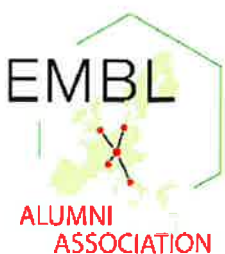




The first EMBL Alumni Association Reunion: EMBL yesterday, today and tomorrow



EMBL Heidelberg, November 26-28, 2004

Programme

Friday, 26 November 2004

14:00	Registration	18:30 - 19:00	Coffee break
16:00	Wine and cheese reception with EMBL Staff	19:00 - 19:30	Nadia Rosenthal <i>From mouse to man: building models of human physiology and disease</i>
Session I: EMBL Today		19:30 - 20:00	Jan Ellenberg <i>Quantitative temporal and spatial analysis of nuclear structure in the cell cycle</i>
17:00 - 17:15	Angus Lamond <i>Introduction by Session chair</i>	20:00 - 20:15	Anne Ephrussi <i>EMBL International PhD Programme</i>
17:15 - 18:00	Fotis C. Kafatos <i>A decade at EMBL: a retrospective and a look forward</i>	20:30	Dinner in the Canteen
18:00 - 18:30	Matthias Wilmanns <i>EMBL Hamburg's perspective: an integrated centre for structural biology at PETRA-III</i>		

Saturday, 27 November 2004

Session II: Activities and Aims of the Alumni Association		Session III: Science and Society Between stem cell research and preimplantation diagnostics: the status of the embryo in our societies	
09:00 - 09:15	Giovanna Bergamini and Colin Dingwall <i>Introduction by Session chairs</i>	16:00 - 16:15	Sabine Hentze <i>Introduction by Session chair</i>
09:15 - 09:45	Angus Lamond <i>Review of Alumni Association Activities</i>	16:15 - 16:45	Halldór Stefánsson <i>Science and Society: an evolving relationship</i>
09:45 - 10:15	Sarah Sherwood <i>EMBL support of the Alumni Association</i>	16:45 - 17:30	Jackie Leach Scully <i>Why do we care about the moral status of the embryo?</i>
10:15 - 10:30	Coffee break	17:30 - 17:45	Coffee break
10:30 - 10:45	Johan Ledin <i>Recipient of the EMBL Alumni Association Fellowship</i>	17:45 - 19:00	Panel discussion Jackie Leach Scully Dietmar Mieth Jeantine Lunshof Anthony Ho
10:45 - 11:15	Renata Stripecte <i>Local chapters</i>	20:00	Dinner and dancing at the Scottish Ceilidh
11:15 - 11:45	Heidi Noack <i>EMBL Endowment Fund</i>		
11:45 - 12:00	Discussion		
12:00	Buffet lunch and poster session		
14:00	Local Chapter meetings		

Sunday, 28 November 2004

Session IV: EMBL Yesterday		11:00 - 11:30	Angus Lamond <i>Nuclear dynamics: the ins and outs of the nuclear proteome</i>
09:00 - 09:15	Noreen Murray <i>Introduction by Session chair</i>	11:30 - 12:00	Lennart Philipson <i>EMBL from nursery school to adolescence</i>
09:15 - 09:45	Konrad Müller <i>The good old days</i>	12:00 - 17:00	Excursion (Lunch and a concert performed by EMBL musicians at the Palais Prinz Carl, Heidelberg)
09:45 - 10:15	Riccardo Cortese <i>From liver genes to genes to deliver</i>	17:00	Departure
10:15 - 10:30	Coffee break		
10:30 - 11:00	Annalisa Pastore <i>Towards a structural understanding of neurodegenerative diseases</i>		

Friday, 26 November, 2004

Session I: EMBL Today

Session chair: Angus Lamond

Fotis C. Kafatos

Director General, EMBL

A decade at EMBL: a retrospective and a look forward

EMBL has seen many changes over the past decade, including the creation of new units and Outstations, a considerable enhancement of its core missions in the areas of services and visitors, technology transfer and the International PhD Programme, partnerships and science and society. The Laboratory underwent an extremely interesting exercise to formulate its current Scientific Programme, with focus on functional genomics, and a major outline for the future – the Strategic Forward Look – which will emphasize systems biology. In spite of many challenges, EMBL has managed to secure the funding necessary to maintain its position as a center of excellence and a world leader in the molecular life sciences. And it has continued to seed Europe with alumni whose status and excellence demonstrate that the principles embodied in EMBL will continue to hold true as the life sciences develop even more rapidly over the years to come.

