offer a screening service for Chinese post-doctoral applicants wishing to visit a European laboratory. In 2004, an initial pilot scheme was set up. Its success was dependent on the interest and involvement of group leaders in European host laboratories. Unfortunately this proved to be much less widespread than expected. As an alternative, EMBO will set up the service via a web-based data bank, where interested post-docs from outside Europe can deposit their scientific details. The information posted will be available to the European scientific community. This approach will be monitored for six to nine months to determine its effectiveness.

### **Mobility information**

Through services such as the EMBO Life Sciences Mobility Portal, part of the EMBO Electronic Information Programme, EMBO is able to provide information on European funding sources and grant application pro-

cedures to interested scientists from outside of Europe (see p. 39).

### **International co-operation**

In 2004, EMBO continued to engage in valuable interactions with international scientific organisations. In co-operation with the Human Frontier Science Program (HFSP), the Wellcome Trust and the Third World Academy of Sciences (TWAS), EMBO co-ordinated a project to examine educational opportunities, research accomplishments and science policy in a selection of resource-constrained countries.

A background report was prepared at EMBO and presented at a meeting in Trieste, Italy in November 2003. The meeting brought together representatives of major international funding organisations to discuss possibilities for support of life sciences education and research in developing nations. The conclusions of the meeting are laid out in a report called "Promoting life science research and training in developing countries: a need for concerted action" (available on the EMBO website at [www.embo.org/publications/archive.html](http://www.embo.org/publications/archive.html)).



**New fellowship application conditions encourage international collaboration**

The fellowships formerly offered under the EMBO World Programme were integrated into the short-term fellowship scheme in 2004.

The aim is to attract applicants from outside Europe and encourage international mobility and collaboration.

♦ Candidates from non-EMBC member states can now apply to take up fellowships in EMBC member states. The same is true for applicants from EMBC member states wishing to collaborate with a laboratory in a non-member state.

**CONTACT**

**Gerlind Wallon**  
Manager

**Kim Piggott**  
Administrator

women@embo.org

**EMBO promotes the highest standards of research throughout its member states at all stages of the scientific career. In recent years, EMBO has made efforts to assess and act on imbalances or uncertainties in the life sciences career path – examining the potential differences and difficulties for particular groups including researchers with childcare commitments and female scientists.**

**family-friendly research conditions**

EMBO is committed to fostering family-friendly conditions in research. In 2002 and 2003, EMBO offered Restart fellowships to encourage scientists who had taken a career break for childcare reasons to re-enter science. In July 2004, the positive impact of this initiative led to the integration of the Restart eligibility criteria into the EMBO long-term fellowship scheme (see side bar opposite).

The new long-term fellowship conditions bring greater flexibility to candidates with childcare obligations. Scientists who have interrupted their careers for at least one year to care for their children can now apply to take up a fellowship within their

current country of residence. A new part-time option has also been introduced, whereby applicants with childcare commitments can apply to carry out their two-year fellowship over a period of up to three years.

**gender balance in the life sciences**

EMBO is acutely aware of the low representation of women in senior positions in science. Although both genders are equally represented at graduate level, women leave science in disproportionately higher numbers during the later stages of the academic career. This is a matter of great concern to EMBO. In order to analyse the impact of this situation on its own activities, the organisation actively monitors the participation of

women and men in its membership, fellowships, courses and workshops (see p.127 for the 2004 statistics).

EMBO committees are made aware of the participation of male and female scientists in EMBO activities through an annual report provided to each programme. The issue of gender balance and possible ac-

tions are discussed in the EMBO Science & Society Committee. In 2004, EMBO continued to evaluate the selection procedures and success rates of its programmes. The aim is to ensure that there are no factors that could potentially deter talented scientists of either gender from participating in or benefiting from EMBO opportunities.

**New fellowship conditions to support candidates with childcare commitments**



In July 2004, the eligibility criteria for long-term fellowships were enhanced to cater for applicants with childcare commitments. The changes are intended to foster family-friendly conditions in research and help scientists return to the bench after a career break for childcare. The new criteria represent an integration of the former Restart fellowships:

◆ The mobility requirement was waived for candidates wishing to return to research after taking a recent career break for childcare reasons. Eligible applicants can now apply for a fellowship within their current country of residence.

◆ Applicants with childcare commitments now have the flexibility to apply to carry out their fellowship on a part-time basis over a period of three years. This development is in line with the 2003 extension of support for fellows taking maternity or paternity leave.

**CONTACT**

**Lindsay Johnson**  
Communications Officer

**Uta Mackensen**  
Graphic Designer

**Lynne Turnbull**  
Administrator

[communications@embo.org](mailto:communications@embo.org)

The EMBO communications office serves as an information resource for the scientific community, the media and the general public. A number of targeted activities also support an active communication channel between the organisation and its broad network of members, young investigators and fellows.

**keeping the EMBO community informed**

In 2004, EMBO carried out a survey of its membership. The overall results were positive revealing a high degree of satisfaction with EMBO's activities. At the same time, the survey identified a need for improved dissemination of information amongst the EMBO members. To this end and following discussions with the EMBO Council, the communications office launched *EMBO encounters*, a new quarterly news publication.

*EMBOencounters* provides a forum for information exchange – not only between EMBO and its network of scientists but also between the scientists themselves. A variety of features bring readers the latest news from EMBO and also highlight the activities and achievements of EMBO members, young investigators and fellows. *EMBOencounters* also serves as an excellent resource for the wider scientific community and the general public.



*EMBOencounters* features the latest news from EMBO and the EMBO Community of members, young investigators and fellows. It is available online at [www.embo.org/about\\_embo/news.html](http://www.embo.org/about_embo/news.html)

**getting the message across**

2004 saw EMBO develop a consistent design concept for its communications materials. The aim is to increase the clarity and distinctiveness with which the organisation presents information on its activities. The brochures, posters, flyers and calendars produced in 2004 demonstrate this coherent design concept, providing clear and consistent information on EMBO activities and events. Many of these can be downloaded from the EMBO website:

[www.embo.org/publications/archive.html](http://www.embo.org/publications/archive.html)

In 2004, the communications office also consolidated its advertising efforts – developing an advertising plan and increasing the quantity and range of adverts appearing across EMBO's journals and other major scientific publications. EMBO also exhibited at major European scientific meetings (ELSO and the FEBS Congress) providing the scientific community with an opportunity to speak directly with EMBO staff and find out more about EMBO opportunities.

**talking to journalists**

The EMBO communications office maintains regular contact with the European press – issuing press releases on EMBO events, awards and activities, fielding enquiries from the media and hosting journalists at EMBO events. In 2004, the winners of the EMBO Gold Medal (see p. 48) and the EMBO Award for Communication in the Life Sciences (see p. 49) attracted strong media interest. The 2004 EMBO members meeting in Vienna, Austria was also covered in the Austrian press.



Lynne Turnbull, Lindsay Johnson and Uta Mackensen are responsible for the preparation of all EMBO information materials.

**CONTACT**

**Luc van Dyck**  
Executive Co-ordinator

[luc.vandyck@elsf.org](mailto:luc.vandyck@elsf.org)

**The European Life Sciences Forum (ELSF) is a platform of organisations representing the life sciences in Europe. The organisation was founded in 2000 by EMBO, the Federation of European Biochemical Societies (FEBS), the European Molecular Biology Laboratory (EMBL) and the European Life Scientist Organization (ELSO). The mission of ELSF is to increase the visibility and impact of the research community in public and policy-making arenas with the aim of advancing research and strengthening the scientific voice in European society.**

Since 2003, ELSF has been a prominent player in the debate on the establishment of a European Research Council (ERC). The idea behind the ERC is the creation of a new instrument to foster and fund basic research in all scientific disciplines on a European level. ELSF has been very active over the past two years – collecting and promoting scientists’ opinions and expectations of the ERC and lobbying policy-makers through conferences, publications and other targeted activities.

**Initiative for Science in Europe (ISE)**

In November 2003, ELSF and its founding members recognised the need to join forces with representatives from organisations active in other scientific disciplines. To this end, a multi-disciplinary group came together to form the Initiative for Science in Europe (ISE), under the chairmanship of José Mariano Gago – the then former Portu-

guese Minister of Science and Technology and one of the initiators of the Lisbon Agenda. The founding members of the ISE group are representatives from ELSF, Euro-science, the European Science Foundation (ESF), the European Physical Society (EPS), the European University Association (EUA) and the Group of European Nobel Laureates. The executive secretariat of ISE is run by ELSF and consequently the life sciences maintain a leading role in the campaign.

In 2004, the ISE group organised two conferences on the ERC – the first at the European Parliament in Brussels in February and the second, in October, at UNESCO in Paris. The aim of these conferences was to maintain momentum in the ERC debate and provide a forum to further identify and discuss the positions of the scientific community. ISE also drafted an appeal supporting the creation of an ERC, which was endorsed by 52 European scientific organi-

sations and published in *Science* in August 2004 (“Creating a European Research Council” – Vol. 305, Issue 5685, 776–777, 6 August 2004).

**founding goals of ISE**

The Paris conference also marked the official launch of ISE as an independent and informal multi-disciplinary platform of organisations committed to the scientific and technological development of Europe. ISE’s primary objective is the establishment of the ERC. Its broader aim, however, is to provide a common forum to promote independent scientific advice in European policy-making and stimulate the involvement of scientists in the design and implementation of European science and technology policy. ISE membership now comprises more than 35 European organisations with a strong representation from the life sciences and biomedical research communities.

The collective efforts of organisations like ELSF and ISE have had an important impact on the ERC debate. What initially started as a pipe dream of the scientific community is now closer to reality than ever. The creation of an ERC has the support of the majority of the European Union (EU) member states and the European Com-

mission has suggested it as one of the axes of its next Framework Programme (FP7), due to start in January 2007.

However, much work still lies ahead – notably to ensure that the ERC becomes more than a mere funding body and receives appropriate funding. Equally important will be the safeguarding of the ERC’s autonomy from political intervention and the recognition of the role scientists have to play in its design, implementation and delivery. In this way, the work of ELSF and ISE is far from over and both organisations will continue to monitor and actively accompany the developments on the ERC.



Luc van Dyck is the Executive Co-ordinator of the European Life Sciences Forum (ELSF).

## appendix

**delegates and advisers from the EMBC member states**

**council members & committees 2004**

**council members & committees 2005**

**new members 2004**

**advisory editorial board 2004**

**long-term fellowship awards 2004**

**long-term fellowships: statistics & geographical distribution**

**short-term fellowship awards 2004**

**short-term fellowships: statistics & geographical distribution**

**young investigators selected 2004**

**EMBO/HHMI scientists selected 2004**

**young investigators selected 2001, 2002 & 2003**

**young investigator statistics**

**young investigator lectures 2004**

**courses, lectures, workshops, conferences 2004**

**plenary lectures 2004**

**world programme fellowships 2004**

**participation of women in EMBO activities**

**scale of contributions from EMBC member states**

**EMBO staff in heidelberg**

**AUSTRIA**

**Prof. Annemarie Frischauf**  
Dept. of Molecular Biology  
University of Salzburg  
Hellbrunnerstrasse 34  
A-5020 Salzburg  
tel +43 1 662 8044 5779  
fax +43 1 662 8044 144  
annemarie.frischauf@sbg.ac.at

**Mag. Elisabeth Tischelmayer**  
Federal Ministry for Science,  
Education and Culture  
BM:BWK  
Referat VI/1  
Rosengasse 2-6  
A-1014 Vienna  
tel +43 1 53120 7120  
fax +43 1 53120 81 7120  
elizabeth.tischelmayer@bmbwk.gv.at

**BELGIUM**

**Ms. Nicole Henry**  
Belgian Science Policy Office  
Rue de la Science 8  
B-1040 Brussels  
tel +32 2 238 3507  
fax +32 2 230 5912  
henr@belspo.be

**Prof. Marc van Montagu**  
Laboratory of Genetics  
Rijksuniversiteit  
K.L. Ledeganckstraat 35  
B-9000 Gent  
tel +32 9 264 87 27  
fax +32 9 264 87 95  
marc.vanmontagu@ugent.be

**CROATIA**

**Dr. Kresimir Pavelic**  
Rudjer Boskovic Institute  
Division of  
Molecular Medicine  
Bijenicka c. 54  
POB 180  
HR-10002 Zagreb  
tel +385 1 468 0094  
fax +385 1 456 1010  
pavelic@irb.hr

**CZECH REPUBLIC**

**Ms. Jana Bystrická**  
Ministry of Education,  
Youth and Sports  
Karmelitská 7  
CZ-118 12 Prague 1  
tel +420 2 66 106 662  
fax +420 2 66 106 668  
bystrick@msmt.cz

**Ms. Irena Krumlova**  
Institute of  
Chemical Technology  
Dept. of Biochemistry  
Technická 3  
CZ-166 28 Prague 6  
tel +420 2 24 355 166  
fax +420 2 24 355 167  
irena.krumlova@vscht.cz

**Prof. Václav Pačes**  
Institute of  
Molecular Genetics  
Academy of Sciences  
Flemingovo 2  
CZ-16637 Prague  
tel +420 2 20 183 541  
fax +420 2 24 311 019  
vpaces@img.cas.cz

**DENMARK**

**Prof. Julio E. Celis**  
Institute of Cancer Biology  
and Danish Centre for  
Translational Breast Cancer  
Research  
Strandboulevarden 49  
DK-2100 Copenhagen Ø  
tel +45 3525 7363  
fax +45 3525 7375  
jec@cancer.dk

**Ms. Mette Müller**  
Danish Research Agency  
Artillerivej 88  
DK-2300 Copenhagen S  
tel +45 3544 6346  
fax +45 3257 3543  
mem@forsk.dk

**FINLAND**

**Dr. Arja Kallio**  
Research Council for  
Biosciences and Environment  
Academy of Finland  
Vilhonvuorenkatu 6  
FIN-00500 Helsinki  
tel +358 9 774 88336  
fax +358 9 774 88395  
arja.kallio@aka.fi

**Prof. Marja Makarow**  
P.O. Box 33  
University of Helsinki  
Yliopistokatu 4  
FIN-00014 Helsinki  
tel +358 9 191 21744  
fax +358 9 191 23008  
marja.makarow@helsinki.fi

**Prof. Eero Vuorio**  
University of Turku  
Kiinamylynkatu 10  
FIN-20014 Turku  
tel +358 2 333 6100  
fax +358 2 333 5011  
eero.vuorio@utu.fi

**FRANCE**

**Prof. Bernard Ehresmann**  
UPR 9002, CNRS  
Institute of Molecular and  
Cell Biology (IBMC)  
15 rue Descartes  
F-67084 Strasbourg Cédex  
tel +33 3 88 41 70 56  
fax +33 3 88 60 22 18  
bernard.ehresmann@ibmc.u-strasbg.fr

**Dr. Jean-Pierre Lafont**  
Research Directorate  
Ministry for Research  
1 rue Descartes  
F-75231 Paris Cédex 05  
tel +33 1 55 55 99 15  
fax +33 1 55 55 97 67  
jean-pierre.lafont@recherche.gouv.fr

**Dr. Myriam Nechad**  
Ministry for Foreign Affairs  
Dept. for Scientific  
Co-operation and Research  
DGCID/DCSU/ROP  
244, bd. Saint-Germain  
F-75303 Paris 07 SP  
tel +33 1 43 17 82 85  
fax +33 1 43 17 89 37  
myriam.nechad@diplomatie.gouv.fr

**GERMANY**

**Dr. Christian Alecke**  
Federal Ministry of Education  
and Research (BMBF)  
Referat 613  
Heinemannstrasse 2  
D-53175 Bonn  
tel +49 188 8 57 3659  
fax +49 188 8 57 83659  
christian.alecke@bmbf.bund.de

**Mr. Eckhart Curtius**  
Federal Ministry of Education  
and Research (BMBF)  
Referat 613  
Heinemannstrasse 2  
D-53175 Bonn  
tel +49 188 8 57 3254  
fax +49 188 8 57 8 3254  
eckhart.curtius@bmbf.bund.de

**Mr. Willy Hönemann**  
Federal Ministry of Education  
and Research (BMBF)  
Referat 613  
Heinemannstrasse 2  
D-53175 Bonn  
tel +49 188 8 57 3653  
fax +49 188 8 57 8 3653  
willy.hoenemann@bmbf.bund.de

**Prof. Reinhard Lührmann**  
Max Planck Institute for  
Biophysical Chemistry  
Cellular Biochemistry Dept.  
Am Faßberg 11  
D-37070 Göttingen  
tel +49 551 201 1405  
fax +49 551 201 1197  
reinhard.luehrmann@mpi-bpc.mpg.de

**GREECE**

**Prof. Theodore Fotsis**  
Laboratory of  
Biological Chemistry  
Faculty of Medicine  
University of Ioannina  
GR-45110 Ioannina  
tel +30 26510 97560  
fax +30 26510 97868  
thfotsis@cc.uoi.gr

**Prof. Charalambos Savakis**  
Faculty of Medicine  
University of Crete and  
Institute of Molecular Biology  
and Biotechnology  
FORTH, Vassilika Vouton  
GR-71110 Heraklion, Crete  
tel +30 2810 391114/391088  
fax +30 2810 391950  
savakis@imbb.forth.gr

**HUNGARY**

**Ms. Klara Papp**  
Hungarian Academy  
of Sciences  
Office for International  
Co-operation  
Nádor u. 7  
H-1051 Budapest  
tel +36 1 327 3000/2538  
fax +36 1 327 3000/2539  
kpapp@office.mta.hu

**Prof. László Patthy**  
Institute of Enzymology  
Biological Research Centre  
Karolina út 29  
H-1113 Budapest  
tel +36 1 209 3537  
fax +36 1 466 5465  
patthy@enzim.hu

**Dr. Janos Pusztai**

Hungarian Academy  
of Sciences  
Office for  
International Co-operation  
Nádor u. 7  
H-1051 Budapest  
tel +36 1 327 3000/2536  
fax +36 1 411 6370  
jpusztai@office.mta.hu

**ICELAND**

**Dr. Eiríkur Steingrímsson**  
Dept. of Biochemistry and  
Molecular Biology  
Faculty of Medicine  
University of Iceland  
Vatnsmyrarvegur 16  
IS-101 Reykjavík  
tel +354 525 4270  
fax +354 525 4886  
eirkurs@hi.is

**IRELAND**

**Dr. Lucy Cusack**  
Science and Technology  
Division  
Forfás  
Wilton Park House  
Wilton Place  
IRL-Dublin 2  
tel +353 1 607 3080  
fax +353 1 607 3260  
lucy.cusack@forfas.ie

**Ms. Helen Dixon**  
Office of  
Science and Technology  
Dept. of Enterprise,  
Trade and Employment  
Kildare Street  
IRL-Dublin 2  
tel +353 1 631 2236  
fax +353 1 631 2812  
helen\_dixon@entemp.ie

**ISRAEL**

**Prof. Marvin Edelman**  
Dept. of Plant Genetics  
Weizmann Institute  
IL-76100 Rehovot  
tel +972 8 934 3301/39  
fax +972 8 946 9124  
marvin.edelman@weizmann.ac.il

**Dr. Mahmoud Taya**  
Ministry of Science and  
Technology  
Life Sciences Division  
Haqiryia Hamizrahit, Bldg 3  
P.O. Box 49100  
IL-91490 Jerusalem  
tel +972 2 541 1126  
fax +972 2 532 2124  
mahmoud@most.gov.il

**ITALY**

**Dr. Aniello Izzo**  
Treasury Ministry  
State Budget Office – I.G.A.E.  
Uff. X  
Via XX Settembre no 97  
I-00187 Rome  
tel +39 06 476 13512  
fax +39 06 481 4724  
aniello.izzo@tesoro.it

**Prof. Glauco Tocchini-Valentini**  
IBC – Institute of  
Cell Biology, CNR  
Campus A. Buzzati-Traverso  
Via E. Ramarini 32  
I-00016 Monterotondo Scalo  
(RM)  
tel +39 06 9060317  
fax +39 06 90091261  
gtocchini@ibc.cnr.it



**THE NETHERLANDS**

**Ms. Louise Perbal**  
Ministry of Education,  
Culture and Science  
IPC 4100  
Rijnstraat 50  
NL-2515 XP Den Haag  
tel +31 70 412 3405  
fax +31 70 412 2525  
l.perbal@minocw.nl

**Prof. Peter J. Weisbeek**  
University of Utrecht  
Dept. of Molecular Genetics  
Padualaan 8  
NL-3584 CH Utrecht  
tel +31 30 253 3580  
fax +31 30 251 3655  
p.j.weisbeek@bio.uu.nl

**NORWAY**

**Dr. Berit Johne**  
Research Council of Norway  
P.O. Box 2700  
Stensberggata 26  
N-0131 Oslo  
tel +47 22 03 7422  
fax +47 22 03 7362  
bj@rcn.no

**Prof. Aurora Martinez**  
Dept. of Biomedicine  
University of Bergen  
Jonas Lies vei 91  
N-5009 Bergen  
tel +47 55 58 6427  
fax +47 55 58 6300  
aurora.martinez@ibmb.uib.no

**POLAND**

**Prof. Andrzej Jerzmanovski**  
Laboratory of  
Plant Molecular Biology  
Warsaw University  
Institute of  
Biochemistry and Biophysics  
Polish Academy of Sciences  
Pawinskiego 5a  
PL-02-106 Warsaw  
tel +48 22 659 6072/5704  
fax +48 22 658 4636  
andyj@ibb.waw.pl

