

EDITORIAL

by *Lina Badimon, President of ESCI*

Dear Members of ESCI,

It is for me a pleasure and honour to address this Presidential Editorial for the first time. I was elected President last year in Milan and in compass with the new trends it is a woman who is writing these words. I hope that in the future many other women will follow my steps in a ratio that could really equate women in science and medicine to positions in scientific societies and academia. It is a good start for the new century.

I want to thank the past-president Antonio Pontiroli for his good work, his efforts to strengthen the links with other societies in related fields and secure resources for the ESCI award for the next years. His tenure as President was a good period but not without worries. Our journal kept improving its format and content and the Annual Scientific Meetings of the Society kept organising workshops of excellent quality. He has made history by being the last President of the XXth Century and driving the Society into the 3rd millennium. Antonio ended his Presidency by taking the added task of organising the last Annual Scientific Meeting in Milan. The meeting was a successful one with over 400 participants and well attended workshops. Congratulations. Thanks Antonio.

In tune with the comments on our journal, Jo Marx as Editor-in-Chief should be gratefully acknowledged. The European Journal of Clinical Investigation is a cornerstone of ESCI, and its steady improvement is an asset for the Society.

Councillors from different areas of Europe and with different backgrounds come together to do their best for the Society in our Council meetings. It is a privilege to meet with them and it is a sorrow to have to farewell those who have fulfilled their service time. This year two vice-presidents and the secretary-treasurer will leave the council. Gareth Williams (1996/2000), Edouard Bategay (1996/2000) and Heinrich Schulte (1993/2000) will be ending their terms. We are in debt with them all for their energy and their fruitful comments and discussions about the future and new policies of ESCI. A special word is addressed to Heinrich Schulte who has worked 7 years in different functions on the Council. He could have been a very good President for the Society but he just proposed my name. I am sure I can count on him for advice in the near future. In my name and in the name of ESCI I thank them all for their service. Life in the society continues and New Councillors have been proposed. Three will be elected to initiate their term in Aarhus. They are all excellent candidates. Thus there is no possible 'hit or miss'.

Finances in ESCI are healthy and well and the work of Heirinch Schulte should be again acknowledged. Among other business he has negotiated a new contract with Blackwell, starting January 2000, that greatly benefits the Society. Michael Roden will take the post of Honorary Secretary-Treasurer in Aarhus.

Our meeting in Aarhus, Denmark will be held in a nice, academic setting with a relaxed atmosphere. We will have outstanding lecturers, including the Nobel prize awardee Dr J C Skou. The ESCI Award for Excellence in Clinical Science goes this year to Prof S Ylä-Herttuala from Finland (see below) and we expect to have an excellent lecture on gene therapy. ESCI is very grateful indeed for the generous support of Servier, allowing us to award such a prestigious prize.

Fifteen workshops will be included in the programme and Susan Keiding the President of the local organising committee has worked long hours to prepare the most exclusive and exciting meeting.

Presently, many medical institutions across Europe are debating and trying to solve the gap that exists between clinical and basic research. The solution has been approached by integrating hospitals and research centres into functional units working together. ESCI had anticipated this need for many years now; indeed, it has been the philosophy of bringing basic and clinical scientists and practising physicians together what ESCI is all about. We have to strengthen this way of seeing science even more in the future. The formidable advance of science in the last years has taken us to the post-genomic era that will benefit from a general understanding of biological sciences with research crossing borders between specific fields.

Our Society is a European Society with a rich tradition nurtured in academic values and in the search of excellence. Among our members there are both scientists and clinicians that have bridged that gap between basic science and medicine. We need more members with these characteristics. Please invite colleagues and fellows to become members of our Society. This is important in order to: 1) revitalise the Society and prolong its life with members educated into what ESCI is and should be; and, 2) to have enough membership as to be able to have a voice in the European Union policies regarding medicine and science.

It is true that ESCI has always prioritised quality over quantity but now it is possible to have them both because European science and medicine has reached a peak after years of steady growth.

The new Council with invited experts will have a 'brainstorming' meeting in the fall to draw new lines of work for future years. We will gather in Barcelona while we

have the site-visit for the 2001 Annual Scientific Meeting that will be held there from 2nd – 5th May. Our multidisciplinary society will evolve with the changes of our times and for that we need also to know the needs and likes of you all as members.