Fotis C. Kafatos has been Director General of the EMBL since 1993. Born in Crete, Greece, he studied at Cornell and then Harvard, where he joined the faculty in 1965 and was a full Professor from 1969 to 1994. In parallel, he served as adjunct Professor of Biology at the University of Athens from 1972 to 1982, Founder and Director of the Institute of Molecular Biology and Biotechnology at the Research Centre of Crete from 1982 to 1993, and since 1982 as adjunct Professor of Biology at the University of Crete. His scientific accomplishments include bringing molecular approaches to the study of development and pioneering analyses of the molecular evolution of gene families in insects, including the first demonstration of conserved developmental regulatory elements between distant animals. He was the initiator of the *Drosophila* genome project and has helped change the field of malaria research by leading the development of molecular approaches to understanding the interactions between *Anopheles* and *Plasmodium*. He helped coordinate the *Anopheles* genome sequencing project and led its subsequent utilisation in functional genomic analyses. He is active in efforts to promote research and scientific education in the scientifically less privileged parts in Europe and in the developing world.

During his leadership of EMBL, three new branches of EMBL have been established very successfully: the EBI in Hinxton, the Mouse Biology Programme in Monterotondo, and the Developmental Biology Unit in Heidelberg. He has solved challenging political and funding problems and integrated EMBL much more effectively into the scientific strategies of Europe. He has built up the core facilities of EMBL, substantially expanded PhD training and opportunities for visitors, and introduced an institutional Partnership scheme that promote the molecular life sciences in Europe. He has introduced a proactive and effective technology transfer and a Science and Society program, and has begun an Endowment Foundation to support innovation at EMBL. He has also played an active role in EIROforum, a new coordinating body of the 7 European large intergovernmental research facilities. He has served on many senior science policy bodies and advisory committees of international scientific centers and organisations and received numerous medals, honorary degrees and professorships and memberships in 7 Academies, including the National Academy of Sciences, USA, the Royal Society of London, the French Academy of Sciences and the Pontifical Academy of Sciences.

EMBL Hamburg's perspective: an integrated centre for structural biology at PETRA-III

In its 30th anniversary the Hamburg Outstation of the EMBL enters another transition phase, both in research and in the provision of new infrastructures. While in the past most of the research projects have been focused on single protein chains or small complexes, our attempts to make our research tools available for the structural exploration of large(r) structural components from entire living systems makes it mandatory to have state-of-the-art facilities for the preparation, characterisation and crystallisation of available biological samples. Therefore, we have started to systematically upgrade our facilities both with the support of EMBL and by participation in a number of "structural proteomics"-oriented Integrated Projects funded by the EU. For instance, this emerging pipeline is now routinely used for a structural proteomics project on targets from *Mycobacterium tuberculosis*. Alongside these efforts, we and others are moving towards some of the most complex molecular assemblies such as titin, which is known as the third filament system in striated and cardiac muscle sarcomeres. The transition in research activities is paralleled by the planned movement of synchrotron beamline facilities from the present "working horse" DORIS-III to the PETRA-III storage ring, which will be converted into a dedicated synchrotron device by DESY in Hamburg. PETRA-III is expected to become a world-class source in terms of optical and energy parameters. Instead of providing separate beamlines, our concept is for an "Integrated Centre in Structural Biology" with a core of three dedicated beamlines in protein crystallography and small angle scattering of biological material and a shared activity in X-ray absorption spectroscopy.

Matthias Wilmanns received his Ph.D. from the University of Basel, Switzerland, in the field of X-ray crystallography of enzymes involved in the tryptophan biosynthesis pathway (1990). He worked as postdoctoral fellow with David Eisenberg at UCLA (1991-1993) and with Matti Saraste at EMBL (1993-1994). In 1995 he became a staff scientist at EMBL, and in 1997 he was appointed group leader and Head of the EMBL Hamburg Unit. His present research interests are in structural/functional characterisation of members of the calcium/calmodulin protein kinases, transcription factors of the POU family, the giant muscle protein titin and protein import into peroxisomes. Together with other faculty members from EMBL-Hamburg he is involved in a number of structural proteomics initiatives.

From mouse to man: building models of human physiology and disease"

The EMBL Mouse Biology Programme in Monterotondo was established to capture new opportunities in mouse functional genomics, and to apply current advances in mouse genetic manipulation to biomedical problems. The Programme has expanded from an original emphasis on developmental mechanisms to exploration of adult mammalian physiology and pathology, with ongoing research in developmental neurobiology, genetic and pharmacologic manipulations of behaviour, stem cell biology, inflammation and regenerative processes. More accurate animal models of human diseases will provide the necessary reagents and technologies for application of basic research in the mouse to advanced clinical diagnosis and treatment.