**Ms. Maria Klimkiewicz**  
Ministry for Scientific  
Research and  
Information Technology  
Dept. of International  
Co-operation  
Wspolna 1/3  
PL-00-529 Warsaw  
tel +48 22 628 3289  
fax +48 22 628 3534  
maria.klimkiewicz@mni.gov.pl

**PORTUGAL**

**Ms. Maria Jose Almeida**  
Office for International  
Relations in Science  
and Higher Education  
(GRICES)  
Av. 5 de Outubro, 85, 5°  
P-1050-050 Lisbon  
tel +351 21 782 8300  
fax +351 21 797 1687  
m.j.almeida@grices.mces.pt

**Prof. Maria do Carmo-Fonseca**

University of Lisbon  
Institute of Molecular  
Medicine  
Av. Prof. Egas Moniz  
P-1649-028 Lisbon Codes  
tel +351 21 799 94111  
fax +351 21 799 9412  
carmo.fonseca@fm.ul.pt

**Dr. Claudio Sunkel**  
Institute for Molecular and  
Cell Biology (IBMC)  
Molecular Genetics  
Laboratory  
Rua do Campo Alegre  
P-4150 Porto  
tel +351 2 607 9157  
fax +351 2 609 9157  
cesunkel@ibmc.up.pt

**SLOVENIA**

**Prof. Franc Gubensek**  
Dept. of Biochemistry  
J. Stefan Institute  
Jamova 39  
SI-1000 Ljubljana  
tel +386 1 477 3250  
fax +386 1 257 3594  
franc.gubensek@ijs.si

**Ms. Radojka Vercko**  
Ministry of Education,  
Science and Sport  
Office of Science  
Trg OF 13  
SI-1000 Ljubljana  
tel +386 1 478 4683  
fax +386 1 478 4719/21  
radojka.vercko@gov.si

**SPAIN**

**Ms. Cristina Espa Felip**  
International Organisations  
and Programmes  
Ministry of Education and  
Science  
José Abascal 4.2°  
E-28003 Madrid  
tel +34 91 594 8618  
fax +34 91 594 8643  
cristina.espa@mcyt.es

**Prof. Esteban Manrique Reol**  
International Organisations  
and Programmes  
Ministry of Education and  
Science  
José Abascal 4.2°  
E-28003 Madrid  
tel +34 91 594 8608  
fax +34 91 594 8643  
esteban.manrique@mcyt.es

**Prof. Juan Modolell**  
Centre of Molecular Biology  
(CBM)  
Universidad Autónoma  
Cantoblanco  
E-28049 Madrid  
tel +34 91 497 5072  
fax +34 91 497 5073  
jmodol@cbm.uam.es

**SWEDEN**

**Dr. Brita Beije**  
Swedish Research Council  
Natural and Engineering  
Sciences  
Regeringsgatan 56  
S-103 78 Stockholm  
tel +46 8 546 44 249  
fax +46 8 546 44 144  
brita.beije@vr.se

**Prof. Marianne Sommarin**  
Dept. of Plant Biochemistry  
Lund University  
Chemical Center  
Getingevägen 60  
S-222 41 Lund  
tel +46 46 222 77 92  
fax +46 46 222 41 16  
marianne.sommarin@plantbio.lu.se

**SWITZERLAND**

**Dr. Isabella Beretta**  
State Secretariat for  
Education and Research  
Multilateral Research  
Co-operation  
Hallwylstrasse 4  
CH-3003 Bern  
tel +41 31 322 8417  
fax +41 31 322 7854  
isabella.beretta@sbf.admin.ch

**TURKEY**

**Prof. M. Beyazit Cirakoglu**  
TÜBİTAK Marmara Research  
Centre  
Genetic Engineering and  
Biotechnology Research  
Institute  
TR-41470 Gebze Kocaeli  
tel +90 262 641 2300/4000/ 4001  
fax +90 262 646 3929  
bcirak@rigeb.gov.tr

**UNITED KINGDOM**

**Dr. Diana Dunstan**  
Director of Research  
Management  
Medical Research Council  
20 Park Crescent  
UK-London W1B 1AL  
tel +44 207 636 5422  
fax +44 207 637 6021  
diana.dunstan@headoffice.mrc.ac.uk

**Mr. Nigel Watts**  
MRC Head Office  
20 Park Crescent  
UK-London W1B 1AL  
tel +44 20 7670 6292  
fax +44 20 75806198  
nigel.watts@headoffice.mrc.ac.uk

**Dr. Douglas Yarrow**  
North Star Avenue  
Polaris House  
UK-Swindon SN2 1UH  
tel +44 1793 414651  
fax +44 1793 413203  
doug.yarrow@bbsrc.ac.uk

**council members 2004**

years(s) elected	name	country
2001, 2004	Erik Boye	N-Oslo
2003	Margaret Buckingham	F-Paris
2000, 2002	Antonio Coutinho (Vice-Chair)	P-Oeiras
2000, 2003	Susan Gasser (Chair)	CH-Geneva
2002	Ingrid Grummt	D-Heidelberg
2004	Tim Hunt	UK-London
2002	Carlos Martinez-A.	E-Madrid
1999, 2002	Cesare Montecucco	I-Padova
2001, 2004	Sean Munro	UK-Cambridge
2000, 2003	Paul Nurse	USA-New York
1999, 2002	André Sentenac	F-Gif-sur-Yvette
2000, 2003	Giora Simchen	IL-Jerusalem
2004	Kai Simons	D-Dresden
2004	Gunnar von Heijne	S-Stockholm
2003	Maciej Zylicz	PL-Warsaw

**ex officio**

Christiane Nüsslein-Volhard	Secretary General of EMBO
Marja Makarow	President of EMBC
Frank Gannon	Secretary General of EMBC
Fotis Kafatos	Director General of EMBL
Carl-Henrik Heldin	Chair of EMBL SAC
Daniela Rhodes	Chair of EMBO Fellowship Committee
Pascale Cossart	Chair of EMBO Course Committee
Cesare Montecucco	Chair of Membership & Publication Committee
Roberto Sitia	Chair of Science & Society Committee
Jean-David Rochaix	Chair of EMBO Young Investigator Programme Committee
Glauco Tocchini-Valentini	Chair of Electronic Information Committee

**EMBO committee members & auditors 2004 (year elected)**

course committee	fellowship committee (cont.)	young investigator committee
2003 Pico Caroni	2004 Leszek Kaczmarek	2004 Martino Bolognesi
2004 Miquel Coll	2003 Angela Krämer	2000 Doreen Cantrell
2000 Pascale Cossart (Chair)	2004 Wilhelm Krek	2003 S. Dusko Ehrlich
2002 Jonathan Howard	2004 Montserrat Pages	2003 Jiri Forejt
2002 Philip Ingham	2004 Anthony Pugsley	2002 Regine Kahmann
2004 Howard Jacobs	2000 Daniela Rhodes (Chair)	2004 Hans Krokan
2003 Batsheva Kerem	2001 Varda Rotter	2004 Doron Lancet
2001 Anna Tramontano	2004 Angela Santoni	2000 Iain Mattaj
2001 Joel Vandekerckhove		2003 Gines Morata
2003 Peter Weisbeek		2000 Jean-David Rochaix (Chair)
	<b>membership &amp; publication committee</b>	
	2003 Andres Aguilera	<i>EMBO members who act as auditors:</i>
	2002 Ruth Arnon	<b>internal auditors</b>
	2004 Thierry Boon	Diter von Wettstein
	2003 Ari Helenius	David J. McConnell
	2004 Andrzej Legocki	
	2002 Maria Leptin	<b>external auditors</b>
	1999 Cesare Montecucco (Chair)	Isabel Cabaço Antunes
	2003 Dino Moras	Maria da Luz Faria
	2002 Hans Wolf-Watz	
	<b>electronic information committee</b>	
	2001 Graham Cameron	
	2000 Sigrun Eckelmann	
	2002 Gerard Giroud	
	2000 Jacques Haiech	
	2000 Carlos Martinez-Alonso	
	2002 Annette Thomas	
	2000 Glauco Tocchini-Valentini (Chair)	
	2003 Eric Westhof	
<b>fellowship committee</b>		
2004 Peter Becker		
2000 Francesco Blasi		
2001 August Boeck		
2002 John Diffley		
2004 Bauke Dijkstra		
2004 Nicolas Glaichenhaus		
2000 Crisanto Gutierrez		

**council members 2005**

year(s) elected	name	country
2005	Anton Berns	NL-Amsterdam
2001, 2004	Erik Boye (Vice-Chair)	N-Oslo
2003	Margaret Buckingham	F-Paris
2005	Roberto di Lauro	I-Napoli
2000, 2003	Susan Gasser (Chair)	CH-Basel
2002, 2005	Ingrid Grummt	D-Heidelberg
2004	Tim Hunt	UK-London
2005	Daniel Louvard	F-Paris
2002, 2005	Carlos Martinez-A.	E-Madrid
2001, 2004	Sean Munro	UK-Cambridge
2000, 2003	Paul Nurse	USA-New York
2000, 2003	Giora Simchen	IL-Jerusalem
2004	Kai Simons	D-Dresden
2004	Gunnar von Heijne	S-Stockholm
2003	Maciej Zylicz	PL-Warsaw

**ex officio**

Christiane Nüsslein-Volhard	Secretary General of EMBO
Marja Makarow	President of EMBC
Frank Gannon	Secretary General of EMBC
Fotis Kafatos/Iain Mattaj	Director General of EMBL
Ronald Plasterk	Chair of EMBL SAC
Daniela Rhodes	Chair of EMBO Fellowship Committee
Pico Caroni	Chair of EMBO Course Committee
Maria Leptin	Chair of Membership Committee
Roberto Sitia	Chair of Science & Society Committee
Regine Kahmann	Chair of EMBO Young Investigator Programme Committee
Eric Westhof	Chair of Publications & Electronic Information Committee

**EMBO committee members & auditors 2005 (year elected)**

course committee	science & society committee	membership committee
2003 Pico Caroni (Chair)	2003 Lauri Aaltonen	2005 Ueli Aebi
2004 Miquel Coll	2005 Andrea Barta	2003 Andres Aguilera
2002 Jonathan Howard	2005 Wendy Bickmore	2002 Ruth Arnon
2002 Philip Ingham	2004 Dénes Dudits	2005 Carl-Henrik Heldin
2005 Dirk Inzé	2004 Benjamin Geiger	2004 Andrzej Legocki
2004 Howard Jacobs	2005 Ernst Hafen	2002 Maria Leptin (Chair)
2003 Batsheva Kerem	2003 Matthias Hentze	2005 Antonio Malgaroli
2005 Maria Persico	2001 Mary Osborn	2005 Paolo Sassone-Corsi
2005 Anne Ridley	2002 Roberto Sitia (Chair)	2005 Veronica van Heyningen
2005 Philippe Sansonetti	2005 Claudio Sunkel	2002 Hans Wolf-Watz
fellowship committee	young investigator committee	publications & electronic information committee
2005 Robin Allshire	2005 Michael Bevan	2004 Thierry Boon
2004 Peter Becker	2005 Thomas Boehm	2001 Graham Cameron
2002 John Diffley	2004 Martino Bolognesi	2005 Gianni Cesareni
2004 Bauke Dijkstra	2003 S. Dusko Ehrlich	2003 Ari Helenius
2004 Nicolas Glaichenhaus	2003 Jiri Forejt	2003 Dino Moras
2004 Leszek Kaczmarek	2005 Elisa Izaurrealde	2005 Erich Nigg
2005 Jürgen Knoblich	2002 Regine Kahmann (Chair)	2005 Václav Pačes
2003 Angela Krämer	2004 Hans Krokan	2005 Leena Peltonen
2004 Wilhelm Krek	2004 Doron Lancet	2003 Eric Westhof (Chair)
2004 Montserrat Pages	2003 Gines Morata	
2004 Anthony Pugsley		
2000 Daniela Rhodes (Chair)		
2001 Varda Rotter		
2004 Angela Santoni		






*EMBO members  
who act as auditors:*  
**internal auditors**  
Diter von Wettstein  
David J. McConnell

**external auditors**  
Isabel Cabaço Antunes  
Maria da Luz Faria

<b>Siv G.E. Andersson</b>		Dept. of Molecular Evolution Evolutionary Biology Center Uppsala, Sweden  Genome structure Microbiology
<b>Yehudit Bergman</b>		Hubert Humphrey Center for Experimental Medicine and Cancer Research Hebrew University Medical School Jerusalem, Israel  Developmental biology Immunology
<b>Christer Betsholtz</b>		Laboratory of Vascular Biology Dept. of Medical Biochemistry and Biophysics Karolinska Institute Stockholm, Sweden  Developmental biology Cell biology
<b>Michael Brunner</b>		Biochemie-Zentrum Heidelberg Heidelberg, Germany  Cell biology Genetics
<b>Graham Cameron</b>		European Bioinformatics Institute EMBL Outstation Cambridge, United Kingdom  Structural biology Genome structure






<b>Bart de Strooper</b>		Laboratory for Neuronal Cell Biology and Gene Transfer, Center for Human Genetics Leuven, Belgium  Neurobiology Cell biology
<b>Hugues De Thé</b>		CNRS, UMR 7151 Hôpital St. Louis Paris, France  Cancer biology Cell biology
<b>Ivan Dikic</b>		Institute of Biochemistry II Goethe University Medical School Frankfurt, Germany  Cancer biology Cell biology
<b>Jeff Errington</b>		Sir William Dunn School of Pathology University of Oxford Oxford, United Kingdom  Cell biology Microbiology
<b>Marco Foiani</b>		F.I.R.C. Institute of Molecular Oncology Milan, Italy  Cancer biology Genome structure



<b>Hans Hengartner</b>		Institute of Experimental Immunology University Hospital Zurich Zurich, Switzerland  Virology Immunology
<b>Jonathon Howard</b>		Max-Planck-Institute of Molecular Cell Biology and Genetics Dresden, Germany  Structural biology Cell biology
<b>Laurence Daniel Hurst</b>		Dept. of Biology and Biochemistry University of Bath Bath, United Kingdom  Genome structure Genetics
<b>Mariusz Jaskólski</b>		Center for Biocrystallographic Research Polish Academy of Sciences Poland  Structural biology
<b>Klas Kärre</b>		Microbiology and Tumor Biology Center Karolinska Institute Stockholm, Sweden  Cancer biology Immunology

<b>Jan Löwe</b>		Laboratory of Molecular Biology Medical Research Council Cambridge, United Kingdom  Structural biology Cell biology
<b>Paolo Lusso</b>		Laboratory of Human Virology DIBIT-San Raffaele Scientific Institute Milan, Italy  Virology Immunology
<b>Andrew J. McMichael</b>		Weatherall Institute of Molecular Medicine John Radcliffe Hospital Oxford, United Kingdom  Virology Immunology
<b>Abraham Minsky</b>		Dept. of Organic Chemistry Weizmann Institute of Science Rehovot, Israel  Structural biology Microbiology
<b>Sergio Moreno</b>		Cancer Research Institute-CSIC Salamanca University Salamanca, Spain  Cell biology Genetics

<b>Klaus-Armin Nave</b>		Dept. of Neurogenetics Max-Planck-Institute of Experimental Medicine Göttingen, Germany  Neurobiology
<b>Alain Nicolas</b>		Institute Curie CNRS, UMR 7147 Paris, France  Genome structure Genetics
<b>Thomas Nyström</b>		Dept. of Cell and Molecular Biology Göteborg University Göteborg, Sweden  Cell biology Microbiology
<b>Stephen G. Oliver</b>		Faculty of Life Sciences University of Manchester Manchester, United Kingdom  Genome structure Genetics
<b>Hans-Georg Rammensee</b>		Department of Immunology University of Tübingen Tübingen, Germany  Cell biology Immunology

<b>Marina V. Rodnina</b>		Institute of Physical Biochemistry Witten/Herdecke University Witten, Germany  Structural biology Microbiology
<b>Pernille Rørth</b>		Developmental Biology Programme EMBL Heidelberg, Germany  Developmental biology Cell biology
<b>Titia K. Sixma</b>		Division of Molecular Carcinogenesis Netherlands Cancer Institute Amsterdam, Netherlands  Cancer biology Structural biology
<b>Kirsten Skarstad</b>		Dept. of Cell Biology Institute for Cancer Research Oslo, Norway  Cell biology Microbiology
<b>Austin G. Smith</b>		Institute for Stem Cell Research University of Edinburgh Edinburgh, United Kingdom  Developmental biology Cell biology

<b>Eiríkur Steingrímsson</b>		Dept. of Biochemistry and Molecular Biology University of Iceland Reykjavik, Iceland  Developmental biology Genetics
<b>Iannis Talianidis</b>		Institute of Molecular Biology and Biotechnology Foundation for Research and Technology Crete, Greece  Cell biology
<b>Dimitris Thanos</b>		Institute of Molecular Biology and Genetics Biomedical Sciences Research Center Athens, Greece  Cell biology Genome structure
<b>Juan Valcárcel</b>		Gene Regulation Programme Centre de Regulació Genòmica Barcelona, Spain  Cancer biology Genome structure
<b>Maarten van Lohuizen</b>		Division of Molecular Genetics Netherlands Cancer Institute Amsterdam, Netherlands  Developmental biology Cancer biology

<b>Ashok Venkitaraman</b>		Cancer Research UK Dept. of Oncology and MRC Cancer Cell Unit Cambridge, United Kingdom  Cancer biology Cell biology
<b>Karen Vousden</b>		Beatson Institute for Cancer Research Glasgow, United Kingdom  Cancer biology Cell biology
<b>Nancy Kleckner</b>		Dept. of Molecular and Cellular Biology Harvard University Cambridge, MA, United States  Genetics Microbiology
<b>Dieter Söll</b>		Dept. of Molecular Biophysics and Biochemistry Yale University New Haven, CT, United States  Genome structure Microbiology
<b>Peter Walter</b>		Howard Hughes Medical Institute Dept. of Biochemistry and Biophysics University of California San Francisco, CA, United States  Structural biology Cell biology

associate members

**advisory editorial board  
2004 for *The EMBO Journal*  
and *EMBO reports***

A	Adriano Aguzzi Kari Alitalo Geneviève Almouzni Frances M. Ashcroft
B	Andrea Ballabio Mariano Barbacid Yves-Alain Barde Jiri Bartek David C. Baulcombe Peter B. Becker Jean D. Beggs Anton J. Berns Michael J. Berridge Heinrich Betz Mariann Bienz August Böck Johannes L. Bos Chris Bowler Erik Boye Bernd Bukau Meinrad Busslinger
C	Michel Caboche Iain D. Campbell Doreen A. Cantrell Gennaro Ciliberto Pascale Cossart

D	Pietro V. De Camilli Bauke W. Dijkstra Marcel Dorée Giulio Draetta Raymond A. Dwek
E	Gerard I. Evan
F	Alain Fischer
G	Henrik Garoff Susan M. Gasser Benjamin Geiger Frank G. Grosveld Jean Gruenberg Ingrid Grummt
H	Ernst Hafen Alan Hall F. Ulrich Hartl Carl-Henrik Heldin Ari Helenius Matthias W. Hentze Christopher F. Higgins Jonathan Hodgkin Jan H.J. Hoeijmakers Barbara Hohn Tim Hunt Tony Hunter Nancy E. Hynes
I	Philip W. Ingham

J	Herbert Jäckle Richard J. Jackson Stephen P. Jackson Reinhard Jahn Stefan Jentsch Thomas J. Jentsch Josef Jiricny
K	Regine Kahmann Eric Karsenti Rolf Kemler Guido Kroemer Robb Krumlauf Werner Kühlbrandt
L	Michel Lazdunski Tomas Lindahl Reinhard Lührmann
M	Bernard Malissen Christopher J. Marshall Carlos Martínez-A. Marjori A. Matzke Edwin Milgrom Cesare Montecucco Dino Moras Jorge Moscat Sean Munro
N	Kiyoshi Nagai Michael S. Neuberger Walter Neupert