ESCI AWARD FOR EXCELLENCE IN CLINICAL SCIENCE 2000

by *Jerôme Rossert, councillor of ESCI*

Each year since 1976, the European Society for Clinical Investigation gives an award to a European scientist under the age of 45, in recognition of a significant and original work within the area of clinical science, as well as in recognition of scientific leadership. This year, the recipient of the ESCI award for excellence in clinical science is Seppo Ylä-Herttuala, who is professor of molecular medicine at the University of Kuopio, in Finland.



Dr Ylä-Herttuala is a graduate of the University of Tampere, in Finland, where he received his medical training as well as his initial scientific training. After spending three years at the University of California, San Diego, where he worked in Dr Steinberg and Dr Witztum's

laboratory, Dr Ylä-Herttuala went back to the University of Tampere in 1991. In 1995, Dr Ylä-Herttuala moved to the University of Kuopio, where he became professor of molecular medicine and established his own laboratory, which is called Gene Vector Laboratory.

Since the end of his medical training, Dr Ylä-Herttuala has been interested in studying the pathophysiology of atherosclerosis. His early work focused on defining the composition of atherosclerotic lesions, and it led him to develop a method to isolate low density lipoproteins (LDL) from human artery wall. During his post-doctoral training, Dr Ylä-Herttuala used this method to show that oxidized LDL exist in human atherosclerotic lesions, which was confirmed by immunohistochemical studies. Dr Ylä-Herttuala then used molecular biology techniques to study the expression of different oxidative and antioxidative enzymes, and of lipoprotein receptors in atherosclerotic lesions. These studies gave rise to a series of papers published mostly in the *Proceedings of the National Academy of Sciences (USA)*, and in the *Journal of Clinical Investigation*, in which Dr Ylä-Herttuala shows that scavenger receptors, 15-lipoxygenase, monocyte chemotactic protein-1, lipoprotein lipase, LDL receptor-related protein, or superoxide dismutase are present within atherosclerotic lesions. In the same time, Dr Ylä-Herttuala developed an assay to measure autoantibodies against oxidized LDL in plasma, which could be a new risk factor for cardiovascular diseases, in non-diabetic patients.

To confirm the key role of 15-lipoxygenase in LDL

oxidation *in vivo*, Dr Ylä-Herttuala performed gene transfer experiments in rabbits, which brought him to the field of gene therapy, and since 1995 Dr Ylä-Herttuala has developed a very successful laboratory focusing on gene therapy, at the University of Kuopio. In his laboratory, Dr Ylä-Herttuala has developed techniques allowing the production of different high-tech vectors, and he has demonstrated their functionality in experimental models. He has also demonstrated, for the first time, that gene transfer can really occur in human atherosclerotic arteries *in vivo*, and in malignant glioma. These experimental studies led Dr Ylä-Herttuala to set up clinical studies focusing on gene transfer in atherosclerotic lesions, and also on gene transfer in patients with malignant glioma. Dr Ylä-Herttuala has currently seven phase I/II clinical trials in progress at Kuopio University Hospital, and more than 100 patients have received gene therapy by Dr Ylä-Herttuala's group. The first results of these trials are already appearing as publications, and in particular a paper showing therapeutic angiogenesis in ischaemic legs after VEGF-adenovirus administration is in press in *Circulation*.

It is with great pleasure that the Council of the European Society for Clinical Investigation announces that Dr Ylä-Herttuala is the winner of the ESCI Award for Excellence in Clinical Science, and we are definitely looking forward to his lecture in Aarhus on May 2000.

34TH ANNUAL SCIENTIFIC MEETING AARHUS, DENMARK

by *Susanne Keiding, Meeting President*

The University of Aarhus, Faculty of Health Sciences and Aarhus University Hospital are honoured to organise the ESCI-2000 Annual Scientific Meeting, to be held during 17-20th May, 2000. The meeting is situated at the Univer-



sity of Aarhus, in the park-like campus depicted in the accompanying picture. The University is near the historical city centre of Aarhus, and is within walking distance of most hotels. The last time this Annual Scientific Meeting was held in Denmark was in the early spring of 1987, at Helsingør, north of Copenhagen. Those of us who were present recall that meeting as having been very special, with a notably high level of scientific discourse, and were

vividly impressed by the rare occurrence sea-ice in the straight of Helsingør. This year, the meeting shall be held in May, a more temperate season. Visitors to Aarhus in late Spring shall enjoy the beauty of the nearby beech forests in their light green spring foliage, and would be well-advised to explore the miles of pristine sandy beaches beside the forest.