Matthias Wilmanns

Head of the European
Molecular Biology Laboratory
Outstation in Hamburg,
Germany

Nadia Rosenthal

Head of the EMBL Mouse
Biology Programme,
Monterotondo, Italy

Professor Nadia Rosenthal is Head of the European Molecular Biology Laboratory Outstation in Monterotondo (Rome) Italy, which houses the EMBL Mouse Biology Programme. She moved to EMBL in 2001 from Harvard Medical School, where she directed a biomedical research laboratory at the Massachusetts General Hospital and served as an editor at the New England Journal of Medicine. Professor Rosenthal is a member of EMBO and the European Group on Life Sciences, is President of the International Society of Differentiation and has been awarded the Ferrari-Soave Prize in Cell Biology. She has served on numerous grant review committees, advisory panels and editorial boards and currently holds a visiting Professorship at the University of Western Australia. Professor Rosenthal's laboratory has a longstanding interest in developmental genetics of skeletal muscle and heart with a parallel focus in the molecular biology of ageing and stem cell-mediated regeneration.

Jan Ellenberg

Group Leader, Gene Expression and Cell Biology and Biophysics Programmes, EMBL Heidelberg

Quantitative temporal and spatial analysis of nuclear structure in the cell cycle

Live cell imaging technology using fluorescent probes has revolutionized our insight into cellular dynamics. Nevertheless, we are just starting to develop the tools to analyze complex processes in live cells quantitatively to enable their analysis by mathematical modeling. The dynamic changes in the structure and composition of the nucleus during cell division provide a good example of a biological problem with high complexity in both space and time. Higher eukaryotic cells dramatically reorganize nuclear and cytoskeletal organization to partition chromosomes to the two daughter cells. Nuclear membranes that surround chromosomes in interphase are replaced by cytoplasmic spindle microtubules. This process of nuclear envelope breakdown commits a cell to M-phase and is intimately linked to spindle assembly. After nuclear rupture, the spindle organizes the condensed chromosomes in the metaphase plate and segregates them to the daughter cells where new nuclear envelopes then form around them. We have used advanced confocal fluorescence microscopy to develop quantitative assays for these processes in live cells and developed simple mathematical models for their analysis. Multi-color 3-D time-lapse imaging combined with quantitative time-space reconstruction (4D imaging) allows us to measure subcellular concentration changes and fluxes between compartments, data which can be analyzed by compartmental modeling. In addition, 4D imaging can be combined with fluorescence photobleaching methods. Pattern bleaching allows us to impose precise labeling geometries on amorphous cellular structures to quantitate structural dynamics such as deformations of the nuclear envelope and reorganization of chromosomes. Fluorescence recovery after photobleaching and photoactivation analyzed by diffusion-reaction models allow measurements of protein diffusion and residence times of binding interactions. These approaches illustrate how we can address complex and dynamic cellular processes such as cell division quantitatively in living cells.

Jan Ellenberg joined the EMBL as an interdisciplinary Group Leader (Gene Expression and Cell Biology and Biophysics Programmes) in 1999. Prior to joining EMBL, he completed his PhD and did postdoctoral research with Jennifer Lippincott-Schwartz at the National Institutes of Health (NIH) in Bethesda, USA. His research focuses on the functional dynamics of nuclear structure during the cell cycle.

Anne Ephrussi

Associate Dean of Graduate Studies, EMBL Heidelberg

EMBL International PhD Programme

The EMBL International PhD Programme (EIPP) has become one of the leading doctoral training programmes in Europe and world-wide, and in recognition of its high quality, has been granted the right to award its own PhD degree. The majority of EIPP graduates now receive their PhD degrees jointly awarded by the EMBL and one of its current 18 Partner Universities.

Its deep commitment and involvement in training at all levels has recently led EMBL to establish the EMBL International Center for Advanced Training (EICAT). EICAT will coordinate and promote existing EMBL-wide training activities, including the newly established Postdoctoral Programme, Scholars' Programme, and Collaborative Training Programme.

Saturday, 27 November, 2004

Session II: Activities and aims of Alumni Association

A measure of the quality of a research institute is its ability to produce successive generations of inspirational scientific leaders and teachers. For example, Jim Watson has always been proud of the success of the Cold Spring Harbor Laboratory in terms of the number and quality of alumni who have moved on to establish excellent research laboratories of their own and bring their experience of working in a top rank laboratory to a wider scientific community. One key element in this process is the existence of an active alumni association acting as a focal point for many types of contact, not just scientific, which enables people to communicate with a large group of individuals who are united by a shared experience. The Alumni Association therefore has the potential to develop into a body with significant power to influence scientific direction and opinion across a wide geographical and cultural arena. It also has the potential to promote the best interests of science and represent science to a wider community and act as an ambassador for science in society. All of these are particularly true for the EMBL Alumni Association as its members are drawn from different member countries and move out from EMBL to continue their work even further a field. Some individuals leave science and carry their EMBL experience into the areas of science policy and administration, generating a uniquely broad body of experience within the Alumni. As a member of the Alumni Association Board I would hope to see the Association provide a very special opportunity for members to gain from the mutual support of the extended network which the association provides. – Colin Dingwall