O	Moshe Oren Michael J. Owen
P	Peter J. Parker Hugh R.B. Pelham Nikolaus Pfanner Olaf Pongs
R	Martin C. Raff Tom A. Rapoport Daniela Rhodes Howard Riezman Jean-David Rochaix Bernard C. Rossier
S	Helen R. Saibil Philippe J. Sansonetti Georg E. Schulz Bertrand Séraphin David J. Sherratt Ben-Zion Shilo Roberto Sitia James C. Smith Daniel St. Johnston
T	David Tollervey Richard Treisman
W	Stephen C. West Alfred Wittinghofer Dieter H. Wolf Hans Wolf-Watz
Y	Mitsuhiro Yanagida
Z	Marino Zerial Maciej Zylicz



country	name	nationality	host laboratory	home laboratory	research interest
<b>Austria</b>	Hetzer-Egger, Claudia	Austrian	Salk Institute of Biological Studies, La Jolla, USA	Salk Institute of Biological Studies, La Jolla, USA	DNA damage repair: Analysis of the functional role of the MRE11 complex during Adenovirus infection
	Köcher, Thomas	Austrian	Uppsala University, Sweden	Uppsala University, Sweden	Development of techniques for the complete characterisation of proteins
	Mamnun, Yasmine Melanie	Austrian	Cancer Research UK, London Research Institute, UK	Cancer Research UK, London Research Institute, UK	Characterisation of the substrate specificity and the cellular function of the SCF (Pof3)
<b>Belgium</b>	Ulens, Chris	Belgian	NKI, Amsterdam, The Netherlands	HHMI, Columbia University, New York, USA	Structural and functional basis for coupling of ligand activation to channel opening in the nicotinic acetylcholine receptor
<b>Croatia</b>	Ahel, Ivan	Croatian	London Research Institute, South Mimms, UK	Rudjer Boskovic Institute, Zagreb, Croatia	Identification of novel factors involved in non-homologous end joining in human cells
	Grskovic, Marica	Croatian	UCSF, San Francisco, USA	EMBL, Heidelberg, Germany	Role of Notch Signalling in pluripotent stem cells of the mammalian germline
	Zagrovic, Bojan	Croatian	ETH Hönggerberg, Zurich, Switzerland	ETH Hönggerberg, Zurich, Switzerland	Computational studies of protein dynamics and conformational averaging
<b>Czech Republic</b>	Krejci, Alena	Czech	University of Cambridge, UK	University of Cambridge, UK	Investigating transcriptional complexes and epigenetic changes at Notch target gene promoters
<b>Denmark</b>	Brodersen, Peter	Danish	Institut de la Biologie Moléculaire des Plantes du CNRS, Strasbourg, France	Institute of Molecular Biology, Copenhagen, Denmark	Cross-kingdom investigation of the mammalian retroviral silencing suppressor Tas to identify conserved RNA silencing components
	Jensen, Kasper	Danish	Yale University, New Haven, USA	Chemical Centre, Lund, Sweden	QM/MM studies of solution-phase and enzymatic reactions
	Lindorff-Larsen, Kresten	Danish	Institute of Molecular Biology, Copenhagen, Denmark	University of Cambridge, UK	Structure and dynamics in native and non-native states of proteins
<b>Finland</b>	Niittyla, Totte	Finnish	Carnegie Institution of Washington, Palo Alto, USA	John Innes Centre, Norwich, UK	Carbon partitioning and transport in plants

name	nationality	host laboratory	home laboratory	research interest	country
Behm-Ansmant, Isabelle	French	EMBL, Heidelberg, Germany	EMBL, Heidelberg, Germany	Mechanisms of nonsense mediated mRNA decay (NMD) in metazoans	<b>France</b>
Bertrand, Vincent	French	Columbia University, New York, USA	Institute of Developmental Biology, Marseille, France	Specification of pan-neuronal and subtype-specific features of a single interneuron in <i>C. elegans</i>	
Bleuyard, Jean-Yves	French	Cancer Research UK, South Mimms, UK	University Blaise Pascal, Aubiere, France	Analysis of Holliday junction processing in DNA repair-deficient cells	
Bossard, Carine	French	UCSD, La Jolla, USA	UCSD, La Jolla, USA	Regulation of the vesiculation process from Golgi membranes	
Capron, Arnaud	French	UC-Davis, USA	UC-Davis, USA	Characterisation of a gene required for normal fertilisation in <i>Arabidopsis</i>	
Chapouton, Prisca	French	IDG, Neuherberg, Germany	IDG, Neuherberg, Germany	Characterisation of a progenitor pool at the adult zebrafish midbrain-hindbrain boundary	
Collin, Ludovic	French	MRC, London, UK	IGBMC, Strasbourg, France	Implications of Rho GTPases in neuronal migration	
Colombani, Julien	French	Cancer Research UK, London Research Institute, UK	ISDBC, Nice, France	Developmental control of apoptosis and cell cycle exit by <i>salvador</i> , <i>hippo</i> and <i>warts</i>	
Conte, Caroline	French	INSERM U589, Toulouse, France	F. Hoffmann-La Roche, Basel, Switzerland	Role of IRES in translation control during angiogenesis	
Darios, Frédéric	French	MRC, Cambridge, UK	INSERM, Paris, France	Role of calcium in exocytosis mechanisms	
Dejardin, Jerome	French	Massachusetts General Hospital, Boston, USA	Institute of Human Genetics, CNRS UPR1142, Montpellier, France	Characterisation of native chromatin fragments	
Dos Reis, Suzana	French	Biomedical Institute, Uppsala, Sweden	Laboratory of Molecular Genetics, Bordeaux, France	Role of ribosome in folding of nascent peptide chains	
Fievet, Bruno	French	University of Cambridge, UK	Curie Institute, CNRS UMR144, Paris, France	Role of <i>C. elegans</i> protein phosphatase 2A in the establishment of embryonic cell polarity	
Gadéa, Gilles	French	Institute of Cancer Research, London, UK	CRBM, CNRS, Montpellier, France	Analysis of Rho GTPase signalling pathways in tumour cell movement	
Gompel, Nicolas	French	University of Cambridge, UK	HHMI, Madison, USA	The evolution of neuronal connectivity in the fly sensory system	
Hachet, Olivier	French	ISREC, Epalinges, Switzerland	EMBL, Heidelberg, Germany	Investigating crosstalk between the septation initiation network, the contractile actomyosin ring and polarized growth in fission yeast	
Hertzog, Maud	French	FIRC Institute of Molecular Oncology, Milan, Italy	LEBS, Gif-sur-Yvette, France	Regulation of actin dynamics by Eps8 proteins	
Jamain, Stephane	French	MPI for Experimental Medicine, Göttingen, Germany	Pasteur Institute, Paris, France	Study of neuroligins in mice as animal model for autism	

country	name	nationality	host laboratory	home laboratory	research interest
France cont.	Jeanneteau, Freddy	French	Skirball Institute of Biomolecular Medicine, New York, USA	Centre Paul Broca, INSERM U573, Paris, France	Distinctive features of Trk neurotrophin transactivation by G protein-coupled receptors
	Joron, Mathieu	French	Institute of Biology, Leiden, The Netherlands	University College London, UK	Comparative mapping of mimicry genes in <i>Heliconius</i> butterflies
	Journet, Laure	French	ESBS, Illkirch, France	Biozentrum, University of Basel, Switzerland	Study of an ABC transporter involved in iron uptake in <i>Pseudomonas aeruginosa</i>
	Kniazeff, Julie	French	The Panum Institute, Copenhagen, Denmark	Laboratory of Functional Genomics, Montpellier, France	Bacterial homologues of mammalian cocaine-sensitive neurotransmitter transporters: Structural and functional dynamics
	Le Clainche, Christophe	French	University of California, Berkeley, USA	University of California, Berkeley, USA	Molecular links between the actin cytoskeleton and the endocytic machinery
	Maro, Géraldine	French	Stanford University, USA	Ecole Normale Supérieure, Paris, France	Cellular and molecular analysis of the mechanisms involved in hierarchical choices in synaptic specificity
	Marthiens, Veronique	French	University of Cambridge, UK	Institut du Fer à Moulin, Paris, France	Roles of cadherin-dependent cell-cell contacts in the control of neural stem cell behaviour
	Martinic, Marianne	French	Joslin Diabetes Center, Boston, USA	Joslin Diabetes Center, Boston, USA	Ectopic <i>aire</i> -expression and its role in T-cell tolerance
	Ménasché, Gaël	French	Abranson Family Cancer Research Institute, Philadelphia, USA	INSERM U429, Paris, France	<i>In vivo</i> structure/function relationships of the adapter protein: ADAP
	Menet, Jerome	French	HHMI, Waltham, USA	HHMI, Waltham, USA	A novel genetic screen to identify new components of the <i>Drosophila</i> circadian clock
	Michallet, Marie-Cecile	French	University of Lausanne, Epalinges, Switzerland	IFR128 BioSciences Lyon-Gerland, France	Study of the molecular connections between caspase-8 and lymphocyte activation
	Morey, Celine	French	Western General Hospital, Edinburgh, UK	Pasteur Institute, Paris, France	Nuclear reorganisation of Hox clusters upon activation in ES cells and in mouse embryos
	Pelte, Nadège	French	DKFZ, Heidelberg, Germany	IBMC, Strasbourg, France	Search for new intracellular components in the Toll pathway and their involvement in innate immune responses in <i>Drosophila</i>
	Pons, Véronique	French	University of Geneva, Switzerland	University of Geneva, Switzerland	Mechanisms of early to late endosome transport. Role of sorting nexins
	Reymond, Nicolas	French	Ludwig Institute for Cancer Research, London, UK	Cancer and Immunology Institute of Marseille, INSERM U119, France	Molecular basis for tumour cell migration across the endothelial barrier

name	nationality	host laboratory	home laboratory	research interest	country
Ripaud, Leslie	French	MPI for Biochemistry, Martinsried, Germany	Cellular Genetics and Biochemistry Institute, Bordeaux, France	Regulation of polyglutamine aggregation in a yeast model of Huntington's Disease: Influence of ageing and screen for new modulators	
Roux, Aurélien	French	Yale School of Medicine, New Haven, USA	Institut Curie, Paris, France	Proteinaceous and lipidic minimal requirements for membrane fission <i>in vitro</i> and <i>in vivo</i>	
Roze, Denis	French	Institute of Cell, Animal and Population Biology, Edinburgh, UK	Research Institute on Development, Montpellier, France	Genomic architecture and evolution in structured populations	
Salinas, Sara	French	Cancer Research UK, London Research Institute, UK	IGMM, Montpellier, France	Role of lipid microdomains in sorting and retrograde transport in spinal cord motor neurons	
Sauzeau, Vincent	French	Cancer Research Institute, Salamanca, Spain	Thorax Institute, INSERM U533, Nantes, France	Identification of physiological and pathophysiological roles of Vav proteins in the cardiovascular system	
Seitz, Hervé	French	University of Massachusetts Medical School, Worcester, USA	Institute of Functional Exploration of Genomes, Toulouse, France	Biochemical and biophysical analyses of the RNAi enzyme complex assembly and mode of action	
Terrillon, Sonia	French	HHMI – UCSD, La Jolla, USA	HHMI – UCSD, La Jolla, USA	Microcompartmentation of signalling from G protein-coupled receptors	
Thore, Stephane	French	Institute for Molecular Biology and Biophysics, Zurich, Switzerland	EMBL, Heidelberg, Germany	Crystallographic studies of riboswitches: RNA elements that regulate gene expression.	
Tintignac, Lionel	French	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	The PKB/Akt and DNA-PK connection in cellular responses to DNA damage	
Tournier, Alexander	French	Cancer Research UK, London, UK	Interdisciplinary Center for Scientific Computing (IWR), Heidelberg, Germany	Computer simulations of size control mechanisms during the cell cycle of <i>S. pombe</i>	
van den Abeele, Fabien	French	Campus Gasthuisberg, Leuven, Belgium	University of Lille, Villeneuve d'Ascq, France	Functional analysis of TRPM8, a new target in prostate cancer	
Vermot, Julien	French	California Institute of Technology, Pasadena, USA	Institute of Genetics and Molecular Biology, Illkirch, France	Studying FGF receptor signalling during limb morphogenesis	
Yart, Armelle	French	ETH Honggerberg, Zurich, Switzerland	ETH Honggerberg, Zurich, Switzerland	Functional analysis of URI, a novel component of the TOR signalling pathway	
Zipfel, Cyril	French	John Innes Centre, Norwich, UK	University of Basel, Switzerland	Deciphering receptor-like protein (RLP) function(s) in plant innate immunity	

EMBO long-term fellowship awards 2004

country	name	nationality	host laboratory	home laboratory	research interest
Germany	Adryan, Boris	German	MRC, Cambridge, UK	MPI for Biophysical Chemistry, Göttingen, Germany	The dynamics and evolution of <i>Drosophila</i> transcription factors and their regulatory interactions
	Alberts, Philipp	German	Yale University School of Medicine, New Haven, USA	Institute du Fer à Moulin, Paris, France	<i>In vitro</i> and <i>in vivo</i> analysis of retrograde MHC class II trafficking in dendritic cells
	Dietrich, Lars	German	California Institute of Technology, Pasadena, USA	University of Heidelberg, Germany	Assembly of the iron reducing machinery in <i>Shewanella oneidensis</i>
	Eisner, Gottfried	German	Biozentrum, University of Basel, Switzerland	University of Freiburg, Germany	Molecular interactions in type III secretion
	Gatfield, David	German	Science III, University of Geneva, Switzerland	EMBL, Heidelberg, Germany	Molecular and functional analysis of period and cryptochrome complexes in the mammalian circadian clock
	Gille, Andreas	German	Institute of Pharmacology, Heidelberg, Germany	Institute of Pharmacology, Heidelberg, Germany	Characterisation of the nicotinic acid receptor: Desensitisation mechanisms and endogenous ligand search
	Hartmann, Britta	German	ICREA Centre of Genomic Regulation (CGR), Barcelona, Spain	Biozentrum, Basel, Switzerland	Signal-mediated alternative splicing in <i>Drosophila</i>
	Hornig, Nadine	German	IGB-CNR, Naples, Italy	Cancer Research UK, London, UK	Epigenome and RNAi
	Krueger, Marcus	German	CEBI, University of Southern Denmark – Odense University, Denmark	Institute of Physiological Chemistry, Halle/Saale, Germany	Insulin-induced changes in the phosphorylation pattern of the proteome
	Kurz, Thimo	German	Institute of Biochemistry, Zurich, Switzerland	Institute of Biochemistry, Zurich, Switzerland	Regulation of cullin-based E3 ligases by the ubiquitin-like protein Nedd8/Rub1p
	Layer, Gunhild	German	Biological Redox Centre, Grenoble, France	Institute of Microbiology, Braunschweig, Germany	Biosynthesis of iron-sulfur clusters in proteins: Biochemical and structural characterisation of the scaffold proteins
	Nottrott, Stephanie	German	University of Massachusetts Medical School, Worcester, USA	University of Massachusetts Medical School, Worcester, USA	Control of CPEB mRNA translation in neurons by microRNAs
	Probst, Hans Christian	German	MRC, Cambridge, UK	Institute of Experimental Immunology, Zurich, Switzerland	Determinants of target specificity of cytidine deaminases
	Reinhard, Constanze	German	Human Genetics/Laboratory for Neurobiology and Gene Transfer, Leuven, Belgium	BZH, Heidelberg, Germany	Identification and characterisation of the sAPP receptor(s)
	Schenck, Annette	German	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	IGBMC, Strasbourg, France	Signalling from the endocytic platform: Dissecting function of APPL proteins and their associated signalling pathways in vertebrate development

name	nationality	host laboratory	home laboratory	research interest	country
Schneider, Claudia	German	University of Edinburgh, UK	MPI of Biophysical Chemistry, Göttingen, Germany	Analyses of the exosome and Rrp6p complexes in <i>S. cerevisiae</i>	
Siefritz, Franka	German	UMR Plant Molecular Physiology and Biochemistry, Montpellier, France	Institute of Botany, Darmstadt, Germany	Novel molecular and functional aspects of membrane protein methylation – the model of plant aquaporins	
Stucke, Volker Matthias	German	University College London, UK	MPI for Biochemistry, Martinsried, Germany	Regulation of cell adhesion, polarity and proliferation in mammalian epithelial cells by proteins of the crumbs and discs large group	
Ternes, Philipp	German	Utrecht University, The Netherlands	University of Hamburg, Germany	Functional analysis of a novel family of sphingomyelin synthase-related proteins	
van der Laan, Martin	German	University of Freiburg, Germany	University of Groningen, The Netherlands	Functional reconstitution and characterisation of the mitochondrial presequence protein translocase (TIM23/PAM Complex)	
Werner, Thomas	German	University of Wisconsin, Madison, USA	Umeå Centre for Molecular Pathogenesis, Umeå, Sweden	Evolution of melanin patterning in <i>Drosophila</i> wings	
Wolkers, Monika	German	La Jolla Institute for Allergy and Immunology, San Diego, USA	Netherlands Cancer Institute, Amsterdam, The Netherlands	Mechanisms of CD4+ T cell help for cytotoxic CD8+ T cell	
Boutla, Alexandra	Greek	EMBL, Heidelberg, Germany	Institute of Molecular Biology & Biotechnology, Heraklion, Crete, Greece	Expression and function of the microRNA 2/13 gene family	Greece
Eystathioy, Theophany	Greek	CMU, Switzerland	University of Calgary, Alberta, Canada	Regulation of CIITA and MHC class II expression in thymic epithelial cells	
Hatzis, Pantelis	Greek	Royal Dutch Academy of Sciences, Utrecht, The Netherlands	IMBB, FORTH, Greece	Deciphering the molecular mechanisms through which the tumour suppressor LKB1 controls cellular polarity	
Topalidou, Irini	Greek	Columbia University, New York, USA	IMBB, FORTH, Greece	Deciphering gene regulatory pathways in the mechanosensory system in <i>C. elegans</i>	
Tzakos, Andreas	Greek	MRC, Cambridge, UK	University of Ioannina, Greece	Structural and biochemical studies of brain specific non-messenger RNAs and their interaction with the translational machinery	
Vrontou, Sophia	Greek	California Institute of Technology, Pasadena, USA	IMBB, FORTH, Greece	Neural circuitry of nociception in the skin and viscera	
Zagoraiou, Laskaro	Greek	Columbia University, New York, USA	Columbia University, New York, USA	Mechanisms of interneuron diversification in the mammalian spinal cord	

EMBO long-term fellowship awards 2004

country	name	nationality	host laboratory	home laboratory	research interest
Hungary	Csaba, Pal	Hungarian	University of Oxford, UK	Eotvos Lorand University, Budapest, Hungary	Evolution of gene dispensability and genetic interactions in metabolic network of yeast
	Lenart, Peter	Hungarian	IMP, Vienna, Austria	EMBL, Heidelberg, Germany	Spatial and temporal dynamics of cohesin loading and release in vertebrate cells
Iceland	Petersen, Petur	Icelandic	Centre for Molecular Biology and Neuroscience, Oslo, Norway	Yale University, New Haven, USA	<i>In vivo</i> functional analysis of the importance of the aquaporin 4 gene for astrocyte migration, <i>in vitro</i> and <i>in vivo</i> knockdown of genes important for astrocyte function
	Sigurdsson, Stefan	Icelandic	London Research Institute, South Mimms, UK	Institute of Biotechnology, San Antonio, USA	Rad26/CSB-mediated displacement of RNA polymerase II stalled at a DNA lesion
Ireland	Cunningham, Mark	Irish	University of Heidelberg, Germany	University of Leeds, UK	GABAergic interneurons: Molecular and cellular determinants in cortical network oscillatory behaviour
Israel	Argaman, Liron	Israeli	Hubrecht Laboratory, Utrecht, The Netherlands	Hadassah Medical School, Jerusalem, Israel	Identifying miRNA targets in <i>C. elegans</i> using biotinylated miRNAs
	Chill, Jordan	Israeli	NIH, Bethesda, USA	Weizmann Institute of Science, Rehovot, Israel	Novel NMR methodologies for study of membrane proteins
	Eldar, Avigdor	Israeli	California Institute of Technology, Pasadena, USA	Weizmann Institute of Science, Rehovot, Israel	Noise buffering in microbial development: Temporal variations in the <i>Bacillus subtilis</i> sporulation process
	Hasson, Peleg	Israeli	National Institute for Medical Research, London, UK	The Hebrew University, Jerusalem, Israel	Dissecting the roles of <i>Tbx5</i> in vertebrate forelimb development
	Ilani, Tal	Israeli	Cornell University, Ithaca, USA	Cornell University, Ithaca, USA	The molecular basis for structural changes during immunological synapse formation
	Kashkush, Khalil	Israeli	University of Georgia, Athens, USA	University of Georgia, Athens, USA	Epigenetic regulation of transposable elements
	Ron, Milly	Israeli	Zoological Station, Naples, Italy	Tel Aviv University, Israel	Chromatin remodelling during plant photomorphogenesis
	Sharon, Michal	Israeli	University of Cambridge, UK	University of Cambridge, UK	Development of mass spectrometry approaches for the analysis of RNA polymerase transcription complexes
	Yaniv, Karina	Israeli	NICHD, NIH, Bethesda, USA	Hadassah Medical School, Jerusalem, Israel	Characterisation of the lymphatic vascular system in the zebrafish <i>Danio rerio</i>

name	nationality	host laboratory	home laboratory	research interest	country
De Paola, Vincenzo	Italian	Cold Spring Harbor Laboratory, USA	Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland	Pre-synaptic terminal dynamics in the adult primary somatosensory cortex <i>in vivo</i>	Italy
Gallio, Marco	Italian	University of California, San Diego, La Jolla, USA	Wenner-Gren Institute, Stockholm University, Sweden	The perception of temperature in the <i>Drosophila</i> brain	
Maggi, Laura	Italian	EMBL, Monterotondo, Italy	EMBL, Monterotondo, Italy	Long-term changes in behaviour and synaptic plasticity following silencing of specific neuronal populations during development	
Simmer, Femke	Dutch	University of Edinburgh, UK	University of Edinburgh, UK	Genetic analysis of RNA interference induced heterochromatin assembly in <i>S. pombe</i> using an inducible system	The Netherlands
van den Burg, Harrold Alfred	Dutch	Swammerdam Institute for Life Sciences, University of Amsterdam, The Netherlands	Sainsbury Laboratory, Norwich, UK	Large-scale identification of targets for SUMO protein modification in plant innate immunity	
van Roon, Anne-Marie M.	Dutch	MRC Laboratory of Molecular Biology, Cambridge, UK	Leiden University, The Netherlands	Structural and biochemical studies of U2 snRNP components present at the catalytic centre of the spliceosome	
Coelho, Susana	Portuguese	Biological Station of Roscoff, France	Biological Station of Roscoff, France	Role of Ca <sup>2+</sup> in the cross-talk between the cell cycle and polarization in the <i>Fucus</i> zygote	Portugal
Santos Da Silva, Jorge Pedro	Portuguese	Cold Spring Harbor Laboratory, USA	COSI, University of Torino, Orbassano, Italy	Activity-dependent mechanisms controlling GABAergic neuron development during functional circuitry formation	
Santos, Ana	Portuguese	Gulbenkian Institute of Science, Oeiras, Portugal	Skirball Institute, New York, USA	Identification and characterisation of new genes required for dorsal closure in <i>D. melanogaster</i>	
Bernal, Juan A.	Spanish	Hutchison/MRC Research Centre, Cambridge, UK	IRNAS, Seville, Spain	Replication stalling and chromosomal instability: The role of the BRCA2 breast cancer susceptibility protein	Spain
Catalá, Rafael	Spanish	Rockefeller University, New York, USA	INIA, Madrid, Spain	Characterisation of post-transcriptional regulation of the <i>Arabidopsis thaliana</i> bZIP ABI5	
Graupera Garcia-Mila, Maria	Spanish	Ludwig Institute for Cancer Research, London, UK	Ludwig Institute for Cancer Research, London, UK	The role of PI3K isoforms in VEGF-receptor signalling and angiogenesis	
Guil, Sonia	Spanish	Western General Hospital, Edinburgh, UK	Western General Hospital, Edinburgh, UK	hnRNP A1: Nucleo-cytoplasmic shuttling and cellular functions following stress signalling	