The recorded history of Aarhus goes back more than 1000 years. The Vikings called the city AROS, meaning the river mouth. The ancient celtic root 'Ar', meaning river, is found in many river names of western Europe. Contemporary Aarhus has many attractions, including 'The Old Town', an open-air museum, with ancient half-timbered houses rescued from every part of Denmark. We also boast the summer residence of Her Majesty Queen Margrethe II, and the famous Prehistoric Moesgaard Museum, home of the perfectly preserved remains of the Grauballe-man, who died in the 3rd century B.C.

Aarhus is the second largest city in Denmark. Air and rail transportation to Aarhus air is available from Copenhagen and most major cities in Europe. Motorways link Aarhus with Copenhagen (4 hours) and Hamburg (6 hours).

Over the past three decades, the ESCI Annual Scientific Meeting has matured into a multidisciplinary forum for scientists from all over the world, especially those engaged in studies of basic mechanisms of molecular biology and pathophysiology with applications to clinical therapy. The Annual Scientific Meetings provide a mutually beneficial environment for all participants, who can attend general sessions, workshops, or special lectures presented by internationally outstanding scientists. Poster viewing occurs during coffee and lunch breaks. This year, ESCI offers a new Postgraduate Course entitled 'Basic Methods in Molecular Biology', which has been organised by Professors Jérôme Rossert, of Paris, and Ebba Nexø, Aarhus, of Denmark, to be held one day prior to the main scientific meeting.

On behalf of the ESCI Council and the Aarhus Organising Committee, I assure you that we are doing our utmost to make the 34th Annual Scientific Meeting a memorable occasion for fruitful scientific interactions.

For further information about the meeting, and Aarhus and surroundings, please see:
<http://www.pet.au.dk/esci2000>.

35TH ANNUAL SCIENTIFIC MEETING BARCELONA, SPAIN

by Lina Badimon, Local Organiser

On behalf of the European Society for Clinical Investigation (ESCI) and the Spanish Society of Atherosclerosis it is my pleasure to invite you to attend the 35th Annual Scientific Meeting of ESCI that will be held together with the 14th National Congress of SEA. It is my double pleasure because as President of both Societies I expect it to be a scientific success and as President of the Organising Committee I can invite you to my hometown, Barcelona, where the meeting will be held from 2nd – 5th May 2001.

Barcelona is one of the oldest cities of Europe. Its founders chose a beautiful spot by the Mediterranean Sea,

yet close to mountain ridges, valleys and forests. It is tentatively accepted that were the Carthaginians in their way to fight the Roman Empire who founded the post. They did not accomplish a victory over Rome but left behind the seed of the future city of Barcelona. It was formally founded by the Romans who during the reign of Emperor Augustus (27 BC – 14 AD) established the new colony, Barcino. We celebrate our 2000 years of history with joy and strong cultural traditions, heritage, and a great love for art, architecture and science. The attendees to the ESCI Annual Scientific Meeting and the 14th Annual Congress of SEA are more than welcome to our hospitable and warm city.

As we move into year 1 of the XXI century we are full of expectations. We celebrate ESCI's 35th birthday as a Pan-European Society that has integrated clinicians and scientists with genuine interest in uncovering mechanism of disease from West to East, from North to South, without political boundaries. As well, SEA is a young but extremely active Society, founded in 1988, that in its short but productive life has worked through a multidisciplinary membership to set up standards of rigorous research, diagnosis, prevention and treatment of atherosclerosis, risk factors and its clinical complications.

For Barcelona 2001, we are working to put together a programme of interest to us all; that is, to the different delegates of our societies. The unique objective is that through diversity we ought to organise a scientific meeting of the highest standard.

Barcelona 2001

35th Meeting of the European Society for Clinical Investigation

XIV Congreso Nacional de la Sociedad Española de Arteriosclerosis

2-4 May 2001 **2-4 Mayo 2001**

■ ESCI

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I should thank the generous contributions, with unrestricted grants, of the pharmaceutical industries and the European and Spanish agencies that by contributing to the organisation of the meeting, undoubtedly contribute to its success.