Session chairs:

Giovanna Bergamini

Senior Scientist,
Cellzome AG, Heidelberg

Colin Dingwall

Assistant Director,
GlaxoSmithKline, Harlow, UK

Review of Alumni Association activities

The EMBL Alumni Association was formed with two major goals in mind. First, to help Alumni to keep in touch and to assist them and help them to develop their respective careers. Second, to inform alumni about what is happening at EMBL and to allow them to contribute to the future development of EMBL. I believe that both of these goals are equally important. I would also emphasise that the Association represents all past alumni of EMBL, including members who have worked at the Outstations as well as at the central laboratory here in Heidelberg and including technical, administrative and support staff as well as former students, postdocs and group leaders. Indeed, we even welcome former Director Generals to our ranks and in this regard we look forward to recruiting a new member in this category in 2005! We have very deliberately taken a broad and inclusive view about what constitutes being an "EMBL alumnus" and we are very keen to involve representatives of all categories of alumni in the organisation of the association and in the planning of its future activities.

Over the past four years considerable efforts have been made to contact past EMBL staff and build a database of alumni. Sarah Sherwood has done an excellent job in organising the Alumni Association and both she and other staff at EMBL have put in a lot of hard work to build up the association and to communicate its activities through newsletters and via the EMBL webpages. On behalf of the Alumni Association I would like to take this opportunity to thank Sarah and all of her colleagues for their help and support! Sarah will also speak to you later this morning about the current alumni activities she is involved with at EMBL.

There are three topics I'd like to mention briefly today. First, and most importantly, "Participation". I want to remind everyone that the development and success of the alumni association is entirely in the hands of you, the alumni. I encourage all of you to take an interest in the association and to consider devoting some of your time and effort towards helping to propose, plan and carry out alumni activities. Second, is the "F" word. Funding. How do we raise money to help us to support alumni activities? You will hear this morning from Johan Ledin, a postdoctoral fellow at EMBL sponsored by the Alumni Association thanks to funding provided by

Angus Lamond

Professor of Biochemistry and
Wellcome Trust Principal
Research Fellow,
University of Dundee, UK

the Swedish Foundation for Strategic Research, an initiative that we owe to Lennart Philipson. We need to think constructively about how to find more sources of funding that can be deployed to support other strategic initiatives and we need your input to prioritise what those initiatives should be.

Third, "Interaction". In my view the whole point of the Alumni Association is to promote many types of interactions. Interactions between alumni in member countries for example, which is the purpose of the "Local Chapters" scheme that you will hear about next from Renata. Interactions also between alumni and EMBL of course, and we are interested in exploring ways in which the alumni can interact with the EMBL laboratories, facilities and outstations to our mutual benefit. Last but not least, interactions between all of us at this meeting. This is the ideal opportunity to discuss your ideas and suggestions with myself and the other members of the board and our opportunity to persuade you to stand for the board at the next election.

Renata Stripecke

Assistant Professor,
UCLA, California, USA

Local chapters

In this session we will outline the activities and goals of the local chapters initiatives. Renata Stripecke will report on some of the first experiences she has had in establishing a US chapter. We will also learn of Juan Valcárcel's experience in setting up a chapter in Spain and Portugal.

Discussions on local chapters will continue in organizational meetings to take place at 2 pm today. If you are interested in learning about alumni initiatives in your area, please meet in the Operon.

Sarah Sherwood

Associate Information Officer,
Office of Information
and Public Affairs
EMBL

EMBL support of the Alumni Association

Did you know that there are currently more than 3,500 EMBL alumni throughout the world? Most people who've spent a part of their careers at EMBL still feel a strong attachment to the Laboratory and would like to keep in touch. Some would like to take an active role in its future growth and development. The list of EMBL alumni represents an impressive group that has enormous potential to make a significant difference in science, particularly in Europe.

At their last reunion in 1999, EMBL alumni decided to establish an association with the aim of creating a network of scientists with shared interests and experiences, who could forge ties between the EMBL and laboratories throughout Europe (and beyond), and ultimately help promote scientific exchange in the field of life sciences and related areas. Five years on, the network has grown significantly - nearly 900 people have joined the association - and many important initiatives and activities have been undertaken. While the EMBL Alumni Association is an independent, not-for-profit organization run by an elected board and its membership, EMBL continues to provide support to help the association achieve its goals. In addition to providing administrative and legal assistance, EMBL helps to maintain and expand the network by gathering information on the current whereabouts and activities of EMBL alumni. Through our communications activities (including newsletters, bulletins, and reunions such as this one) we keep alumni abreast of developments within the association and at EMBL. We also provide access to a growing list of resources available via the association website.

Here we'll take a look at some alumni statistics, go on a tour of the association's website, and explore ways in which EMBL alumni can take an active role in participating the association's activities. We'll also ask you for your input on what else we might do, or what we might do better, for the alumni community.