EMBO long-term fellowship awards 2004

country	name	nationality	host laboratory	home laboratory	research interest
Spain cont.	Huertas, Pablo	Spanish	The Wellcome Trust/Cancer Research UK, Gurdon Institute, Cambridge, UK	University of Seville, Spain	Analysis of early events in the DNA damage response
	Izquierdo, Luis	Spanish	University of Dundee, UK	MSI/WTB Complex, School of Life Sciences, University of Dundee, UK	Functional genomics relating to the biosynthesis of trypanosome glycoconjugates
	Jiménez, Beatriz	Spanish	University of Florence, Sesto Fiorentino, Italy	University of Valencia, Burjasot, Valencia, Spain	NMR cross-correlation and <sup>13</sup> C direct detection to address signal transduction in CutA1 proteins
	Sánchez, Ignacio Enrique	Spanish	EMBL, Heidelberg, Germany	University of Basel, Switzerland	Structure-based prediction of the energetics of protein-nucleic acid complexes
	Sancho Madrid, David	Spanish	Cancer Research UK, London, UK	Hospital de La Princesa, Madrid, Spain	Functional characterisation of a novel C-type lectin receptor differentially expressed in CD8 $\alpha$ + dendritic cells
Sweden	Engblom, David	Swedish	DKFZ, Heidelberg, Germany	DKFZ, Heidelberg, Germany	Glutamate signalling in dopaminergic cells: A trigger for drug addiction?
	Gustavsson, Peter	Swedish	University College London, UK	Karolinska Institute, Stockholm, Sweden	Role of programmed cell death during neurulation and in the pathogenesis of neural tube defects
	Heddad Masson, Mounia	Swedish	University of Geneva, Switzerland	Arrhenius Laboratories, Stockholm University, Sweden	Genetic analysis of retrograde signalling in <i>Chlamydomonas</i> using FLPs (FLU-like proteins)
	Holm, Pontus	Swedish	Institute of Stem Cell Research, Neuherberg/Munich, Germany	Lund Stem Cell Center, Lund, Sweden	Regulation of gene expression and function in neuronal and hematopoietic stem cells
	Jormakka, Mika	Swedish	University of New South Wales, Sydney, Australia	Imperial College London, UK	Structural and molecular studies of the intracellular chloride channel (CLIC) family
	Spåhr, Henrik	Swedish	Stanford University, San Francisco, USA	Karolinska Institute, Huddinge, Sweden	Structural studies of the RNA polymerase II transcription machinery: Mechanism of start-site selection
Switzerland	Berset, Thomas	Swiss	Victor Chang Cardiac Research Institute, Sydney, Australia	Institute of Zoology, Zurich, Switzerland	A forward genetic screen to identify genes that regulate muscle stem cell biology in zebrafish ( <i>Danio rerio</i> )
	Bühler, Marc	Swiss	Department of Cell Biology, Boston, USA	Institute of Cell Biology, Bern, Switzerland	The role of the Rdp1 complex in RNAi-mediated heterochromatin assembly and its possible link to nonsense surveillance
	Fiaux, Jocelyne	Swiss	University of Heidelberg, Germany	ETH, Zurich, Switzerland	Mechanism of chaperone-assisted co-translational protein folding

name	nationality	host laboratory	home laboratory	research interest	country
Kaeser, Matthias	Swiss	The Salk Institute, La Jolla, USA	ISREC, Epalinges, Switzerland	Identification and characterisation of oct4 expression determinants	United Kingdom
LeibundGut-Landmann, Salomé	Swiss	Cancer Research UK, London Research Institute, UK	Cancer Research UK, London Research Institute, UK	Plasmacytoid versus conventional dendritic cells: Induction of type I interferon by Toll-like receptor ligands	
Page, Damian	Swiss	Pasteur Institute, Paris, France	University of Zurich, Switzerland	A chromosome conformation analysis of the X inactivation centre in mouse	
Senti, Kirsten-André	Swiss	Wenner Gren Institute, Stockholm University, Sweden	Wenner Gren Institute, Stockholm University, Sweden	Integration of multiple extracellular cues in epithelial cell guidance	
Weihofen, Andreas	Swiss	Center for Neurologic Diseases, Boston, USA	Center for Neurological Diseases, Boston, USA	Identification and characterisation of Parkin ubiquitin ligase complex (PUBLIC) in human brain	
Allen, Nicola	British	Stanford University Medical School, USA	Stanford University Medical School, Stanford, USA	Is there a role for thrombospondin in critical period plasticity?	
Briggs, John	British	LMU of Munich, Germany	University of Oxford, UK	The infection pathway of HIV observed using single virus tracing	
Henderson, Ian	British	UCLA, Los Angeles, USA	UCLA, Los Angeles, USA	<i>De novo</i> DNA methylation and RNA silencing	
Loizou, Joanna	British	International Agency for Research on Cancer, Lyon, France	International Agency for Research on Cancer, Lyon, France	Role of epigenetic modifications in DNA repair, cell cycle and oncogenic transformation	
Ooi, Steen	British	Columbia University, New York, USA	Columbia University, New York, USA	Regulation of <i>de novo</i> methylation and transposon silencing in germ cells	
Selby, David	British	University of Southern Denmark, Odense, Denmark	Macquarie University, Sydney, Australia	Modification-specific proteomics: Determining protein glycosylation heterogeneity and its effect on protein interactions	other nationalities
Shivdasani, Anish	British	IMBA, Vienna, Austria	University of Sheffield, UK	A transgenic RNAi screen to identify novel factors affecting wiring specificity in the <i>Drosophila</i> olfactory system	
Smith, Christopher	British	University of Cambridge, UK	Walter and Eliza Hall Institute of Medical Research, Parkville, Australia	Antigen presentation in a complex viral infection	
Darken, Rachel	American	Vall d'Hebron Research Institute, Barcelona, Spain	Weill Medical College of Cornell University, New York, USA	Role of FoxG1 in glioma tumorigenesis	
Harper, Shannon	American	University Medical Center, Utrecht, The Netherlands	University of Texas, Dallas, USA	Elucidating the molecular mechanisms of Epac signalling and regulation	
Luftig, Micah	American	IRBM P. Angeletti, Pomezia, Italy	IRBM P. Angeletti, Pomezia, Italy	Structural basis for Herpesvirus entry: HSV-1 gD/Nectin-1 $\alpha$ complex	

EMBO long-term fellowship awards 2004

country	name	nationality	host laboratory	home laboratory	research interest
other nationalities cont.	Schurter, Brandon	American	Pasteur Institute, Paris, France	UCSD, La Jolla, USA	Elucidating a novel signalling pathway implicated in Vav1 arginine methylation: Role in T-cell expansion and differentiation
	Shaye, Daniel	American	IBMB, Barcelona, Spain	Columbia University, New York, USA	A screen for Dpp/TGF- $\beta$ and Wg/Wnt targets involved in cell migration
	Savina, Ariel Edgardo	Argentinian	Curie Institute, INSERM U365, Paris, France	Curie Institute, INSERM U.365, Paris, France	Antigen presentation and T cell-mediated immunity: Membrane trafficking during cross-presentation
	Deane, Janet	Australian	University of Oxford, UK	University of Sydney, Australia	Structural studies of the type III secretion system of <i>Shigella flexneri</i>
	Tkachev, Dmitri	Belarusian	University of Heidelberg, Germany	Babraham Institute, Cambridge, UK	The role of DNA methylation-dependent chromatin remodelling in activity-regulated neuronal gene expression
	Archambault, Vincent	Canadian	University of Cambridge, UK	The Rockefeller University, New York, USA	Proteomics of mitotic kinases in the fly
	Dubé, Nadia	Canadian	University Medical Center Utrecht, The Netherlands	McGill University, Montreal, Canada	Understanding the function of ras-associating domain-containing proteins in processes related to cancer
	Lucifero, Diana	Canadian	The Babraham Institute, Cambridge, UK	McGill University, Montreal, Canada	Novel epigenetic mechanisms involved in imprinted gene regulation
	Samaha, Anne-Noël	Canadian	University Pierre and Marie Curie, Paris, France	University of Michigan, Ann Arbor, USA	Investigating the role of the extracellular signal regulated kinase (ERK) pathway in the cellular and behavioral responses to drugs of abuse
	Schmeing, Thomas Martin	Canadian	MRC, Cambridge, UK	Yale University, New Haven, USA	Structural studies of translation initiation in eukaryotes
	Watt, Alanna	Canadian	University College London, UK	University College London, UK	Evaluating the activity-dependence of synapse elimination at an identified central synapse
	Court, Felipe	Chilean	San Raffaele Scientific Institute, Milan, Italy	University of Edinburgh, UK	Integrin-dependent signalling events in Schwann cells involved in axonal sorting and myelination
	Hui, Lijian	Chinese	IMP, Vienna, Austria	IMP, Vienna, Austria	Analysing the functions of AP-1 in liver carcinogenesis
	Anand, Kanchan	Indian	EMBL, Heidelberg, Germany	Aventis Pharma Deutschland, Frankfurt, Germany	Structural analysis of HIV/EIAV-encoded transcriptional activator Tat in complex with cyclin T1 and TAR-RNA

name	nationality	host laboratory	home laboratory	research interest	country
Tyagi, Shweta	Indian	University of Lausanne, Switzerland	Cold Spring Harbor Laboratory, USA	Role of HCF-1 in cell-cycle progression through association with E2F transcriptional regulators	
Mochida, Satoru	Japanese	Cancer Research UK, Herts, UK	Okinawa Institute of Science and Technology, Gushikawa, Okinawa, Japan	Analysing different mechanisms of cyclin A and B destruction	
Yamagishi, Satoru	Japanese	MPI of Neurobiology, Martinsried, Germany	Chiba University, Chuo-ku, Japan	Genetic analysis of the FLRT family of transmembrane proteins putative co-receptors of fibroblast growth factor receptors	
El Hage, Aziz	Lebanese	Institute of Cell and Molecular Biology, Edinburgh, UK	Institute of Biophysical Chemistry, Paris, France	Nop15p: A link between ribosome biosynthesis and cell cycle progression in <i>S. cerevisiae</i> ?	
Calderon de Anda, Froylan	Mexican	COSI, University of Torino, Orbassano, Italy	COSI, University of Torino, Orbassano, Italy	Mechanisms of neuronal differentiation	
Taylor, Staffan	New Zealander	University of Oxford, UK	The University of Western Australia, Perth, Australia	The oxidative stress proteome of plant mitochondria: Identifying proteins sensitive to the products of lipid peroxidation	
Rizzoli, Silvio	Romanian	MPI for Biophysical Chemistry, Göttingen, Germany	University of Colorado Health Sciences Center, Denver, USA	Role of early endosomes in synaptic vesicle cycling	
Bereshchenko, Oksana	Russian	EMBL, Monterotondo, Italy	EMBL, Monterotondo, Italy	The role of TIP48 and TIP49 <i>in vivo</i> : C/EBP $\alpha$ connection and mouse models	
Soshnikova, Natalia	Russian	University of Geneva, Switzerland	MDC for Molecular Medicine, Berlin, Germany	Hoxd13 as a model of trinucleotide repeat expansion diseases	
Lee, Soo Jae	South Korean	MRC, Cambridge, UK	Osaka University, Osaka, Japan	Structure-function analysis of complexes of Nab2 and Sus1 important in co-ordinating the gene expression machinery	

number and percentage of long-term fellowship applications and awards 2000–2004

country from	applications	% of total	awards	% of total	success rate %
Austria	67	1.54	19	2.35	28
Belgium	71	1.63	10	1.24	14
Croatia	20	0.46	4	0.50	20
Czech Republic	37	0.85	7	0.87	19
Denmark	53	1.22	11	1.36	21
Finland	49	1.13	10	1.24	20
France	909	20.90	172	21.31	19
Germany	489	11.24	116	14.37	24
Greece	92	2.12	25	3.10	27
Hungary	50	1.15	11	1.36	22
Iceland	10	0.23	2	0.25	20
Ireland	47	1.08	6	0.74	13
Israel	231	5.31	39	4.83	17
Italy	294	6.76	43	5.33	15
Netherlands	159	3.66	44	5.45	28
Norway	10	0.23	1	0.12	10
Poland	38	0.87	6	0.74	16
Portugal	58	1.33	19	2.35	33
Slovenia	5	0.11	0	0	–
Spain	513	11.80	81	10.04	16
Sweden	184	4.23	25	3.10	14
Switzerland	75	1.72	26	3.22	35
Turkey	26	0.60	1	0.12	4
United Kingdom	250	5.75	30	3.72	12
Eastern Europe	110	2.53	9	1.12	8
USA/Canada	186	4.28	41	5.08	22
others	316	7.27	49	6.07	16
<b>total</b>	<b>4349</b>	<b>100</b>	<b>807</b>	<b>100</b>	<b>19</b>

year	appl.	awards	success rate %
1977	236	94	40
1978	235	101	43
1979	254	101	40
1980	242	108	45
1981	274	111	41
1982	276	91	33
1983	294	103	35
1984	305	112	37
1985	340	92	27
1986	333	90	27
1987	383	120	31
1988	455	141	31
1989	460	118	26
1990	526	123	23
1991	571	139	24
1992	626	142	23
1993	739	199	27
1994	806	176	22
1995	877	147	17
1996	898	160	18
1997	831	185	22
1998	790	144	18
1999	830	170	20
2000	707	155	22
2001	645	147	23
2002	789	178	22
2003	1080	164	15
2004	1137	163	15

long-term fellowship pattern of applications and awards 1977–2004

EMBO long-term fellowships 2004: geographical distribution

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	Eastern Europe	USA/Canada	others	total	
Austria							1	2	1																				13	
Belgium							8	1																						14
Croatia																														0
Czech Rep.					2																									2
Denmark				2	2		3	2		1												2	4		1	1				18
Finland							3																			1				5
France		2	4			2	20	9	2	4		2	2	1	3		5	4				9	1	1		9	7	11	8	120
Germany			2	1	2	1	2	17	8		2		1	1	15	4			1			9	3	1		4	4	6	12	87
Greece										1					6															2
Hungary																														0
Iceland												3																		3
Ireland							1																2				1		1	5
Israel																														0
Italy			1				6	2		2				1	14			3	1	1		6	2			2	1	2	7	51
Netherlands			3				7	4	1	1				1	1	3			1			7				1	2	4		36
Norway							1	1			1																			4
Poland							1																							1
Portugal							2												2								1			5
Slovenia																												1		1
Spain							2	12	6				1		2	3				1		6	2		1	3		2	6	47
Sweden			3					10	3		2				2	2		1	1		3		1	1	2	3			4	39
Switzerland			1		2	1	2	43	10	2	1		2	1	1		1	1	1		6	2		1	3	2	6	4	93	
Turkey																														0
UK		2	4	2	5	3	1	58	25	4	4	2		5	9	11		1	1		31	17	4		3	5	19	28	244	
EMBL							1	4	9	2		1		1		1	3				3					1	1	1	5	33
Eastern Europe																														0
USA/Canada		4	6	2	2	5	1	74	25	12		8	38	20	12		2	2	1		25	18	8		24	1			290	
others		1				1	4	3				1										1	7	1	1	3	1			24
total		13	20	9	13	16	8	276	109	24	18	6	14	51	73	41	1	17	15	4	113	59	17	5	59	29	51	76	1137	

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	Eastern Europe	USA/Canada	others	total	
Austria																														2
Belgium									1	1																				2
Croatia																														0
Czech Rep.																														0
Denmark										1													4							4
Finland																														0
France									1	2	1									1								2	1	9
Germany										4	3			1														1	15	
Greece																														0
Hungary																														0
Iceland																														0
Ireland																														0
Israel																														0
Italy										1	1																	1	2	7
Netherlands																														8
Norway																														1
Poland																														0
Portugal																														1
Slovenia																														0
Spain																														4
Sweden																														3
Switzerland																												1	1	13
Turkey																														0
UK		1	1	1				14	4	1	1	1		2		2						6	1	1		1	4	4	45	
EMBL								1	1							1														6
Eastern Europe																														0
USA/Canada		1	1					14	4	3				5	2					1		1	1	3		3			41	
others																														2
total		3	1	3	1	3	1	47	19	7	1	2	1	9	3	3	0	0	3	0	9	6	8	0	7	4	11	11	163	



country	name	nationality	host laboratory	home laboratory	research interest
<b>Austria</b>	Moll, Isabella	Austrian	MPI for Molecular Genetics, Berlin, Germany	Institute for Microbiology and Genetics, Vienna, Austria	Translation of leaderless mRNA by protein-deficient ribosomes: A glimpse of the past
	Ott, René Georg	Austrian	CNIO, Madrid, Spain	Medical University of Vienna, Austria	Loss of JunB turns cdk6 from a tumour suppressor to a tumour promoter
	Wruss, Jürgen	Austrian	University of Lübeck, Germany	Institute of Biochemistry, Vienna, Austria	Analysis of virus-receptor interactions with NMR techniques
<b>Belgium</b>	De Naeyer, An	Belgian	Karolinska Institute, Stockholm, Sweden	University of Gent, Belgium	Ligand screening of natural plant compounds as selective estrogen/orphan receptor modifiers and exploration of their (non)genomic hormone activities
	De Rop, Larissa	Belgian	Fraunhofer Institute, IGB, Stuttgart, Germany	Flemish Institute for Biotechnology, Leuven, Belgium	Analysis of adhesion and invasive growth of <i>C. albicans</i> mutants in a reconstituted human tissue-culture system
	Deghorain, Marie	Belgian	University of Oxford, UK	Catholic University of Louvain, Louvain-la-Neuve, Belgium	Inducible insertion of modified precursors in the cell wall of rod-shaped and spherical lactic acid bacteria: A fluorescent study
	Morreel, Kris	Belgian	MPI for Molecular Plant Physiology, Golm, Germany	Flanders Interuniversity, Gent, Belgium	GC-MS metabolic profiling of xylem extracts from <i>Arabidopsis</i> plants with altered monolignol biosynthesis
<b>Croatia</b>	Terzic, Janos	Croatian	Goethe University Medical School, Frankfurt, Germany	University of Split, Croatia	Role of ASAP1 in the EGF receptor recycling
<b>Czech Republic</b>	Andelova, Hana	Czech	EMBL, Heidelberg, Germany	Charles University, Hradec Kralove, Czech Republic	Cell biology of <i>Francisella tularensis</i> in macrophages
	Bartos, Jan	Czech	UMR INRA-UBP, Clermont-Ferrand, France	Institute of Experimental Botany, Olomouc, Czech Republic	Physical mapping of the 3B chromosomes from hexaploid bread wheat
	Cvackova, Zuzana	Czech	MPI of Molecular Cell Biology and Genetics, Dresden, Germany	Charles University, Prague, Czech Republic	Spliceosomal snRNP dynamics
	Sindelka, Radek	Czech	Chalmers University of Technology, Göteborg, Sweden	Institute of Molecular Genetics AV CR, Prague, Czech Republic	The expression profiling of "embryonic" genes during <i>Xenopus laevis</i> development by real-time PCR analysis