Heidi Noack

Endowment Fund, EMBL

EMBL Endowment Fund

Heidi will introduce the EMBL Endowment Foundation (EMBLEF). She will explain the structure and the mechanism of EMBLEF, its goals, and which projects it supports. She will also give an update on the latest development of EMBLEF, and why EMBLEF is very much of interest to the Alumni Association.

Session III: Science and Society – Between stem cell research and preimplantation diagnostics: the status of the embryo in our societies

Session chair:

Sabine Hentze

Human Geneticist, Heidelberg

Science and Society: an evolving relationship

The life sciences have an enormous potential for further development and practical applications. However, a popular consensus needs to be developed around questions of how to assess and deal with the diverse repercussions of that development. More than ever, there is a need for interdisciplinary dialogue to inspire synthetic insights and a common worldview. The new ways in which science is now being applied to the production of knowledge and economic wealth must be carefully adjusted to public interests and the value system in each society. It is the common responsibility of all, scientists as well as non-scientists, to engage in an ongoing process of carving out a shared understanding of science.

The Science and Society initiative was established at EMBL in 1998. Its principal aim is to promote a better and broader understanding of the growing social and cultural relevance of the life sciences. We organize a variety of activities and events where members of our scientific community, scholars from other disciplines, as well as members of the public, meet to engage in a dialogue.

My talk at the EMBL alumni meeting will have two parts. First, I will present a number of arguments why it is important for the life science community of the moment to actively engage in an ongoing reflection and debate about social and ethical issues, and then, in the second part, I will present the various ways and means that we have developed over the last six years at EMBL towards that end.

Háldór Stefánsson was born in Reykjavík, Iceland. Two decades later he went on to study anthropology, first at the University of Copenhagen, and then at the University Paris VII where he finished his doctoral studies in 1981. He moved to Japan the same year to carry out comparative research at the University of Osaka on death rituals and ancestor worship in Japan, Taiwan, and South Korea. In 1985, he became Associate Professor of anthropology in the Department of International Studies at Osaka Gakuin University, and then a full Professor in the same Department from 1990. Halldór has led the Science and Society initiative at the European Molecular Biology Laboratory since April, 1998.

Halldór

Stefánsson

Head of EMBL's Science and Society Programme

Why do we care about the moral status of the embryo?

Jackie Leach Scully was born Singapore in 1961, and educated in London. She took a biochemistry degree at the University of Oxford and a PhD on oncogenesis in mouse mammary epithelium at the University of Cambridge, followed by postdoctoral research at the Swiss Institute for Experimental Cancer Research (ISREC), Epalinges, and the Institute of Physiology, University of Basel. She was Associate Lecturer in Biology with the Open University (Europe), and currently heads research projects on gene testing and on preimplantation genetic diagnosis at the *Arbeitsstelle für Ethik in den Biowissenschaften*, University of Basel, and the Institute for Policy, Ethics and Life Sciences, University of Newcastle. She has acted as consultant for the pharmaceutical industry and is Associate Tutor at Woodbrooke Quaker Study Centre, Birmingham, UK. Vorstand member of *Schweizerische Gesellschaft für Biomedizinische Ethik*, member of the International Association for Bioethics and the Feminist Approaches to Bioethics Network. Her original PhD was in molecular biology. Since 1996, she has worked primarily in bioethics, especially in the areas of the new genetic and reproductive technologies. Her particular research interests are in disability and ethics of the body, feminist ethics, and comparing lay and professional approaches to bioethical issues.

Jackie

Leach Scully

Arbeitsstelle für Ethik
in den Biowissenschaften
University of Basel, Switzerland,
and the Institute for Policy,
Ethics and Life Sciences,
University of Newcastle, UK

Panel discussion

Dietmar Mieth

Prof. Moral Theology, Member of Bioethics-Commission of German Bishops' Conference, Chair of Scientific Council "Mensch-Ethik-Wissenschaft", Berlin, Germany

Successive animation or human dignity: the status of the embryo in religious and secular debates

Born in 1940 in Berlin. Studies in Theology, German languages and literature, and Philosophy in Freiburg, Trier, Munich and Würzburg. From 1974-1981 he was Professor of "Moral theology" at the University of Fribourg (Switzerland). Since 1981 he has been professor of Theological Ethics at the Catholic Theological Faculty of the University of Tübingen. Prof. Mieth has been Visiting Professor in Freiburg/Switzerland, Zürich and Nijmegen. Since 1986 he has been active in the establishment of an interdisciplinary Center, "Ethics in Science," at the University of Tübingen; from 1990-2001 he served as the center's head. From 1994-2000 he was a member of the interdisciplinary advisory group - "Ethics in science and in new technologies" of the European Commission. From 1996 to 1999 he headed the "European Network for Biomedical Ethics." From 1998 to 2002 he served in the Ethics council of the BMG; since 2003 he has been a member of the investigative committee "Ethics and law in modern medicine" of the German Parliament.

Jeanine Lunshof

Department of Clinical Genetics and Human Genetics, Section Community Genetics, and University Medical Center, Center of Ethics and Philosophy, University of Amsterdam

Preimplantation interventions: care for kids

Jeanine Lunshof is a philosopher engaged in bioethics. Born in the Netherlands, she studied philosophy and oriental studies in Hamburg, then philosophy and health law in Amsterdam. As a State Registered Nurse, she has experience of oncology nursing at the Clinic of the Netherlands Cancer Institute, Amsterdam. She has also worked as ethical consultant for the Dutch Alliance of Parent and Patient Organisations dealing with Genetic and Congenital Disorders (VSOP), and as an advisor to the European Alliance of Genetic Support Groups. Since returning to Germany in 1990, she has carried out projects concerning aspects of human genetics at the universities of Bamberg, Heidelberg and Düsseldorf. Her European-based projects include Biomed I and II as well as the Biotech-programme. Until recently she worked as research assistant at the Berlin-Brandenburg Academy of Sciences and Humanities on a project dealing with conceptual issues in health care. Her current work is focussed on the ethical and bio-political aspects of pharmacogenomics.

Anthony Ho

Director of Hematology, University of Heidelberg, Germany

The continuing saga of stem cell therapy: facts and myths

Prof. Dr. med. Anthony D. Ho. has been the Chair of the department of Medicine V (Hematology, Medical Oncology and Rheumatology) of the University of Heidelberg since April 1998. He attended Medical School at the University of Innsbruck, Austria, and at the Ruprecht-Karls-University of Heidelberg and graduated in 1974. Thereafter he received training in internal medicine, hematology and medical oncology at the Medical Center of the University of Heidelberg. In 1990 he accepted a position as a Full Professor at the University of Ottawa, Canada, and founded a cancer research center and a bone marrow transplant unit at the Northeastern Ontario regional Center, Sudbury, Ontario, Canada. Accepting an offer as Professor of Medicine at the University of California, San Diego (UCSD), he relocated there in 1992. Subsequently, he was appointed Co-division Chief of Hematology-Oncology at the ICSD from 1994-1998. His tenure at UCSD ended in April 1998 when he accepted his present position as Chair of the Department of Medicine V in Heidelberg. The focus of his research has been the behavior and biology of marrow-derived stem cells and their applications in clinical transplantation. He has built up blood stem cell transplantation units at the University of Heidelberg, the Cancer Research Center in Sudbury and at UCSD. He is a member of the Heidelberg Academy of Sciences, and the National ethics Commission for Stem Cell Research of the Robert-Koch Institute, Berlin. He received the title of honorary Professor from Tongji Medical University in Wuhan, China, in October 2003.

Join us for a Scottish Ceilidh and Burns Night supper

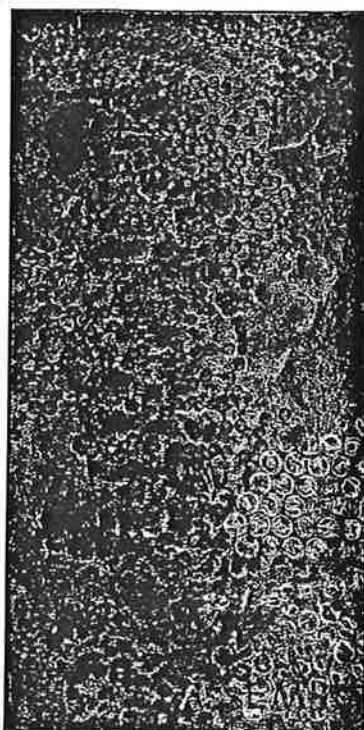


- Whisky tasting
- Traditional Burns Night Supper
- Holy Wullies Prayer
- Auction (see below)
- Heidelberg and District Pipes and Drums
- Ceilidh (led by the Heidelberg Scottish Country Dancers)
- Disco from 24:00

...in the canteen starting at 8 pm

...and don't forget to take part in the fundraising auction!

Place a bid on these two paintings and help support future activities of the EMBL Alumni Association e.V.



"Assembly"
acrylic on canvas
50 x 100 cm
2004



"Activity"
Silkscreen and
acrylic on paper
50 x 60 cm
2004

Artwork generously donated by professional
artist (and EMBL alumna) Silvia Stabel
www.acryl-malerei-stabel.de

These works will be on display in the Operon foyer during the reunion.