name	nationality	host laboratory	home laboratory	research interest	country
Rasmussen, Søren	Danish	CNRS, Montpellier, France	University of Aarhus, Denmark	<i>In vivo</i> studies of retroviral RNA dimerisation by real-time single RNA molecule detection	<b>Denmark</b>
Schroeder Mantoni, Tine	Danish	EMBL, Heidelberg, Germany	Institute of Cancer Research, Sutton, UK	Investigation of the dynamic assembly of the androgen receptor transcription complex in response to DNA damage by ChIP assays	
Palokangas, Veera	Finnish	King's College, London, UK	University of Helsinki, Finland	Isolation and culturing of neonatal mouse cardiomyocytes for studying palladin and myotilin in normal and diseased cells	<b>Finland</b>
Bajenoff, Marc	French	NIAID, Bethesda, USA	Institute of Molecular and Cellular Pharmacology, Valbonne, France	Elucidation of the mechanisms by which NK cells influence CD4 T-cell differentiation in mice infected with the intracellular parasite <i>Leishmania major</i>	<b>France</b>
Beckoüet, Frédéric	French	Medical School Cardiff University, UK	Joliot-Curie, Gif-sur-Yvette, France	Effect of yeast RNA polymerase II mutants on transcription coupled repair	
Bonnot, Sophie	French	University of the Mediterranean, Marseille, France	Faculty Notre Dame de la Paix, Namur, Belgium	Identification and characterisation of <i>Brucella</i> secreted effectors regulated by a quorum sensing transcriptional regulator	
Bournaud, Margot	French	MPI for Experimental Medicine, Göttingen, Germany	INSERM U513, Créteil, France	Characterisation of VGLUT3, an atypical vesicular glutamate transporter	
Brachet, Philippe	French	University of Patras, Greece	University Hospital Centre, Nantes, France	Effect of an ectopic expression of the nerve growth factor receptor TrkA on the plasticity and survival of adult rat striatal neurons	
Frémeaux-Bacchi, Véronique	French	University of Newcastle, UK	European Hospital Georges Pompidou, Paris, France	The functional significance of factor I mutations in patients with Atypical Haemolytic Uraemic Syndrome	
Giraud, Matthieu	French	ICGEB, Trieste, Italy	Necker Hospital, Paris, France	Molecular basis of the genetic association of a SNP in an intron-splicing site of the <i>CHRNA1</i> autoantigen gene, in autoimmune <i>Myasthenia gravis</i>	
Gregoire, Guillaume	French	EMBL, Heidelberg, Germany	University Paris 7 - Denis Diderot, Paris, France	A microscopic model description of <i>Listeria monocytogenes</i> motility	
Lecat, Sandra	French	EMBL, Heidelberg, Germany	CNRS, Illkirch, France	Identification of new proteins implicated in the signalling pathway of NK2 receptor by a translocation assay	

country	name	nationality	host laboratory	home laboratory	research interest
France cont.	Romao, Maryse	French	EMBL, Heidelberg, Germany	Institute Curie, Paris, France	Study of a kinetochore component in <i>S. cerevisiae</i> , its mutation effect in mitotic spindle and in SPB maturation
	Toesca, Isabelle	French	University of Cambridge, UK	IBCG, Toulouse, France	Mapping of phosphorylation sites in <i>E. coli</i> RNase E by the bacteriophage T7 protein kinase
Germany	Baudendistel, Nina	German	Research Center for Molecular Medicine, Debrecen, Hungary	DKFZ, Heidelberg, Germany	<i>In vivo</i> characterisation of protein-protein interactions between the AP-1 transcription activator proteins c-Fos and c-Jun with fluorescence resonance energy transfer (FRET)
	Ernst, Robert	German	Medical University, Vienna, Austria	Johann W. Goethe University, Frankfurt, Germany	Functional characterisation of the yeast ABC transporter Pdr5p by rational mutagenesis and <i>in vivo</i> labelling
	Fritz, Stefan	German	CNRS, Gif-Sur-Yvette, France	University of Barcelona, Spain	Pyrene G-actin polymerization induced by pure Golgi membranes
	Grütz, Gerald	German	MRC, Cambridge, UK	Charité, Berlin, Germany	Generation of mice deficient for ZFP36L2/Tis11D
	Klocke, Michael	German	Teagasc Crops Research Centre Oak Park, Carlow, Ireland	Institute for Agriculture Technique Bornim e.V., Potsdam, Germany	Development of a real-time-PCR-based assay for quantitative detection of lactobacilli as a tool for the analysis of biocoenosis of fermentative bacteria within grass silages
	Paeschke, Katrin	German	MRC, Cambridge, UK	University of Witten/Herdecke, Germany	Telomere-binding proteins and the G-quadruplex structure in the macronucleus of <i>Stylonychia lemnae</i>
	Reichelt, Mike	German	EMBL, Heidelberg, Germany	University of Freiburg, Germany	Characterisation of replication and budding sites of LaCrosse bunyavirus by immuno-electronmicroscopy and <i>in-situ</i> -hybridisation
	Sassen, Martin Christian	German	Aarhus University, Denmark	Philipps-University, Marburg, Germany	Localisation and regulation of TRPM6
	Schepsky, Alexander	German	Marie Curie Research Institute, Oxted, UK	University of Iceland, Reykjavik, Iceland	Do the microphthalmia-associated transcription factor (MITF) and $\beta$ -catenin interact on Mitf target promoters
	Steffen, Anika	German	FIRC Institute of Molecular Oncology, Milan, Italy	GBF, Braunschweig, Germany	Identification and characterisation of protein complexes associated with IRSp53
	Stute, Christiana	German	Umea University, Sweden	Philipps-University, Marburg, Germany	Effects of the receptor tyrosine kinase alk on vertebrate myotube formation

name	nationality	host laboratory	home laboratory	research interest	country
Bessa, Maria	Greek	Institut du Fer à Moulin, Paris, France	IMBB, Heraklion, Greece	Functional characterisation of neural and glial TAG-1 in myelinated fibers	Greece
Emmanouil, Fletmetakis	Greek	MPI for Molecular Plant Physiology, Golm, Germany	Agricultural University of Athens, Greece	Molecular and physiological analysis of carbonic anhydrase isoforms in <i>Lotus japonicus</i> root nodules	
Kiupakis, Alexandros	Greek	University of Cambridge, UK	IMBB FORTH, Heraklion, Greece	Transcriptional profiling of <i>Drosophila</i> conditional lethal insertion mutants	
Kotantaki, Panorea	Greek	National Institute for Medical Research, London, UK	University of Patras, Greece	Conditional inactivation of the cell cycle inhibitor Geminin: Electroporation of ES cells with a Geminin-LoxP construct, selection of positive clones and blastocyst injections	
Lalioti, Vassiliki	Greek	Gent University, Belgium	Autonomous University of Madrid, Spain	Proteomics of GLUT4 and associated proteins: Identification of GLUT4 phosphorylation sites and characterisation of proteins associated with GLUT4 by mass spectrometry	
Liokatis, Stamatios	Greek	University of Basel, Switzerland	University of Ioannina, Greece	Oligomerisation state and structure-function relationships of the inner nuclear membrane protein LBR	
Papavasileiou, Dimitris	Greek	MRC, Cambridge, UK	Mycology Reference Laboratory, Athens, Greece	Cell signalling in <i>Dictyostelium</i> development and differentiation	
Rigas, Stamatias	Greek	University of Freiburg, Germany	Agricultural University of Athens, Greece	Subcellular localisation of the <i>Arabidopsis</i> TRH1 K <sup>+</sup> transporter and quantitative gene expression analysis in root hair defective mutants	
Sergaki, Maria Christina	Greek	NIMR, London, UK	Hellenic Pasteur Institute, Athens, Greece	Clarification of the function of BM88, a neurogenic molecule, by the generation of knockout mice	
Sotirou, Evangelos	Greek	Lund University, Sweden	University of Patras, Greece	Differentiation of GABA <sub>A</sub> receptor function and pharmacology between dorsal and ventral hippocampus	
Spyroulias, Georgios	Greek	University of Florence, Italy	University of Patras, Greece	Mapping the contact interface of HIV gp120 V3 and CD4+ T-cell CCR5 N-terminal peptides through NMR spectroscopy: Implications for HIV inhibitor design	
Stylios, Kosmidis	Greek	Regensburg University, Germany	BSRC "Alexander Fleming", Vari, Greece	Ferritin-dependent neurodegeneration in <i>D. melanogaster</i>	
Tarsounas, Madalena	Greek	CNIO, Madrid, Spain	Clare Hall Laboratories, South Mimms, UK	Investigating the role of RAD51 paralogues in telomere maintenance	

country	name	nationality	host laboratory	home laboratory	research interest
Greece cont.	Kalamvoki, Maria	Greek	University of Ferrara, Italy	Hellenic Pasteur Institute, Athens, Greece	Mechanisms of disruption of intracellular calcium levels by the HCV NS5A protein
Hungary	Barabás, Orsolya	Hungarian	EMBL, Hamburg, Germany	Institute of Enzymology, Budapest, Hungary	Structural biology insights into mechanism and evolution of catalysis by dUTPase
	Gáspári, Zoltán	Hungarian	University of Helsinki, Finland	Eötvös Loránd University, Budapest, Hungary	Detailed characterisation of <i>Drosophila</i> dUTPase by advanced NMR technique
	Kis, Adrienn	Hungarian	Lausanne University, Switzerland	University of Cambridge, UK	Insulin resistance, cardiovascular risk. Studies on genetically modified mouse models
	Kiss, Anett	Hungarian	Johannes Gutenberg University of Mainz, Germany	Hungarian Academy of Sciences, Szeged, Hungary	Structural flexibility of <i>in vitro</i> reconstituted LHCI
	Meszaros, Tamas	Hungarian	University of London, London, UK	Budapest University of Technology, Hungary	MAPKs in <i>Arabidopsis</i> flagellin signalling
	Novák, Béla	Hungarian	Cancer Research UK, London, UK	Budapest University of Technology, Hungary	Computational modelling of DNA replication control in the fission yeast cell cycle
Iceland	Valdimarsdottir, Gudrun	Icelandic	Ubrecht Laboratory NIOB, The Netherlands	Ludwig Institute for Cancer Research, Uppsala, Sweden	Cross-talk between signalling pathways in hES cells
Ireland	Fullard, John	Irish	Fred Hutchinson Cancer Research Center, Seattle, USA	IMBB, Heraklion, Greece	Determination of transcription factor target genes involved in neural development
	McMahon, Siobhan	Irish	Columbia University College of Physicians & Surgeons, New York, USA	Biosciences Institute, Cork, Ireland	Lineage relations of radial glia and their progeny in the developing rat spinal cord
Israel	Arbesfeld, Rina	Israeli	MRC, Cambridge, UK	Sackler School of Medicine, Tel Aviv, Israel	Analysing the molecular function of Axin and Dsh in the $\beta$ -catenin degradation complex
	Ben-Aroya, Shay	Israeli	Institute Curie, Paris, France	Tel Aviv University, Israel	Genomic location of the RFC-like complexes in the yeast <i>S. cerevisiae</i> , and their role in DNA replication
	Eldor, Roy	Israeli	Hospital Cochin-Saint-Vincent de Paul, Paris, France	Hadassah University Hospital, Jerusalem, Israel	The effect of inhibition of NF- $\kappa$ B activity on pancreatic islets survival following transplantation
	Simovitch, Michal	Israeli	Imperial College, London, UK	The Hebrew University Faculty of Medicine, Jerusalem, Israel	Finding the mammalian target of newly discovered EHEC toxins by two-hybrid system
		Spira, Gadi	Israeli	Southampton General Hospital, UK	Rappaport Faculty of Medicine, Haifa, Israel

name	nationality	host laboratory	home laboratory	research interest	country
Weil, Miguel	Israeli	University of Rome Tor Vergata, Italy	Tel Aviv University, Israel	Involvement of nitric oxide in the caspase-dependent terminal differentiation of human epidermal keratinocytes	
Wiesel, Naama	Israeli	DKFZ, Heidelberg, Germany	Hebrew University, Jerusalem, Israel	The role of lamina-associated proteins in nuclear lamin assembly	
Asselta, Rosanna	Italian	University of Helsinki, Finland	University of Milan, Italy	Identifying gene variants predisposing to multiple sclerosis	Italy
Baratta, Mario	Italian	Institute for Biomedical Research, Frankfurt, Germany	University of Turin, Italy	Role of leptin in the mammary gland: Analysis of the leptin-activated JAK/STAT pathway	
Cammareri, Patrizia	Italian	CNIO, Madrid, Spain	Laboratory of Molecular Oncology, Palermo, Italy	Characterisation of epigenetic modification in tumour suppressor genes	
Campanella, Michelangelo	Italian	University College London, UK	ICSI, Ferrara, Italy	Study of the functional role of IF1, the mitochondrial ATPase inhibitor protein, in physiological and pathological conditions	
Cardinale, Stefano	Italian	University of Dundee, UK	University of Milan Bicocca, Italy	Analysis by FRET and FRAP of protein-protein interactions and dynamics involving mammalian cleavage factor I (CFIm)	
Casartelli, Nicoletta	Italian	University of Heidelberg, Germany	University of Rome "Tor Vergata", Italy	Functional screening of nef alleles derived from vertically infected children with different modality of disease progression	
Conrotto, Paolo	Italian	Ludwig Institute for Cancer Research, Uppsala, Sweden	IRCC, Turin, Italy	Mass spectrometric analyses of post-translational modification of hypoxia-inducible factor 1	
Galletti, Roberta	Italian	INRA, Versailles, France	University of Rome "La Sapienza", Italy	Cell wall characterisation of <i>Arabidopsis thaliana</i> plants expressing a fungal polygalacturonase	
Hofmann, Giovanna	Italian	University College London, UK	University of Florence, Italy	Stoichiometry of nAChR $\alpha$ 3 $\beta$ 4	
Lucchetti, Sabrina	Italian	INIA, Madrid, Spain	INRAN, Rome, Italy	Functional characterisation of ATHB-1, a transcription factor related to plant responses to abiotic stresses	
Mapelli, Marina	Italian	EMBL, Heidelberg, Germany	European Institute of Oncology, Milan, Italy	Structural characterisation of the functional hetero-conformational Mad2 oligomerisation	
Martino, Fabrizio	Italian	MRC, Cambridge, UK	University of Geneva, Switzerland	<i>In vitro</i> reconstitution of repressed chromatin in yeast	
Massimiliano, Marsano, René	Italian	MDC for Molecular Medicine, Berlin, Germany	University of Bari, Italy	Analysis of the transposition activity of <i>bar1</i> transposon in heterologous cellular systems	

country	name	nationality	host laboratory	home laboratory	research interest	
Italy cont.	Matassi, Giorgio	Italian	University of Cambridge, UK	Stazione Zoologica A. Dohrn, Napoli, Italy	Computational genomics analysis of the gene duplication process in the urochordate <i>Ciona intestinalis</i>	
	Paoletti, Francesca	Italian	Institute of Biotechnology, Halle, Germany	SISSA/ISAS, Trieste, Italy	Application of new refolding methodologies to human and mouse neurotrophine	
	Riccio, Andrea	Italian	The Babraham Institute, Cambridge, UK	Second University of Naples, Italy	Influence of an imprinted YAC transgene on expression of genes flanking its integration site	
	Russo, Antonella	Italian	Institute Pasteur, Paris France	University of Padova, Italy	High-resolution structural and replicative analysis of the common fragile site FRA6E, in normal and tumoural samples, by molecular combing	
	Settanni, Giovanni	Italian	MRC Centre for Protein Engineering, Cambridge, UK	University of Zurich, Switzerland	Protein folding kinetics investigated by molecular dynamics simulations of reversible folding and experiments	
	Spillantini, Maria Grazia	Italian	University of Florence, Italy	University of Cambridge, UK	Alpha-synuclein involvement in plasticity of the nervous system	
	Vallone, Beatrice	Italian	University of Cambridge, UK	University of Rome "La Sapienza", Italy	Structural biology of polyketide antibiotic crystallisation with robotic technology	
	Vannini, Claudia	Italian	Technical University Munich, Germany	University of Pisa, Italy	Isolation and characterisation of genes involved in adaptations to free-living and symbiotic lifestyles of polynucleobacter bacteria	
	Ventura, Natascia	Italian	University of Colorado, Boulder, USA	University of Rome "Tor Vergata", Rome, Italy	How the suppression of Frataxin extends <i>C. elegans</i> lifespan	
	Verga Falzacappa, Maria Vittoria	Italian	EMBL, Heidelberg, Germany	Burlo Garofolo IRCCS, Trieste, Italy	How does $\beta$ -defensin-like antimicrobial peptide hepcidin modulate the expression of iron metabolism genes?	
	Zappavigna, Vincenzo	Italian	Institute of Genetic Medicine, New York, USA	University of Modena, Italy	Analysis of the role of Pbx1 in the proliferation and terminal differentiation of chondrocyte precursors using micromass mesenchyme cultures from <i>Pbx1</i> <sup>-/-</sup> mutant mice	
	The Netherlands	Huibregtse, Inge	Dutch	Gent University, Belgium	Academic Medical Centre, Amsterdam, The Netherlands	Genetically modified <i>Lactococcus lactis</i> secreting IL-10; a therapeutic approach for inflammatory bowel disease
		Kooistra, Matthijs	Dutch	FIRC Institute of Molecular Oncology, Milan, Italy	University Medical Centre Utrecht, The Netherlands	The role of Epac/Rap signalling in endothelial cell-cell adhesion

name	nationality	host laboratory	home laboratory	research interest	country
Schippers, Jos	Dutch	University of Warwick, UK	University of Groningen, Haren, The Netherlands	Transcriptional analysis of the early leaf senescence mutant <i>old9</i>	
Smits, Saskia	Dutch	University of Lubeck, Germany	Utrecht University, The Netherlands	Elucidation of the crystal structure of the main proteinase of toroviruses	
Banachewicz, Wiktor	Polish	EMBL, Heidelberg, Germany	Warsaw University, Poland	Inhibition of amyloidogenic aggregates by small molecules	Poland
Dawidowska, Malgorzata	Polish	University Medical Center Rotterdam, The Netherlands	Polish Academy of Sciences, Poznan, Poland	Detection and assessment of minimal residual disease in ALL patients	
Gagos, Mariusz	Polish	ITC-CNR, Trento, Italy	Agricultural University, Lublin, Poland	Molecular organisation of polyene antibiotic Amphotericin B in lipid membranes: A research by Linear Dichroism in Infrared Spectroscopy	
Karawajczyk, Anna	Polish	Federal Polytechnic School of Lausanne, Switzerland	Leiden University, The Netherlands	A hybrid quantum mechanics-molecular mechanics approach to the study of bleomycin activity	
Król, Marcin	Polish	Cancer Research UK, London, UK	Jagiellonian University, Kraków, Poland	Development of a new protocol for the efficient optimization of protein-protein encounter complexes	
Mlynarczuk-Bialy, Izabela Dominika	Polish	Charite Medical School, Berlin, Germany	Centre of Biostructural Research, Warsaw, Poland	20S proteasome function and composition in chemosensitive and resistant melanomas	
Raczynska, Katarzyna	Polish	CNRS, Strasbourg, France	Institute of Molecular Biology, Poznan, Poland	Purification of proteins binding to the 3' ends of mitochondrial transcripts	
Wojda, Iwona	Polish	CNRS, Gif-sur-Yvette, France	Marie Curie-Sklodowska University, Lublin, Poland	Functional genomics analysis of <i>Drosophila</i> innate immune response	
Pungercar, Joze	Slovenian	University of Milan, Italy	Jozef Stefan Institute, Ljubljana, Slovenia	Cellular studies of toxic phospholipases A2	Slovenia
Rozman, Damjana	Slovenian	IGBMC, Strasbourg, France	University of Ljubljana, Ljubljana, Slovenia	Molecular mechanisms of the cAMP-dependent activation of mammalian lanosterol 14a-demethylase gene <i>CYP51</i>	
Rupnik, Maja	Slovenian	Institute for Medical Microbiology and Hygiene, Mainz, Germany	University of Ljubljana, Ljubljana, Slovenia	Isolation of host cell protease involved in processing of <i>C. difficile</i> toxin B (TcdB)	
Aguado, Enrique	Spanish	Immunology Centre of Marseille-Luminy, INSERM-CNRS, Marseille, France	University of Murcia, Spain	Role of LAT as a platform for intracellular signalling	Spain
Barrera Olivares, Francisco	Spanish	Utrecht University, The Netherlands	Universidad Miguel Hernandez, Alicante, Spain	Determinants of KcsA stability in lipid membranes	