Sunday, 28 November, 2004

Session IV: EMBL Yesterday

Session chair:

Noreen Murray

Professor Emeritus,
Institute of Cell
and Molecular Biology,
University of Edinburgh, UK

Our closing session will have two themes: 1) It will view EMBL from an administrative perspective, initially about its creation and latterly its evolution, or development, during the period of Lennart Philipson, the second Director General. 2) We'll hear about the current scientific work of three Group Leader alumni (1979-1997) – a reflection of the influence of EMBL.

Noreen Murray graduated from King's College London (1956) with a degree in Botany and obtained her PhD (1959) in fungal genetics at the University of Birmingham. She was fortunate to have five postdoctoral years at Stanford in the laboratory of David Perkins, and benefited from the excellent environment for Neurospora genetics, contact with Charley Yanovsky's lab next door, and memorable courses taught by Dale Kaiser. On her return to the U.K. she was in the Botany department, but spent part of her time in L.M.B. with Frank Stahl and acquired first-hand experience with phages. From 1968 to the present, except for a three-year spell (1979-1982) as a Group Leader at EMBL, she has been in the University of Edinburgh. Her research interest has been in restriction enzymes - their technical applications in gene cloning and gene expression, and how they function in bacterial cells.

Riccardo Cortese

President and Scientific
Director, IRBM, Pomezia
(Rome), Italy

Liver genes or deliver genes

A personal account of the transition from basic biology to medically oriented research.

Riccardo Cortese received an MD from the University of Naples, Italy (1968) and a PhD from the University of California at Berkeley (1973). He was a post doctoral fellow and then a staff scientist at the LMD, Cambridge, UK (until 1979). From there he moved to the EMBL where he was a group leader and then Coordinator of the Gene Expression Programme (until 1990). He ended up in Rome, founding the IRBM, of which he is now the President and Scientific Director.

Annalisa Pastore

Group Leader,
MRC, London, UK

Towards a structural understanding of neurodegenerative diseases

In this talk, Annalisa will link her present research with her past experience at EMBL.

Annalisa received her PhD in Naples (Italy) in 1986. During her PhD she spent two years abroad, first at the University of Wisconsin and then at ETH, Zurich in the group of the now Nobel laureate Richard Ernst. She spent two years as a postdoc in Oxford (UK) in the group of Iain D. Campbell. In 1988 she joined EMBL, first as staff scientist and then, from 1992, as Group Leader in the Structure Biology Programme. Since 1997 she has been at the National Institute for Medical Research in London.

Nuclear dynamics: the ins and outs of the nuclear proteome

We are studying the functional organisation of the nucleus in mammalian cells, using a combination of proteomic and in vivo imaging techniques. We are interested in how nuclear factors are organised into different classes of "nuclear bodies". We study how nuclear bodies are assembled and characterise their protein components and dynamic behaviour. As a model system for understanding the structure and function of subnuclear bodies we have characterised nucleoli purified from cultured mammalian cell lines. The nucleolus is assembled around the tandemly repeated ribosomal gene clusters on human chromosomes 13, 14, 15, 21 & 22. It is the site of rDNA transcription, rRNA processing and ribosome subunit assembly. We have collaborated with Matthias Mann and coworkers to analyse in detail the nucleolar proteome using mass spectrometric techniques. Currently, we have assembled a database including over 650 human proteins that stably copurify with nucleoli. For many of these proteins, their location in nucleoli has been confirmed by antibody labelling and/or expression of the cognate YFP-tagged cDNAs in cultured cells. We are using quantitative methods, including both time-lapse fluorescence microscopy and "time-lapse proteomics", to study how the levels of nucleolar factors change in response to alterations in cell growth conditions, metabolic variations and cell cycle progression.

As an undergraduate, Angus Lamond studied molecular biology in his hometown of Glasgow. In 1981 he moved to the MRC Laboratory in Cambridge, where he worked as a graduate student with Andrew Travers, completing his PhD in 1984. Following postdoctoral studies in the US with Phillip Sharp at M.I.T., he moved to EMBL as a group leader in 1987. Angus worked in the Gene Expression Programme at EMBL until the end of 1995, when he left to return to Scotland and join the University of Dundee. He is currently Head of the Gene Regulation and Expression Division in the Faculty of Life Sciences at the University of Dundee. Angus was elected chair of the EMBL Alumni Association board in 2003.

EMBL from nursery school to adolescence

Both EMBO and EMBL are examples of success stories on the European scene. They demonstrate clearly that organizations led by scientists for execution of basic science can achieve wonders and I am honored and proud to have had the opportunity to participate in these activities.

The historical overviews in the reports commemorating the 40th and 30th anniversaries of EMBO's and EMBL's existence focus on the gestation period leading up to the establishment of these important organisations, but some episodes during the formative years of these two centres may also be of interest. Life is, after all, not the days that have passed but the days we remember.

An important growth period in EMBL's history was the decade in the 80s when it tripled its staff, doubled its budget and added 5 new member states. It was an intriguing challenge to nurse and support the growth and the intellectual environment during this period. Scientifically, *Drosophila* was abandoned and reintroduced as a research topic. Cell biology, differentiation and crystallography were strengthened and gene expression, biocomputing and NMR were introduced. Most important was probably the expansion of the training programs at the visitor, graduate, postdoctoral and group leader levels, which all identified an important goal for the EMBL's future activities.

All this could only be achieved through a strict adherence to fixed-term contracts and a system of rolling tenure to assure both rejuvenation and excellence in the recruitment process. The social requirements for the expansion were also recognized with additions of guesthouses, an hotel and a nursery. Even the erection of an auditorium – the operon – was a necessity to establish EMBL as a training centre. This major expansion was totally dependent on all the scientists, the administrators and students during the formative years with a gradually increasing support from the delegates of the member states. So I close with a quote from Goethe: "*The man who occupies the first place seldom plays the principal part.*" I will nevertheless recall some of the happy moments.

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Join us for a celebratory excursion
to the Palais Prinz Carl in Heidelberg
for lunch and a concert by EMBL's own
super-talented musicians.

Sunday, 28 November, from 12 until 5 pm

music@embl concert

with the participation of special guests,
Piko and his Band

part one

Improvisation 1 for alto saxophone, Ryo Noda
alto saxophone, Lukas Neidhard

From the Amelie Poulain soundtrack, Yann Tiersen
piano, Massimiliano Mazza

Humoresque, Dvorak
flute, Maiwen Caudron; piano, Leonie Unterholzer

Piece for violin and cello, Geminiani
violin, Claude Antony; (trombone) Flavio Ubaldini

Mendelssohn, piece for two flutes and piano
flutes, David Westley, Maiwen Caudron; piano, Leonie Unterholzer

part two

Traditional Hungarian village music, Piko and his Band

Gáspár Jékely (violin)

István Horsa (violin)

Márton Eri (viola)

Géza Péntes (cello)

Zsolt Szitkai (contrabass)

Kinga Hajdu (vocal)

Tickets are available from the registration desk for 30 Euros. Transportation provided.

Posters

Jose M. Almendral

Evolution of Parvovirus MVM in mice: capsid mutants and CRM1 interactions

Donato Civitareale

Retinoblastoma protein role in the thyroid-specific activity of Pax 8

Manolis Fanto

Drosophila Atrophia in development and neurodegeneration

Cornelia Fritsch

Chromatin dynamics in the Drosophila nucleus

Heinrich Gausepohl

Automation of Biochemical Protocols

Juan M. Gonzalez-Manas

Interaction of equinotoxin-II with model membranes

Stefan Herr

EMBL Ventures

Richard Jacob

Preliminary analysis of the human saliva proteome

Johan Kemmink

Structure in solution of Chemotaxis Inhibitory Protein of Staphylococcus Aureus

Manfred Koegl

High-throughput yeast two hybrid screening produces a lot of crap

Jörg Langowski

Genome dynamics: single molecule studies and computer simulations

Klaus Lingelbach

A compartment-specific proteome analysis in malaria parasite infected erythrocytes

Åsa Marknell DeWitt

Recombinant Pen a 1 for measurement of sIgE to tropomyosin, a major cross-reactive invertebrate allergen

Marialuisa Melli

Protein interaction and function

John Morrissey

Ecological interactions of fungi

Giovanni Morrone

EHZF: a multi-functional early haematopoietic zinc finger protein
Jean-Christophe Olivo-Marin
Detection and tracking in multidimensional microscopy

Giovanni Paoletta

A web based system for storage, manipulation and analysis of sequence and other biological data

Silke Pichler

Nuclear spacing in the syncytial blastoderm of Drosophila melanogaster embryos

Tina Pietropaolo

Post-transcriptional regulation of genes coding for human ribosomal proteins

Anne Regnier-Vigouroux

Anti-tumour activities of microglia in the brain

Karin Romisch

Interaction of proteasomes with the protein translocation channel in the ER membrane

Petra Schrotz-King

Novel surface antigens of Campylobacter jejuni as vaccine candidates against traveller's diarrhoea

Silvia Stabel

From Science to Art

Maria Luisa Tenchini

Genetics of some human inherited disorders (fibrinogen, FV and FXI deficiencies and ADNFLE)

Willem Tichelaar

The three-dimensional structure of an ionotropic glutamate receptor reveals a dimer-of-dimers assembly

Peter Uetz

Protein interaction networks

Jouko Viitanen

Automated system for cell culturing and analysis using machine vision

Stefan Wiemann

From ORFeome to Biology: A Functional Genomics Pipeline

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The EMBL Alumni Association e.V. would like to thank the following donors for their generous support of this reunion:

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- Manfred Stähle
- WISAG Gebäudereinigung
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