country	name	nationality	host laboratory	home laboratory	research interest
Spain cont.	Cabrera-Poch, Noemi	Spanish	Erasmus Medical Centre, Rotterdam, The Netherlands	Institute of Biomedical Research "Alberto Sols", Madrid, Spain	Biological functions of kidins220, a novel neuronal protein, only known substrate of protein kinase D
	Cordobés, Shandra	Spanish	MPI for Terrestrial Microbiology, Marburg, Germany	University of the Basque Country, San Sebastian, Spain	Cloning of a gene responsible for a fungal autoregulator
	Cordón Preciado, Violeta	Spanish	IGH, Montpellier, France	Cancer Research Centre, Salamanca, Spain	Origin choice in <i>S. cerevisiae</i> rDNA. Involvement of silencing machinery and gene expression
	Cubas Dominguez, Pilar	Spanish	John Innes Centre, Norwich, UK	UAM, Madrid, Spain	Optical projection tomography of arabidopsis axillary meristems
	de Nadal, Eulàlia	Spanish	Insitute of Biochemistry, Zurich, Switzerland	UPF, Barcelona, Spain	Control of gene expression by the yeast MAPK Hog1
	Del Carmen Sanz Miguel, Maria	Spanish	The Salk Institute for Biological Studies, La Jolla, USA	University Complutense of Madrid, Spain	Isolation and differentiation of stem cells
	Fernandez Valledor, Annabel	Spanish	Karolinska Institute, Stockholm, Sweden	Scientific Park Barcelona, Spain	Role of LXR in leukocyte extravasation
	Giménez-Cassina, Alfredo	Spanish	University of Oxford, UK	UAM, Madrid, Spain	Packaging of human genomic locus of frataxin in a herpesvirus-based amplicon vector
	Gonzalez Traves, Francisca	Spanish	London Research Institute, UK	Health Institute Carlos III, Madrid, Spain	Role of PKCε in IFN-γ mediated inflammatory response
	Herraez Hernandez, Elsa	Spanish	University of Heidelberg, Germany	University of Barcelona, Spain	Construction and characterisation of truncated mutants derived from a codon-optimized <i>EHBsAG-S</i> gene
	Marsellach-Castellví, Francesc Xavier	Spanish	University of Edinburgh, UK	Institute of Molecular Biology, Barcelona, Spain	Analysis of the contribution of the <i>S. pombe</i> multi KH-domain protein vig to heterochromatin structure and function
	Martinez-Morales, Juan-Ramon	Spanish	Cajal Institute, CSIC, Madrid, Spain	EMBL, Heidelberg, Germany	FGF signalling role in chick retina neurogenesis
	Moreno Raja, Miguel	Spanish	Georg Speyer Haus Institute for Biomedical Research, Frankfurt, Germany	Miguel Hernandez University, Alicante, Spain	Search for peptide inhibitors of HIV gp41-mediated membrane-fusion
	Muñiz, Manuel	Spanish	Max Plank Society, Tübingen, Germany	University of Seville, Spain	Role of Emp24 complex in cargo recruitment into COPI vesicles derived from Golgi compartment
	Nombela-Arrieta, César	Spanish	CBR, Boston, USA	CNB, Madrid, Spain	<i>In situ</i> analysis of dock2- and PI3K-deficient lymphocytes by multi-photon intravital microscopy
Ortín Pérez, Aurora	Spanish	Moredun Research Institute, Penicuik, UK	University of Zaragoza, Spain	<i>In vitro</i> transfection of molecular clones into culture systems for obtaining a steady source of retrovirus particles associated with respiratory neoplasm of small ruminants	

name	nationality	host laboratory	home laboratory	research interest	country
Pastrana Izquierdo, Erika	Spanish	EMBL, Monterotondo, Italy	UAM, Madrid, Spain	Retinal ganglion cell axonal regeneration promoted by olfactory ensheathing glia: Determining the implication of BDNF through the employment of cellular populations derived from the transgenic mice <i>trkB shc/shc</i> and <i>trkB plcy/plcy</i>	
Porras Millán, Pablo	Spanish	Freiburg University, Germany	University of Cordoba, Spain	Importing glutaredoxin 2 of <i>S. cerevisiae</i> into mitochondria: Mechanism and regulation	
Poveda Larrosa, Jose Antonio	Spanish	IST, Lisbon, Portugal	University Miguel Hernandez, Elche, Spain	Fluorescence studies on microheterogeneity in biological systems	
Riolobos, Laura	Spanish	Institute of Medical Virology, Giessen, Germany	CSIC-UAM, Madrid, Spain	Searching the nuclear import route of the major parvovirus minute virus of mice capsid protein	
Rodríguez Romero, Marta	Spanish	INSERM, Paris, France	University of Salamanca, Spain	The apical localisation of GLUT2 in intestinal absorbing cells: Respective roles of dietary sugar and insulin	
Zeini Moreno, Miriam	Spanish	University of Kaiserslautern, Germany	Health Institute Carlos III, Madrid, Spain	Reciprocal regulation between NO and HIF-1α activity in different cell types	
Modamio Høybjør, Silvia	Spanish	University of Sussex, Brighton, UK	Hospital Ramón y Cajal, Madrid, Spain	Study of the inner ear expression pattern of the <i>DFNA44</i> gene and protein	
Wennmalm, Stefan	Swedish	University of Basel, Switzerland	Karolinska Institute, Stockholm, Sweden	DNA-binding properties of homeodomain proteins studied by Fluorescence Correlation Spectroscopy	Sweden
Cereghetti, Grazia Maria	Swiss	University Hospital Zurich, Switzerland	University of Padova, Italy	<i>In vivo</i> detection of prion protein RNA partners by CLIP	Switzerland
Eberhard, Alexandra	Swiss	The Weizmann Institute of Sciences, Rehovot, Israel	CERVI IFR, INSERM 74, Lyon, France	Functional role of epithelium penetrating dendrites of mucosal dendritic cells	
Flückinger, Sabine	Swiss	University of Perugia, Italy	SIAF, Davos Platz, Switzerland	Cloning and characterisation of target vaccine antigens for the treatment of invasive aspergillosis	
Lesslauer, Annegret	Swiss	Sars International Center for Marine Molecular Biology, Bergen, Norway	University of Zurich, Switzerland	Shining light on the photoreceptor synapse: Enhancer trap screen in zebrafish	

country	name	nationality	host laboratory	host laboratory	research interest
Turkey	Tufan, Halle Ann	Turkish	John Innes Centre, Norwich, UK	Bogzici University, Bebek, Turkey	Characterisation of yellow rust resistance in wheat as NBS-LRR using an expressed, DNA marker system
	Tuna, Metin	Turkish	The Weizmann Institute of Science, Rehovot, Israel	Trakya University, Tekirdag, Turkey	Allopolyploidy induced genome evolution in the wheat ( <i>Aegilops-triticum</i> ) group
United Kingdom	Howard, Jonathan	British	MRC, Cambridge, UK	University of Cologne, Germany	Interaction of the interferon-inducible p47 resistance GTPases with membrane phospholipids
	Kelly, Gemma	British	Karolinska Institute, Stockholm, Sweden	University of Birmingham, UK	Cellular phenotype and viral genotype in Burkitt's lymphocyte
	Lancaster, Lorna	British	University of Witten/Herdecke, Germany	University of York, UK	Specific activity of Colicin E3, a ribosomal RNase
	Monk, David	British	CNRS, Montpellier, France	Imperial College, London, UK	Epigenetics of placental-specific imprinting
	Winter, Alan	British	Biocenter Oulu, Finland	University of Glasgow, UK	Prolyl 4-hydroxylase assembly and function: A nematode model system
other nationalities	Dickson, Kirsten	American	University of Rome, Italy	University of Edinburgh, UK	Regulation of psd-95 mRNA by the Fragile X mental retardation protein
	Eliscovich, Carolina	Argentinian	EMBL, Heidelberg, Germany	UPF, Barcelona, Spain	CPEB-mediated RNA localisation in spindles
	Herrera Seitz, Karina	Argentinian	MPI of Biochemistry, Martinsried, Germany	Institute of Biological Sciences, Mar del Plata, Argentina	Chemotaxis in extreme halophilic microorganisms
	Rodríguez, Fernanda	Argentinian	The Rockefeller University, New York, USA	Centre for Molecular Biology, Heidelberg, Germany	Crystallisation of the s32-DnaK complex
	Macreadie, Ian	Australian	University Hospital of Lausanne, Switzerland	CSIRO, Victoria, Australia	Cloning of the dihydrofolate synthase gene from <i>Pneumocystis jirovecii</i>
	Fedorovich, Sergei	Belarusian	INSERM UMR 641, Marseille, France	Institute of Biophysics and Cell Engineering, Minsk, Belarus	Role of calmodulin in regulation of fusion between synaptic vesicles and the plasma membrane
	Ganchev, Dragomir N.	Bulgarian	Univeristy of British Columbia, Vancouver, Canada	Utrecht University, The Netherlands	Biomembrane force probe investigation of transmembrane peptides incorporated in biomembranes
	Pantchev, Ivelin Yordanov	Bulgarian	Tel Aviv University, Israel	Sofia University, Bulgaria	Identification of HK022 integrase variants performing IHF-independent <i>attP-attB</i> integrative recombination
	Vichev, Konstantin	Bulgarian	Royal Veterinary College, London, UK	Technical University, Dresden, Germany	Effect of BMP-4 and Noggin on embryonic muscle stem cells in a mammalian model
	Lagos Martinez, Luisa	Colombian	CNR, Genova, Italy	Ciudad University, Bogota, Colombia	Identification of ion channels of the parasite <i>Leishmania</i>

name	nationality	host laboratory	host laboratory	research interest	country
Õpik, Maarja	Estonian	Scottish Crop Research Institute, Dundee, UK	University of Tartu, Estonia	Molecular quantification of mycorrhizal fungi	
Al-Otaibi, Hani	Jordanian	Stazione Zoologica Anton Dohrn, Naples, Italy	Bilkent University, Ankara, Turkey	Transcriptional control of Na/I symporter gene	
Park, Yungki	Korean	Goteborg University, Sweden	University of Saarland, Saarbruecken, Germany	Measurement of the mobilities of the p24 family members using fluorescence correlation spectroscopy (FCS)	
Pop, Ovidiu Ioan	Romanian	GBB, Groningen, The Netherlands	University of Jena, Germany	Analysis of the processing of Tat-dependent substrates by <i>Bacillus subtilis</i> signal peptidases	
Dorokhov, Boris	Russian	CNRS, Toulouse, France	RAS, Moscow, Russia	Partition of the linear plasmid prophage N15: The role of multiplicity and dispersion of centromeres	
Fedorova, Elena	Russian	Wageningen University, The Netherlands	RAS, Moscow, Russia	Study of Rop GTPases and syntaxin in regulation of membrane fusion in root of <i>Medicago truncatula</i>	
Nikonova, Ekaterina	Russian	University of Innsbruck, Austria	RAS, Moscow, Russia	Study of specificity and of RNA-protein interactions: Effect of mutations in the ribosomal protein L1 on its target sites on rRNA and mRNA	
Perevyazova, Tatiana	Russian	Max Plank Research Unit for Structural Molecular Biology, Hamburg, Germany	RAS, Moscow, Russia	Crystallisation of site-specific nickase BspD61	
Pindyurin, Alexey	Russian	EMBL, Heidelberg, Germany	RAS, Moscow, Russia	Genome-wide mapping of <i>in vivo</i> DNA targets of the <i>Drosophila</i> Suppressor of Under-Replication (SuUR) protein	
Spániková, Silvia	Slovak	Utrecht University, The Netherlands	Slovak Academy of Science, Bratislava, Slovak Republic	Cloning of genes of novel esterase from wood-degrading fungus <i>Schizophyllum commune</i>	
Artamonov, Mykhaylo	Ukrainian	MPI for Molecular Physiology, Dortmund, Germany	Palladin Institute of Biochemistry, Kyiv, Ukraine	Study of N-acylethanolamines binding with serum albumin	
Ivakhno, Sergii	Ukrainian	Graz University of Technology, Austria	Institute of Molecular Biology and Genetics, Kyiv, Ukraine	Design and programming of microarray/LS-MS/MS integrative software package	
Nemazanyy, Ivan	Ukrainian	Royal Free and University College Medical School, London, UK	Laboratory of Cell Growth Regulation, Kyiv, Ukraine	Functional analysis of the interaction between ribosomal S6 kinase and CoA synthase: Implication in energy metabolism	
Rodnin, Mykola Volodimirovitch	Ukrainian	Institute of Structural Biology Jean Pierre Ebel, Grenoble, France	Institute of Molecular Biology and Genetics, Kyiv, Ukraine	Adenovirus structural genomics	

number and percentage of short-term fellowship applications and awards 2000–2004

Country from	applications	% of total	awards	% of total	success rate %
Austria	11	0.70	8	0.88	73
Belgium	32	2.03	19	2.08	59
Croatia	15	0.95	10	1.10	67
Czech Rep.	40	2.53	23	2.52	58
Denmark	22	1.39	12	1.32	55
Finland	12	0.76	9	0.99	75
France	133	8.42	78	8.55	59
Germany	116	7.35	63	6.91	54
Greece	69	4.37	44	4.82	64
Hungary	40	2.53	24	2.63	60
Iceland	6	0.38	3	0.33	50
Ireland	16	1.01	9	0.99	56
Israel	66	4.18	49	5.37	74
Italy	245	15.52	133	14.58	54
Netherlands	40	2.53	26	2.85	65
Norway	8	0.51	5	0.55	63
Poland	49	3.10	22	2.41	45
Portugal	29	1.84	15	1.64	52
Slovenia	19	1.20	11	1.21	58
Spain	240	15.20	147	16.12	61
Sweden	23	1.46	16	1.75	70
Switzerland	18	1.14	7	0.77	39
Turkey	34	2.15	11	1.21	32
UK	59	3.74	37	4.06	63
Eastern Europe	153	9.69	78	8.55	51
others	84	5.32	53	5.81	63
<b>total</b>	<b>1579</b>	<b>100.00</b>	<b>912</b>	<b>100.00</b>	<b>58</b>

year	appl.	awards	success rate %
1977	294	213	72
1978	349	244	70
1979	344	243	71
1980	357	242	68
1981	339	235	69
1982	321	213	66
1983	335	223	67
1984	320	226	71
1985	304	221	73
1986	309	215	70
1987	301	212	70
1988	351	211	60
1989	331	199	60
1990	346	211	61
1991	344	194	56
1992	351	213	61
1993	376	209	55
1994	369	203	55
1995	325	187	57
1996	316	180	57
1997	339	188	55
1998	279	143	51
1999	230	138	60
2000	274	176	64
2001	233	124	53
2002	252	170	67
2003	289	138	48
2004	301	167	55

short-term fellowship pattern of applications and awards 1977–2004

EMBO short-term fellowships 2004: geographical distribution

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	Eastern Europe	others	total
Austria																									3		3	
Belgium								1		1						2										1	5	
Croatia																												0
Czech Rep.																												0
Denmark									1					2			2	1		1					1	1	9	
Finland											1				1										1		4	
France			2	1	1	1	1	1	4	1			2	11		1	2	1	2	4				2	7		46	
Germany		2	2	1	2			3	5	1			1	7	1		2		2	8		1		1	5	1	45	
Greece								1						1													2	
Hungary								1																	1		2	
Iceland																												0
Ireland								1					1														2	
Israel								2															1	1	2		6	
Italy							1	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1		1	3	18	
Netherlands				1				1			1						2	1		6			1		3		16	
Norway							2	1															1		1		5	
Poland																											0	
Portugal					1															1							2	
Slovenia																											0	
Spain		1						1	1		1	2	1		2											1	10	
Sweden			2	1				1	1	2				4	1					1				1		1	15	
Switzerland							1	1	1	1								1		1	1	1				1	9	
Turkey																											0	
UK			1	1	2	1	5	5	5	2		4	13	1	3	1	1	10					2	1	3	1	62	
EMBL			2	1	1	4	1		1			4		1						1						1	18	
Eastern Europe																											0	
others				1	2	3	1				2	3							5		1	1			1	2	22	
total		3	9	3	8	6	3	22	21	17	10	3	2	9	31	7	1	14	4	6	42	1	6	5	6	29	13	301

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	Eastern Europe	others	total
Austria									1																2		3	
Belgium										1						1												2
Croatia																												0
Czech Rep.																												0
Denmark									1																		1	
Finland											1				1										1		3	
France										1	1			2	2			2		1	3				1	3	19	
Germany		2	2	1	1				1	3	1			1	5	1		1	1	7				1	2	1	31	
Greece											1																1	
Hungary									1																		1	
Iceland																												0
Ireland													1														1	
Israel																							1	1	1		3	
Italy									1	1	2			1	1	1		1	1		1	1				3	13	
Netherlands												1						1		2					3		7	
Norway																						1					1	
Poland																											0	
Portugal																					1						1	
Slovenia																											0	
Spain		1						1	1		1	2	1		2											1	5	
Sweden			2	1				1	1	2				4	1					1				1		1	8	
Switzerland								1	1	1	1							1		1	1	1				1	7	
Turkey																											0	
UK			1																						1	1	38	
EMBL																											13	
Eastern Europe																											0	
others													2		2						2	1			1	1	9	
total		3	4	1	4	2	1	11	11	14	6	1	2	7	24	4	0	8	0	3	25	1	4	2	5	16	8	167



EMBO young investigators selected in 2004

name	nationality	institute	research interest
Agami, Reuven	Dutch/Israeli	NKI, Amsterdam, The Netherlands	DNA damage checkpoint
Batista, Facundo	Argentinian	Cancer Research UK, London, UK	B-cell activation and fate
Baum, Buzz	British	Ludwig Institute for Cancer Research, London, UK	Genetics of the actin cytoskeleton
Behrens, Axel	German	Cancer Research UK, London, UK	MAP kinase signalling
Bertolotti, Anne	French	Ecole Normale Supérieure (ENS), Paris, France	Pathological protein misfolding
Bochtler, Matthias*	German	IIMCB, Warsaw, Poland	Peptidases, proteases and protein degradation
Elena, Santiago	Spanish	CSIC-UPV, Valencia, Spain	Experimental viral evolution
Friml, Jiri	Czech	ZMBP, University of Tübingen, Germany	Auxin transport
Labib, Karim	British	Cancer Research UK, Manchester, UK	Cell cycle regulation
Levashina, Elena	Russian	IBMC, Strasbourg, France	Vector-pathogen interactions in malaria
Leys, David	Belgian	University of Leicester, UK	Molecules at metabolic crossroads
Mitchell, Kevin	Irish	Trinity College, Dublin, Ireland	Genetics of axon guidance
Møller, Simon Geir	Norwegian	University of Leicester, UK	Plastids in embryogenesis
Poirazi, Panayiota	Cypriot	IMBB, Heraklion, Greece	Computational modelling of the brain
Spahn, Christian	German	Charité Medical School, Berlin, Germany	Macromolecular machines
Sträßer, Katja	German	Gene Center, University of Munich, Germany	Nuclear mRNA export
Stumpf, Michael	German	Imperial College London, UK	Evolution of complex disease
Voinnet, Olivier	French	IBMP, Strasbourg, France	RNA silencing in plants and animals
Wutz, Anton	Austrian	IMP, Vienna, Austria	X-chromosome inactivation
Zeeman, Samuel	British	University of Bern, Switzerland	Sugar export in plants

\* EMBO/HHMI young investigator

EMBO/HHMI scientists selected in 2004

Mocsai, Attila	Hungarian	Semmelweis University, Budapest, Hungary	Signalling in osteoclasts
----------------	-----------	--	---------------------------

EMBO young investigators selected 2000, 2001, 2002 & 2003

<b>A</b> Adams, Ralf Allain, Frederic Alon, Uri Antonny, Bruno Arber, Silvia Arkowitz, Robert Arribas, Joaquin Ashe, Hilary Averof, Michalis	<b>F</b> Fankhauser, Christian Fernandez-Chacon, Rafael	<b>M</b> Malnasi Csizmadia, Andras Mansuy, Isabelle Manzanares, Miguel Marin, Oscar Martin-Bermudo, Maria D. Mattevi, Andrea Mehlen, Patrick Meier, Pascal Mosialos, George Mota, Maria Musacchio, Andrea	<b>S</b> Salecker, Iris Santos, Manuel Saudou, Frédéric Schärer, Orlando D. Schedl, Andreas Schleper, Christa Schlötterer, Christian Schneitz, Kay Schwappach, Blanche Spang, Anne Stock, Daniela Suomalainen-Wartiovaara, Anu Szabó, Ildikó
<b>B</b> Barkai, Naama Barr, Francis Barral, Yves Beja, Oded Berger, Frederic Bertrand, Edouard Blazquez, Miguel Briscoe, James Bujnicki, Janusz	<b>H</b> Hajnal, Alex Hassan, Bassem Haucke, Volker Helariutta, Ykä Helms, Volkhard Hidalgo, Alicia Hirst, Judy Holstege, Frank Hopfner, Karl Peter	<b>N</b> Nagy, Laszlo Nehrbass, Ulf Neuhauss, Stephan Nichols, Benjamin Nissen, Poul Noselli, Stephane	<b>T</b> Tamagnone, Luca Tanaka, Tomoyuki Tavernarakis, Nektarios Teichmann, Sarah Telford, Maximilian Therond, Pascal Trouche, Didier Trumpp, Andreas Tuschl, Thomas
<b>C</b> Casares, Fernando Christoforidis, Savvas Collinson, Ian Conradt, Barbara Cosma, Maria Pia Cramer, Patrick Currie, Peter	<b>J</b> Jansen, Ralf Jensen, Torben Heick	<b>O</b> Otzen, Daniel Owen, David Owen-Hughes, Tom	<b>U</b> Uhlmann, Frank Ulrich, Helle Ungermann, Christian
<b>D</b> Davis, Daniel de Gier, Jan-Willem Delledonne, Massimo Dessen, Andrea Dickson, Barry Dominguez, Maria Donaldson, Anne	<b>K</b> Khakh, Baljit Knoblich, Jürgen Konieczny, Igor Kunji, Edmund	<b>P</b> Palková, Zdena Pellizzoni, Livio Peracchi, Alessio Perrakis, Anastassis Peters, Jan-Michael Philpott, Dana Pierre, Philippe Posas, Francesc	<b>V</b> van Aalten, Daan van den Ackerveken, Guido van der Goot, Gisou van Steensel, Bas Vinkemeier, Uwe
	<b>L</b> Lappalainen, Pekka Lecuit, Thomas Lemaitre, Bruno Logan, Malcolm Löwe, Jan Lygerou, Zoi	<b>R</b> Radtke, Freddy Reich, Ziv Robinson, Robert Rodriguez, Ivan	<b>W</b> Wimmer, Ernst A. <b>Z</b> Zernicka-Goetz, Magdalena



This booklet contains the profiles of the young investigators selected in 2002, 2003 and 2004.

To obtain a copy, e-mail [communications@embo.org](mailto:communications@embo.org) or download the PDF version at [www.embo.org/publications/archive.html](http://www.embo.org/publications/archive.html)

country	2000		2001		2002		2003		2004	
	appl.	awards	appl.	awards	appl.	awards	appl.	awards	appl.	awards
Austria	9	5	3	0	1	0	0	0	3	1
Belgium	8	0	2	0	3	0	2	1	1	0
Croatia	2	0	1	0	0	0	0	0	1	0
Czech Republic	2	0	0	1	6	0	14	0	4	0
Denmark	5	1	0	0	0	0	2	2	0	0
Finland	9	2	1	0	4	1	3	0	9	0
France	72	5	17	4	26	4	26	2	17	3
Germany	52	7	22	4	17	4	15	3	30	3
Greece	8	2	1	2	4	1	3	0	4	1
Hungary	2	1	1	0	6	0	7	1	5	0
Iceland	0	0	0	0	0	0	1	0	0	0
Ireland	6	0	3	0	0	0	0	0	3	1
Israel	13	2	7	1	4	0	5	1	5	0
Italy	22	1	6	3	14	3	11	1	14	0
Netherlands	10	2	6	2	3	0	4	0	3	1
Norway	2	0	1	0	1	0	1	0	0	0
Poland	13	1	2	0	8	1	6	0	8	1
Portugal	9	1	6	1	2	0	2	1	3	0
Slovenia	3	0	0	0	0	0	0	0	1	0
Spain	40	4	26	1	18	2	26	2	21	1
Sweden	23	1	3	0	15	0	7	1	8	0
Switzerland	21	6	11	3	12	3	5	1	8	1
Turkey	8	0	1	0	2	0	2	0	1	0
United Kingdom	75	14	30	1	23	4	21	5	20	7
others	1	0	0	0	0	0	0	0	3	0
<b>total</b>	<b>415</b>	<b>55</b>	<b>150</b>	<b>23</b>	<b>169</b>	<b>23</b>	<b>163</b>	<b>21</b>	<b>172</b>	<b>20</b>
female	94	12	44	4	45	4	47	7	38	4
male	321	43	106	19	124	19	116	14	134	16

	average	general statistics for all young investigators selected 2000-2004
age	34.8	
post-doctoral years	4.7	
total number of publications	20.0	
last author	3.0	
first author	9.1	

	no.	% of total	pre- and/or post-doctorate spent in the USA
USA	83	68.0	

	no.	% of total	post-doctoral fellowships were received from the following international agencies
EMBO	43	35.2	
HFSP	29	23.8	
EU TMR	17	13.9	



3rd EMBO Young Investigator Meeting in June 2004

young investigator lectures 2004	George Mosialos	FIMSA: NF-kB: Biology and Pathology	USA – Snowbird, UT	January 11–16
	Tomoyuki Tanaka	EMBL Seminar: Bi-orienting Chromosomes on the Mitotic Spindle	D – Heidelberg	January 13
	Andreas Trumpp	EMBO/SALK/EMBL Conference: Oncogenes and Growth Control	D – Heidelberg	April 17–20
	Andrea Mattevi	EMBL Seminar: Enzymes Acting on Biogenic Amines	D – Hamburg	April 22
	Christa Schleper	EMBO/EMBL Conference in Molecular Microbiology	D – Heidelberg	April 22–24
	Oded Beja	EMBO/EMBL Conference in Molecular Microbiology	D – Heidelberg	April 22–24
	Michael Glotzer	ASCB Summer Meeting on Cytokinesis	USA – Burlington, VT	April 22–25
	Christa Schleper	ASM Annual Meeting: Microbial Population Genomics and Ecology	USA – New Orleans, LA	May 23–27
	Philippe Pierre	ENII-EMBO Workshop on Mechanisms of Immunity	F – Ile Les Embiez	May 26–30
	Yves Barral	Joint FEBS/EMBO Conference: Cytoskeletal Dynamics	FIN – Helsinki	June 12–16
	Andrea Dessen	Gordon Conference on Bacterial Cell Surfaces	USA – New London, NH	June 27–July 2
	Bruno Antony	FASEB Summer Research Conference: Regulation and Biological Function of Small GTPases	USA – Snowmass, CO	July 10–15
	Christian Ungermann	FASEB Summer Research Conference: Protein Lipidation, Signalling and Membrane Domains	USA – Tucson, AZ	July 24–29
	Andrea Mattevi	11th Amine Oxidase Workshop – Amine Oxidases: Function and Dysfunction	UK – St. Andrews	July 25–29
	Andrea Mattevi	22nd European Crystallographic Meeting	H – Budapest	August 26–31
	Zdena Palkova	22nd Small Meeting on Yeast Transport and Energetics (SMYTE)	P – Azores	September 2–4
	Andras Malnasi Csizmadia	ELSO 2004	F – Nice	September 4–7
	Blanche Schwappach	ELSO 2004	F – Nice	September 4–7
	Frank Uhlmann	ELSO 2004	F – Nice	September 4–7
	Thomas Lecuit	ELSO 2004	F – Nice	September 4–7
Yves Barral	ELSO 2004	F – Nice	September 4–7	

Volker Haucke	ELSO 2004: Mini-symposium on Signal Recognition in Membrane Traffic	F – Nice	September 4–8
Frank Uhlmann	8th Workshop on Site-specific Recombination and Transposition	USA – Woods Hole, MA	September 26 – October 1
Frederic Saudou	BSDB Autumn Meeting: Genesis of the Nervous System	UK – Birmingham	September 27–29
Frank Uhlmann	EMBO Workshop on Cell Growth and the Cell Cycle	ES – Salamanca	September 30 – October 3
Janusz Bujnicki	Bioinformatics II – Methods, Technology and Software	CZ – Brno	October 13
Bas van Steensel	2nd EMBL/EMBO Symposium on Functional Genomics: Exploring the Edges of Omics	D – Heidelberg	October 16–19
Maria Pia Cosma	Seminar: Enhancing Effect of SUMF1, the Multiple Sulfatase Deficiency Gene, on Sulfatase Activities	I – Pavia	November 2
David Owen	EMBO Conference on Structures in Biology	D – Heidelberg	November 10–13
Helle Ulrich	ASM Conference on DNA Repair & Mutagenesis: From Molecular Structure to Biological Consequences	Bermuda – Southampton	November 14–20
Karl-Peter Hopfner	ASM Conference on DNA Repair & Mutagenesis: From Molecular Structure to Biological Consequences	Bermuda – Southampton	November 14–20

<b>practical courses 2004 Europe/EMBC</b>	Plant development: The molecular and cellular basis	J. A. Feijó M. Oliveira	P – Oeiras	March 22 – April 7
	Structural characterisation of macromolecular complexes: Modern techniques and strategies	C.W. Müller <i>et al.</i>	F – Grenoble (EMBL)	May 3–8
	Gene quantification by real-time qRT-PCR	V. Benes <i>et al.</i>	D – Heidelberg (EMBL)	May 9–13
	Digital image microscopy	I.T. Young <i>et al.</i>	NL – Delft	May 10–14
	Automated macromolecular structure solution	A. Perrakis <i>et al.</i>	NL – Amsterdam	May 25 – June 1
	Microarray technology: Genome – proteome – function	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	May 29 – June 5
	Molecular genetics with the fission yeast <i>Schizosaccharomyces pombe</i>	R. Egel O. Nielsen	DK – Copenhagen	June 6–18
	Microinjection, transfection and detection of probes in cells	W. Ansorge <i>et al.</i>	D – Heidelberg (EMBL)	June 7–12
	Advanced techniques in molecular medicine (Joint EU/EMBO Course)	U. Landegren <i>et al.</i>	S – Uppsala	June 7–15
	Transient kinetics applied to biological macromolecules	M.A. Geeves <i>et al.</i>	UK – Canterbury	July 11–17
	Animal models for development and disease	PI. Ingham V.T. Cunliffe	UK – Sheffield	July 12–24
	Biomolecular simulation	M. Nilges R. Wade	F – Paris	July 18–25
	Protein expression, purification and crystallisation (PEPC4)	P. Tucker <i>et al.</i>	D – Hamburg (EMBL)	August 11–18
	Multidimensional NMR in structural biology	R. Kaptein <i>et al.</i>	I – Il Ciocco, Lucca	August 15–20
	Cryo-electron microscopy and 3 D image analysis	A. Hoenger <i>et al.</i>	D – Heidelberg (EMBL)	September 5–14
	Anatomy and embryology of the mouse	A. Marusic <i>et al.</i>	HR – Zagreb	September 11–19
	Electron microscopy and stereology in cell biology (Joint FEBS/EMBO Course)	I. Fernandez <i>et al.</i>	F – Paris	September 12–22
	Multi-photon imaging of living cells and tissues	W. Denk A. Konnerth	D – Munich	October 11–17

Solution scattering from biological macromolecules	D. Svergun R. Willumeit	D – Hamburg (EMBL)	October 29 – November 5
Serial analysis of gene expression	F. Baas <i>et al.</i>	NL – Amsterdam	November 8–13

Microarray technologies: Applications in biomedical research (A-IMBN/EMBO Course)	W. Ansorge <i>et al.</i>	Japan, Tokyo	March 14–21	<b>practical courses 2004 outside Europe</b>
Electrophysiological concepts and techniques for studying cells (ICRO/UNESCO/EMBO Course)	W. Stühmer <i>et al.</i>	Brazil, Ribeirao Preto	April 4–18	
Molecular motors and the cytoskeleton (ICRO/UNESCO/EMBO Course)	L.C. Cameron E. Carafoli <i>et al.</i>	Brazil, Rio de Janeiro	June 7–18	
Phagocytosis and intracellular microorganisms (AMSUD-Pasteur/EMBO Course)	M.I. Colombo <i>et al.</i>	Argentina, Mendoza	August 23 – September 3	
Plant reproduction	W-C. Yang <i>et al.</i>	China, Beijing	August 25 – September 7	
Functional imaging in cell and developmental biology (NCBS/EMBO Course)	P. Bastiaens R. Pepperkok K. VijayRaghavan <i>et al.</i>	India, Bangalore	September 12–19	
Methods for protein simulation and drug design (CAS/EMBO Course)	F. Meyer <i>et al.</i>	China, Shanghai	September 13–24	
Proteomics and human diseases (CAS/EMBO/Tongji Course)	W. Hennig <i>et al.</i>	China, Wuhan	September 13–26	
Advanced methods in reconstructing molecular phylogenetic relationships	J. McInerney <i>et al.</i>	Brazil, Rio de Janeiro	November 1–5	

Receptor mechanisms and signal transduction	I. Kramer <i>et al.</i>	F – Bordeaux	July 14–19	<b>lecture courses 2004 Europe/EMBC</b>
3D structure databases – uses for biological problem solving	K. Henrick J. Thornton <i>et al.</i>	UK – Cambridge	September 20–24	

<b>workshops 2004 Europe/EMBC</b>	Protein sorting in the secretory pathway	S. Tooze <i>et al.</i>	A – Goldegg	January 13–18
	Epithelial polarity in development and disease (Joint CNRS/EMBO Workshop)	T. Lecuit <i>et al.</i>	F – Carry le Rouet	March 27–31
	A critical assessment of text mining methods in molecular biology (Joint E-BioSci/EMBO Workshop)	A. Valencia <i>et al.</i>	E – Granada	March 28 – April 1
	Telomeres and genome stability (Joint 58th Harden conference/EMBO Workshop)	D. Rhodes <i>et al.</i>	UK – Cambridge	April 3–7
	Recombination mechanisms: 40th Anniversary meeting of the Holliday model	A. Nicolas S. West	F – Seillac	May 24–28
	Advanced light microscopy: 4th International ELMI meeting	T. Nilsson <i>et al.</i>	S – Gothenburg	May 26–28
	Mechanisms of immunity (Joint ENII/EMBO Workshop)	P. Ricciardi Castagnoli <i>et al.</i>	F – Ile des Embiez (Var)	May 26–30
	Molecular and developmental biology of <i>Drosophila</i> : 14th International EMBO Workshop	T. Kaufman <i>et al.</i>	GR – Kolymbari, Crete	June 20–26
	Mechanisms of genomic integrity (Joint SFI/EMBO Workshop)	N. Lowndes <i>et al.</i>	IRL – Galway	June 21–24
	Molecular mechanisms of transposition, its regulation and evolution	A. Bucheton D. Finnegan	F – Roscoff	June 26–30
	AFM applications in biology (Joint FEBS/EMBO Workshop)	L.V. Melo <i>et al.</i>	P – Lisbon	July 7–9
	Lymphocyte antigen receptor and coreceptor signalling	C.T. Baldari <i>et al.</i>	I – Siena	September 11–15
	Calcium signalling and disease	E. Carafoli <i>et al.</i>	I – Capri	September 20–23
	Cell biology of virus infections	J. Krijnse Locker <i>et al.</i>	D – Heidelberg (EMBL)	September 25–29
	The Hsp90 chaperone machine	D. Picard J. Buchner	CH – Gwatt	September 25–29
	Cell growth and the cell cycle: XIII European cell cycle conference	S. Moreno <i>et al.</i>	E – Salamanca	September 30 – October 3

Nuclear organisation – from basic science to application	H.J. Lipps S. Gasser <i>et al.</i>	D – Elmau	October 7–10
Frontiers of molecular biology (EMBO Members Workshop)	R. Schroeder <i>et al.</i>	A – Vienna	October 15–19
Spatial and temporal dynamics of the endomembrane system (Joint FEBS/EMBO Workshop)	D. Holden H. Stenmark	E – San Feliu de Guixols	October 16–21
Interpreting hedgehog-gli signalling (Joint Juan March/EMBO Workshop)	I. Guerrero A. Ruiz i Altaba	E – Madrid	October 25–27
Pathogenesis of amoebiasis: From genomics to disease	D. Mirelman <i>et al.</i>	IL – Kibbutz Ein Gedi	November 16–20
Cell signalling and development (CAS/EMBO Workshop)	P. Ingham K. Liao <i>et al.</i>	China – Shanghai	June 28 – July 2
AIDS and TB: The way ahead (Wellcome Trust/EMBO Workshop)	S. Gordon <i>et al.</i>	South Africa – Cape Town	November 30 – December 8
Cell interactions in development and disease	S. Cohen L.S. Shashidhara <i>et al.</i>	India – Hyderabad	December 16–18

**workshops 2004  
outside Europe**

<b>conferences 2004 Europe/EMBC</b>	Oncogenes and growth control (Joint EMBL/SALK/EMBO Conference)	A. Nebreda <i>et al.</i>	D – Heidelberg (EMBL)	April 17–20
	Molecular microbiology: Exploring prokaryotic diversity (Joint EMBL/EMBO Conference)	V. de Lorenzo <i>et al.</i>	D – Heidelberg (EMBL)	April 22–26
	Cytoskeletal dynamics: From cell biol- ogy to development and disease (Joint FEBS/EMBO Conference)	O. Carpén P. Lappalainen	FIN – Helsinki	June 12–16
	The ubiquitin proteasome system in health and disease (Joint 59th Harden/EMBO Conference)	R.J. Mayer C. Gordon	UK – Cirencester	September 6–10
	Structural biology at cross-roads: From biological molecules to biological systems (Joint EMBL/EMBO Conference)	M. Wilmanns <i>et al.</i>	D – Hamburg (EMBL)	September 15–18
	Functional genomics conference II: Exploring the edges of “omics” (Joint EMBL/EMBO Conference)	E. Furlong N. Barkai <i>et al.</i>	D – Heidelberg (EMBL)	October 16–19
	Structures in biology (Joint EMBL/EMBO Conference)	D. Suck <i>et al.</i>	D – Heidelberg (EMBL)	November 10–13
	6th Community-wide experiment on the critical assessment of techniques for protein structure prediction	A. Tramontano <i>et al.</i>	I – Gaeta	December 4–8

plenary lectures 2004 Europe/EMBC				
John Diffley	Norwegian Biochemical Society Annual Meeting	N – Lillehammer	January 15–18	
David Sherratt	Cologne Spring Meeting Cell Dynamics – Subcellular and Cellular Movements	D – Cologne	March 3–5	
Anton Berns	1st IEO-IFOM Meeting on Cancer Research	I – Milan	March 11–14	
Charles Weissmann	International Winter Meeting of the Swiss Society of Neuropathology	CH – St Moritz	March 24–28	
Davor Soltor	Molecular Biology: Future Prospects Symposium in Honour of Dr Gudmundur Eggertsson	IS – Reykjavík	April 3	
Jan Hoeijmakers	Molecular Biology: Future Prospects Symposium in Honour of Dr Gudmundur Eggertsson	IS – Reykjavík	April 3	
Denis Bray	ESF-EURESCO EuroConference: Bacterial Neural Networks	E – San Feliu de Guixols	May 8–13	
Alfred Wittinghofer	EMBL Symposium on Lipid Binding Domains and Signalling	D – Heidelberg	May 14–15	
Tony Hunter	Dubrovnik Conference on Cellular Signalling 2004	HR – Cavtat	May 21–27	
Nick Proudfoot	ESF-EURESCO Conference: Gene Transcription in Yeast	E – San Feliu de Guixols	May 29 – June 3	
Iain Mattaj	29th FEBS Congress	PL – Warsaw	June 26 – July 1	
Christopher Dobson	BioScience 2004	UK – Glasgow	July 18–22	
Dénes Dudits	14th Congress of the Federation of European Societies of Plant Biology	PL – Krakow	August 23–27	
Yossih Shiloh	European Radiation Research 2004: 33rd Annual Meeting of the European Society for Radiation Biology	H – Budapest	August 25–28	
Walter Neupert	Bi-annual meeting of the Czech and Slovak Society for Biochemistry and Molecular Biology	CZ – Olomouc	August 31 – September 3	
Ueli Schibler	6th FISV Meeting	I – Riva del Garda	September 30 – October 3	
Michael Neuberger	1st International Conference on Basic and Clinical Immunogenomics	H – Budapest	October 3–7	
Andres Aguilera	Jacques Monod Conference: Biological Responses to DNA Damage	F – Roscoff	October 6–10	

Jonathan Jones	2nd EPSO Conference – Interactions in Plant Biology: Cells, Plants and Communities	I – Ischia	October 10–14	
David Baulcombe	33rd Annual Meeting of the Danish Society for Biochemistry and Molecular Biology	DK – Fyn	October 25–27	
Elisa Izaurralde	14th National Congress of Biochemistry	P – Vilamoura	December 2–4	
Jonas Frisén	5th International EMBL PhD Students Symposium	D – Heidelberg (EMBL)	December 2–4	
Robin Lovell-Badge	8th ADNAT Convention: Symposium on Comparative and Functional Genomics	India – Hyderabad	February 23–24	
Claudio Stern	The Hunter Cellular Biology Meeting	Australia – Hunter Valley	March 24–26	
Marjori Matzke	Gordon Research Conference: Plant Molecular Biology	USA – New Hampshire	July 18–23	
Pere Puigdomènech	Buenos Aires Plant Biology Lectures Series 2004	Argentina – Buenos Aires	October 25–27	
Harald Zur Hausen	NCBS International Workshop on Cervical Cancer	India – Bangalore	November 8–9	
Matthias Mann	2nd Australian Health and Medical Research Congress	Australia – Sydney	November 21–26	
Robert Huber	17th FAOBMB Symposium / 2nd IUBMB Special Meeting / A-IMBN Meeting	Thailand – Bangkok	November 22–26	
Pascale Cossart	XXVI Annual Meeting of the Chilean Society for Microbiology	Chile – Valparaiso	December 1–3	
Christopher Lamb	XL National Meeting of the Argentine Society for Biochemistry and Molecular Biology (SAIB)	Argentina – Misiones	December 5–8	

## plenary lectures 2004 outside Europe

	<b>name</b>	<b>home country</b>	<b>host laboratory</b>	<b>home laboratory</b>	<b>research interest</b>
<b>world programme fellows 2004</b>	Antsiferova, Maria	Russia	Institute of Cell Biology, Zurich, Switzerland	Institute of Highly Pure Biopreparations, St. Petersburg, Russia	Roles of activin and follistatin in skin morphogenesis and wound repair
	Caimi, Karina	Argentina	Veterinary Laboratories Agency, Surrey, UK	Biotechnology Institute, Buenos Aires, Argentina	Evolutionary relationships among strains of <i>Mycobacterium bovis</i> : New tools to study the nature and pattern of bovine tuberculosis
	Frankel, Nicolas	Argentina	MPI, Golm, Germany	University of Buenos Aires, Argentina	Analysis of transgenic plants expressing the water-stress inducible gene Asr1 in sense and antisense orientations
	Gorenkova, Natalia	Russia	Central Institute of Mental Health, Mannheim, Germany	Russian Academy of Medical Sciences, Moscow, Russia	Analysis of stress-induced changes in gene expression profile in animals with active and passive behavioural coping: Implications for animal models
	Lara-Gonzalez, Samuel	Mexico	Institut Pasteur, Paris, France	Autonomous National University of Mexico, Mexico	Structural and functional studies of glycogen synthase
	Moghimi, Babak	Iran	Erasmus University Medical Center, Rotterdam, The Netherlands	University of Social Welfare & Rehabilitation, Tehran, Iran	Establishing novel diagnostic test for Thalassemia patients
	Rahman, Habibur	Bangladesh	University of Leicester, UK	University of Rajshahi, Bangladesh	Molecular mechanisms by which cis- and trans-acting factors regulate alternative RNA processing

\* In July 2004 the World Programme Fellowships were integrated into the short-term fellowship scheme (see p. 53)

participation of women in EMBO activities

	<b>total number of EMBO members</b>	<b>women %</b>	<b>year</b>	<b>EMBO membership</b>
	1191	13.7	2004	
	<b>female participants %</b>	<b>female speakers %</b>	<b>EMBO courses &amp; workshops</b>	
practical courses	56	27		
workshops	40	25		
lecture courses	50.5	29		
conferences	40.5	21		
	<b>applications</b>	<b>awards</b>	<b>success rate %</b>	<b>EMBO long-term fellowships</b>
female applicants	533 (46.9%)	65 (39.9%)	12.2	(statistics for 2004)
male applicants	604 (53.1%)	98 (60.1%)	16.2	
total	1137	163	14.3	
	<b>applications</b>	<b>awards</b>	<b>success rate %</b>	<b>EMBO short-term fellowships</b>
female applicants	161 (53.7%)	84 (52.2%)	52.2	(statistics for 2004)
male applicants	140 (46.3%)	83 (47.8%)	59.3	
total	301	167	55.5	
	<b>applications</b>	<b>awards</b>	<b>success rate %</b>	<b>EMBO young investigators</b>
female applicants	269 (25.2%)	32 (22.5%)	11.9	(2000–2004 general statistics)
male applicants	800 (74.8%)	110 (77.5%)	13.8	
total	1069	142	13.3	
	<b>applications</b>	<b>awards</b>	<b>success rate %</b>	<b>EMBO young investigators</b>
female applicants	38 (22.1%)	4 (20.0%)	10.5	(statistics for 2004)
male applicants	134 (77.9%)	16 (80.0%)	11.9	
total	172	20	11.6	



contributions from EMBC member states  
(based on net national income at factor cost)

	Scale of contributions for 2004–2006 %	Budget for 2004 called up in EURD + 1,77%
Austria	2.0900	244,698
Belgium	2.5944	303,753
Croatia	0.2032	23,791
Czech Republic	0.6139	71,876
Denmark	1.5800	184,987
Finland	1.2362	144,735
France	14.8830	1,742,506
Germany	20.7922	2,434,357
Greece	1.3928	163,069
Hungary	0.5573	65,249
Iceland	0.0903	10,572
Ireland	0.9230	108,065
Israel	1.0958	128,297
Italy	12.1778	1,425,780
Netherlands	4.0805	477,746
Norway	1.6929	198,193
Poland	2.1200	248,210
Portugal	1.1368	133,097
Slovenia	0.2332	27,303
Spain	6.4358	753,505
Sweden	2.4625	288,310
Switzerland	3.1173	364,974
Turkey	2.3194	271,556
United Kingdom	16.1718	1,893,399
<b>total</b>	<b>100.0000</b>	<b>11,708,028</b>

## EMBO staff in heidelberg

Eilish Craddock, (left) Personal Secretary to Frank Gannon, and Pirkko Kokkosalo work in the Executive Director's office.



Kerstin Hiester (left) organises meetings at EMBO and travel arrangements. Seán Bourke welcomes visitors to EMBO at the reception desk and takes care of building matters

<b>executive director's office</b>	Frank Gannon	EMBO Executive Director EMBC Secretary General	frank.gannon@embo.org
	Eilish Craddock	Personal Secretary to Frank Gannon	eilish.craddock@embo.org
	Kerstin Hiester	Administrator	kerstin.hiester@embo.org
	Pirkko Kokkosalo**	Administrator	pirkko.kokkosalo@embo.org
<b>EMBC</b>	Gitta Bourke	Administrator	gitta.bourke@embo.org
<b>EMBO council and membership</b>	Claudia Hagedorn	Administrator	claudia.hagedorn@embo.org
<b>electronic information programme</b>	Les Grivell	Programme Manager	les.grivell@embo.org
	Ole Hansen	Technical Officer	ole.hansen@embo.org
	Anne Seller	Administrator	anne.seller@embo.org
	Sabine Rehberger-Schneider	Mobility Consultant	sabine.schneider@embo.org
<b>fellowship programme</b>	Jan Taplick	Programme Manager	jan.taplick@embo.org
	Liselott Ahlgren	Administrator	liselott.ahlgren@embo.org
	Agnès Visser-de Matteis	Administrator	matteis@embo.org
	Laura Cortesi	Assistant	cortesi@embo.org
	Zeynep Dinsi-Yararli***	Administrator	zeynep.dinsi@embo.org
<b>courses and workshops programme and world activities</b>	Mary Gannon	Programme Manager	mary.gannon@embo.org
	Kathy Oswald	Administrator	kathy.oswald@embo.org
	Laura Gordon*	Student Trainee	
	Felise Fortmann***	Administrator	felise.fortmann@embo.org
<b>science and society programme</b>	Andrew Moore	Programme Manager	andrew.moore@embo.org
	Alessandra Bendiscioli	Administrator	bendisci@embo.org
<b>young investigator programme and women in the life sciences</b>	Gerlind Wallon	Programme Manager	gerlind.wallon@embo.org
	Kim Piggott	Administrator	kim.piggott@embo.org
<b>finances</b>	Bernhard Huber	Financial Manager	bernhard.huber@embo.org
	Bärbel Traut-Laur	Administrator	baerbel.laur@embo.org

Iain Mattaj*	Executive Editor		<b>The EMBO Journal</b>
Pernille Rørth**	Executive Editor	rorth@embl.de	
Frank Gannon	Associate Editor	frank.gannon@embo.org	
Isabel Arnold***	Editor	embojournal@embo.org	
Valerie Ferrier	Editor	embojournal@embo.org	
Connie M. Lee*	Editor		
Thomas Lemberger***	Editor	embojournal@embo.org	
Astrid Lunkes	Editor	embojournal@embo.org	
Volker Wiersdorff	Editor	embojournal@embo.org	
Claire Johnstone	Editorial Assistant	embojournal@embo.org	
Sophia Katsogiannos	Editorial Assistant	embojournal@embo.org	
Fiona Panayi***	Editorial Assistant	embojournal@embo.org	
Sara Quirk*	Editorial Assistant		
Karen Thompson	Editorial Assistant	embojournal@embo.org	
Frank Gannon	Senior Editor	frank.gannon@embo.org	<b>EMBO reports</b>
Christine Blaumueller	Science Editor	emboreports@embo.org	
Holger Breithaupt	News Editor	emboreports@embo.org	
Caroline Hadley	Assistant Editor	emboreports@embo.org	
Susan Owens	Science Editor	emboreports@embo.org	
Uta Mackensen	Graphics Editor	emboreports@embo.org	
Caroline Simpson	Editorial Assistant	emboreports@embo.org	
Thomas Lemberger***	Editor	msb@embo.org	<b>Molecular Systems Biology</b>
Astrid Lunkes	Editor	msb@embo.org	
Lindsay Johnson**	Communications Officer	lindsay.johnson@embo.org	<b>Communications and Web</b>
Patricia Codyre***	Communications Officer (Web)	patricia.codyre@embo.org	
Uta Mackensen	Graphic Designer	uta.mackensen@embo.org	
Ellen Peerenboom*	Communications Officer		
Lynne Turnbull	Administrator	lynne.turnbull@embo.org	
Seán Bourke	Reception/ Building Administration	sean.bourke@embo.org	<b>Reception and Building Maintenance</b>
Luc van Dyck	Executive Co-ordinator	luc.vandyck@elsf.org	<b>European Life Sciences Forum</b>

\* left during the course of 2004

\*\* started in 2004

\*\*\* started in 2005

molecular  
systems  
biology

March 2005 → a new online journal from EMBO and MPG goes live  
www.molecularsystemsbiology.com

events in 2005

practical courses 2005

lecture courses 2005

workshops 2005

conferences 2005

symposia 2005

other EMBO events 2005

<b>practical courses 2005 Europe/EMBC</b>	Functional genomics: Making sense out of transcriptomes	P. Ricciardi-Castagnoli <i>et al.</i>	I – Milan	February 14–19
	From mice to cells	L. Minichiello <i>et al.</i>	I – Monterotondo (EMBL)	March 13–20
	Optical techniques for cell physiology and developmental biology	W.B. Amos <i>et al.</i>	UK – Plymouth	March 30 – April 9
	Analysis and informatics of microarray data	A. Brazma <i>et al.</i>	UK – Hinxton (EMBL-EBI)	April 4–9
	Quantification of gene expression by real-time qRT-PCR	V. Benes <i>et al.</i>	D – Heidelberg (EMBL)	May 28 – June 2
	Light microscopy in living cells	N. Moreno G. Cox	P – Oeiras	June 9–17
	Microinjection and detection of probes in cells	R. Pepperkok <i>et al.</i>	D – Heidelberg (EMBL)	June 13–19
	Exploiting anomalous scattering in macromolecular structure determination (Joint ESRF/EMBL/EMBO Course)	W. Shepard <i>et al.</i>	F – Grenoble (EMBL)	June 15–21
	BioXAS on metalloproteins and organism tissue	W. Meyer-Klaucke S. Mangani	D – Hamburg (EMBL)	June 14–19
	Advanced techniques in molecular medicine (Joint EU/EMBO Course)	U. Landegren <i>et al.</i>	S – Uppsala	June 15–22
	Microarray technology: From production to systems biology	C. Schwager <i>et al.</i>	D – Heidelberg (EMBL)	June 20–25
	Electron microscopy and stereology in cell biology	J. Nebesarova <i>et al.</i>	CZ – Ceske Budejovice	June 21–30
	High-throughput methods for protein production and crystallisation	C. Cambillau <i>et al.</i>	F – Marseille	July 4–13
	Enhancer detection, gene trapping and TILLING in zebrafish	T. Becker <i>et al.</i>	N – Bergen	August 1–11
	SNP genotyping and haploblock analysis	L. Peltonen <i>et al.</i>	FIN – Helsinki	August 21–27
	Methods in cell biology: From single molecule to complex systems analysis	D. Brunner T. Surrey	D – Heidelberg (EMBL)	August 22 – September 2
	Image processing for cryo-electron microscopy	E. Orlova H. Saibil	UK – London	September 4–14
	Endocytosis and signalling during development	M. Gonzalez <i>et al.</i>	D – Dresden	September 4–15

Structure determination of biological macromolecules by solution NMR (Joint Biozentrum/EMBO Course)	S. Grzesiek <i>et al.</i>	CH – Basel	September 7–14
Combination of electron microscopy and X-ray crystallography in structure determination	J. Navaza <i>et al.</i>	F – Gif-sur-Yvette	October 23–28
RNAi and reverse genetics in trypanosomes (Joint TDR/EMBO Course)	C. Clayton <i>et al.</i>	Ghana – Accra	January 10–21
Advanced optical methods in cell and developmental biology (Joint BMRC/EMBO Course)	S. Ahmed E. Stelzer <i>et al.</i>	Singapore	January 17–28
Structural and evolutionary genomics. Genome and RNA: Expression and functions (Joint ICRO/UNESCO/EMBO Course)	G. Bernardi <i>et al.</i>	Costa Rica – San Jose	February 26 – March 2
Bioinformatics and genome data analysis (Joint Institut Pasteur Paris/ICGEB/ ICRO/UNESCO/IUBMB/EMBO Course)	H. Ayadi A. Rebai F. Tekaia	Tunisia – Sfax	March 24 – April 2
Malaria functional genomics (Joint TDR/HIMI/EMBO Course)	B. Crabb <i>et al.</i>	India – New Delhi	October 9–21
Genomics, proteomics and bioinformatics (Joint ICRO/UNESCO/EMBO Course)	J.E. Allende <i>et al.</i>	Chile – Santiago	October 11–23
Calcium signalling, with special attention to cell motility and the cytoskeleton (Joint ICRO/UNESCO/EMBO Course)	J.R. Sotelo <i>et al.</i>	Uruguay – Montevideo	October 16–29
Functional microscopy of host pathogen interactions	G. Griffiths <i>et al.</i>	South Africa – Cape Town	November 18–30
Microarray technology: Production and applications	L.M. Teran <i>et al.</i>	Mexico – Mexico DF	November 20–26

**practical courses 2005  
outside Europe**

<b>lecture courses 2005 Europe/EMBC</b>	Channels and transporters	L. DeFelice B. Kanner	I – Erice, Sicily	May 31 – June 6
	Cellular and molecular biology of membranes (Joint FEBS/EMBO Course)	A.P. Pugsley <i>et al.</i>	F – Cargèse, Corsica	June 20 – July 1
	Molecular mechanisms in signal transduction and cancer (Joint FEBS/EMBO Course)	J.L. Bos <i>et al.</i>	GR – Spetses	August 15–26
	Protein misfolding, protein modification and age-related diseases (Joint FEBS/EMBO Course)	A. Fersht <i>et al.</i>	GR – Spetses	September 5–15
	Mouse models for human disease	J. Auwerx P. Chambon <i>et al.</i>	F – Bischoffsheim	September 17–23
<b>workshops 2005 Europe/EMBC</b>	The road ahead: Future directions in fundamental and clinical immunology	E. Vivier <i>et al.</i>	F – Marseille	January 13–15
	Meiotic divisions and checkpoints	C. Jessus <i>et al.</i>	F – Cargèse, Corsica	March 16–20
	mRNA 3' Ends: Interconnections with transcription, translation and mRNA turnover	N.J. Proudfoot J.L. Manley	UK – Oxford	March 17–19
	Structural basis of papovavirus biology	P. Amati <i>et al.</i>	I – Siena	April 11–16
	Notch signalling in development and cancer	I. Screpanti <i>et al.</i>	I – Rome	April 21–24
	RNA control of neuronal function	J. Yisraeli <i>et al.</i>	IL – Kfar Blum, Upper Galilee	May 22–26
	Plant stem cells: Independent inventions and conserved mechanisms (Joint Juan March/EMBO Workshop)	C. Gutiérrez <i>et al.</i>	E – Madrid	May 23–25
	Invasive growth: A genetic program for stem cells, cancer, and cancer stem cells	P.M. Comoglio <i>et al.</i>	I – Candiolo (Torino)	May 26–29
	Biology of molecular chaperones. Heat shock proteins in molecular medicine: Misfolding diseases and cancer (Joint FEBS/EMBO Workshop)	M. Zylicz F.U. Hartl	PL – Zakopane	May 28 – June 2

Molecular and population biology of mosquitoes and other disease vectors	K. Louis <i>et al.</i>	GR – Kolymbari, Crete	July 24–31
Regulation of mRNA turnover	C. Moroni <i>et al.</i>	CH – Arolla	August 28 – September 1
Chromosome dynamics and recombination in meiosis	J.L. Santos <i>et al.</i>	E – Madrid	September 13–18
Membrane dynamics in endocytosis (Joint FEBS/ESF/EMBO Workshop)	M.S. Robinson H. Riezman	E – San Felu de Guixols	September 17–22
Cytoskeletal molecular motors (Joint 61st Harden conference/ EMBO Workshop)	J. Kendrick Jones R. Cross F. Buss	UK – Cambridge	September 18–22
The molecular and cellular mechanisms underlying skeletal muscle formation and repair (Joint FEBS/EMBO Workshop)	M. Buckingham J. Melki L. Schaeffer	F – Fontevraud	September 24–29
Centrosomes and spindle pole bodies	M. Knop <i>et al.</i>	D – Heidelberg (EMBL)	September 23–27
The assembly and function of neuronal circuits	P. Caroni <i>et al.</i>	CH – Ascona	September 25–30
Chromosome structural elements: From DNA sequence to function	F. Ascenzioni <i>et al.</i>	I – Rome	September 29 – October 3
Frontiers of molecular biology (EMBO Members Workshop)	M. Zylicz <i>et al.</i>	PL – Warsaw	October 14–18
Principles of self-organisation in living matter	P. Bastiaens <i>et al.</i>	D – Heidelberg (EMBL)	November 4–7
Innate immunity in the lung (Joint Novartis Foundation/Medical Research Council/EMBO Workshop)	S. Gordon G. Brown	South Africa – Cape Town	November 30 – December 2
Molecular physiology of intracellular calcium signalling	R. Padinjat <i>et al.</i>	India – Coorg	November 30 – December 4
Upstream and downstream of Hox genes	R.K. Mishra F. Karch	India – Hyderabad	December 14–17

**workshops 2005  
outside Europe**

## EMBO conferences and symposia 2005

<b>conferences 2005 Europe/EMBC</b>	Chromatin and epigenetics. Alan Wolfe EMBO Conference (Joint EU/EMBO Conference)	G. Almouzni <i>et al.</i>	D – Heidelberg (EMBL)	May 19–22	
	Helicases and NTP driven nucleic acid machines: structure, function and roles in human disease (Joint SNSF/EMBO Conference)	P. Linder S. Kowalczykowski	CH – Arolla	July 5–10	
	The biology of phosphatases	D. Alexander <i>et al.</i>	UK – Cambridge	July 10–14	
	Ciliate molecular biology (Joint FASEB/EMBO Conference)	T. Clark C. Miceli J. van Houten	I – Il Ciocco, Lucca	August 3–8	
	<i>PSEUDOMONAS</i> 2005: A multidisciplinary exploration of current Pseudomonas research (Joint FEMS/EMBO Conference)	A. Filloux <i>et al.</i>	F – Marseille	August 27–31	
	Protein synthesis and translational control	M. Hentze <i>et al.</i>	D – Heidelberg (EMBL)	September 13–18	
	Nuclear structure and dynamics	G. Cavalli <i>et al.</i>	F – La Grande Motte	September 24–28	
	Nuclear receptors: From chromatin to disease	J. Schwabe <i>et al.</i>	I – Lake Garda	September 29 – October 1	
	<b>joint EMBO/ESF symposia 2005</b>	Three-dimensional sensory and motor space: Probabilistic mechanisms of learning and development in sensori- motor systems	D. Wolpert <i>et al.</i>	E – San Feliu de Guixols	October 8–13
		Probing the molecular basis of protein function through chemistry: Scope of chemical protein synthesis	M. Engelhard <i>et al.</i>	E – San Feliu de Guixols	October 29 – November 3
Comparative genomics of eukaryotic microorganisms: Eukaryotic genome evolution, approaches with yeasts and fungi		J.-L. Souciet <i>et al.</i>	E – San Feliu de Guixols	November 12–17	

## other EMBO events 2005

Fellows Meeting	J. Taplick A. Visser-de Matteis	D – Heidelberg (EMBL)	June 17–21	<b>fellowship programme 2005</b>
Laboratory Management Course (Course1, Part I)	G. Wallon K. Piggott	D – Heidelberg	January 27–29	<b>young investigator programme 2005</b>
Laboratory Management Course (Course2, Part I)	G. Wallon K. Piggott	D – Heidelberg	January 20–22	
EMBO/HMI Meeting	G. Wallon K. Piggott B. Vertessy	H – Budapest	February 7–9	
Laboratory Management Course (Course1, Part II)	G. Wallon K. Piggott	D – Heidelberg	April 15–16	
Laboratory Management Course (Course2, Part II)	G. Wallon K. Piggott	D – Heidelberg	April 22–23	
Young Investigator Meeting	G. Wallon K. Piggott	D – Heidelberg (EMBL)	June 22–23	
3rd Symposium: Quantitative Biology	G. Wallon P. Bastiaens B. Schwappach K. Piggott	D – Heidelberg (EMBL)	June 24–26	
Young Investigator PhD Course	G. Wallon K. Piggott	D – Heidelberg (EMBL)	September 4–11	
4th International Teachers Workshop	A. Moore S. Bendiscioli	D – Heidelberg (EMBL)	May 13–14	<b>science &amp; society programme 2005</b>
Media Workshop	A. Moore S. Bendiscioli	D – Heidelberg (EMBL)	June 18	
Special Session on Science & Society during the EMBO Members Workshop 'Frontiers of molecular biology'	A. Moore S. Bendiscioli	PL – Warsaw	October 17	
6th EMBO/EMBL Conference on Science and Society: Science and security	A. Moore S. Bendiscioli H. Stefánsson	D – Heidelberg (EMBL)	October 28–29	



**European Molecular  
Biology Organization**

---

Meyerhofstr. 1  
D-69117 Heidelberg  
Germany

phone +49 6221 8891 0  
fax +49 6221 8891 200

embo@embo.org  
www.embo.org



**European Molecular  
Biology Conference**

---

Meyerhofstr. 1  
D-69117 Heidelberg  
Germany

phone +49 6221 8891 111  
fax +49 6221 8891 230

embc@embo.org  
www.embo.org/embc

**planning & co-ordination of production**

Lindsay Johnson, Uta Mackensen, Lynne Turnbull

**photos & photo editing**

Maj Britt Hansen, Uta Mackensen, Udo Ringeisen,  
Marietta Schupp, Volker Wiersdorff, private

**layout, illustrations, cover**

Uta Mackensen

**print**

MERA DRUCK Druckerei GmbH  
Sandhausen, Germany