I hope that you will actively contribute to the scientific success of the meeting by presenting your work and sharing your knowledge with us. We will be waiting for you in Barcelona with open minds but also with wide open arms and will remain friends forever.

Lina Badimon

President Organising Committee Barcelona 2001

President of ESCI

President of SEA

NEW COUNCILLORS 2000

The Council would like to propose Jacek Jawien and Jérôme Rossert for Vice-Presidency. Michael Roden will succeed Heinrich Schulte as secretary-treasurer. His nomination was already approved last year.

Moreover, the curricula vitae of the candidates nominated for councillorship are listed. The councillors that will resign in 2000 are Heinrich Schulte, Edouard Battegay and Gareth Williams. As usual you can choose between the two candidates per country on the enclosed ballot paper. The ballot paper should be returned immediately to the Central Office of ESCI. You will find the exact instructions on the ballot paper. A simple majority vote is decisive in each case.

council candidates Germany

Christoph Bamberger is 34 years old and received his medical training at the University of Kiel Medical School and is currently a member of Faculty of Medicine as a Clinical Associate in the University Hospital Eppendorf, Hamburg. He is a Board Certified in Internal with a broad aspect in Clinical and Basic Endocrine Research. He received his medical training as a Postdoctoral Research Fellow at the NIH/NICHD in Bethesda, Maryland. Until 1999 he served as a Group Leader at the IHF Institute for Hormon and Fertility Research, University of Hamburg. Christoph Bamberger received the 'Schoeller-Junkmann-Award' of a German Endocrine Society. He focuses his research in various aspects of nuclear receptor function and sensitivity as well as various aspects of the



hypothalamic pituitary adrenal axis. His publication list includes more than 30 original publications in peer-reviewed journals and a number of book chapters. Christoph Bamberger is familiar with the goals of the Society, and has been a member of ESCI for years.

Martin Reincke, 40 years old, is Professor of Internal Medicine, Endocrinology and Metabolism in the Department of Internal Medicine/Endocrinology of the Albert-Ludwigs-Universität Freiburg. Martin Reincke received his education at the university of Cologne and as a Research Fellow 1991-1992 in the Developmental



Endocrinology Branch of the National Institutes of Health, Bethesda. He has a broad experience in clinical research as well as in basic research, there he focuses on the molecular biology of pituitary adenomas and the tumour genesis of adrenocortical adenomas and carcinomas. He has also published work in gene therapy of endocrine tumours and ACTH receptor gene mutation. Martin Reincke has published more than 80 peer reviewed publications and contributed widely to well-known textbooks in Medicine. He is familiar with the goals of the Society and would bring in his continuous support with his organisational and scientific skills and spirit.

council candidates Switzerland

Daniel Hayoz is 43 years old and graduated from Geneva University Medical School. He was trained in Internal Medicine and after obtaining his thesis at the Institute of Biochemistry in Lausanne, he specialised in Vascular Medicine in Bern and Lausanne. He is now head of the Vascular Medicine at the University Hospital in Lausanne. His scientific activities focus on the mechanical properties of conduit arteries and on endothelial function in the context of perturbed flows. The projects are supported by grants from the Swiss National Funds and other foundations.



Georg Noll is 42 years old and graduated from the University of Basel Medical School. He was trained in Internal Medicine at the University Hospital Basel, including extended stays in General Internal Medicine, the Coagulation Laboratory, Clinical Pharmacology, and in the Division of Hypertension. Furthermore, he trained in Cardiology at the Divisions of Cardiology of the Triemli Hospital Zurich and the University Hospital Zurich. Georg Noll spent research fellowships at the Atherosclerosis Research Institute of the University of Southern California in Los Angeles, USA, and at the Department of Neurophysiology at the University of Gothenburg, Sweden. In 1993 Georg Noll was recruited as a Research Associate to the Division of Cardiology at the University Hospital Zurich and was promoted to Senior Consultant in 1996. His scientific activities focus on the role of the sympathetic system in hypertension and cardiovascular disease. The projects are supported by grants from the Swiss National Science Foundation and other sources.



council candidates United Kingdom

Richard Costello graduated in Medicine from the Royal College of Surgeons in Ireland in 1988. After Internal and Respiratory Medicine training in Ireland he spent four years as a clinical and research fellow at the Division of Pulmonary and Critical Care at the Johns Hopkins University in Bal-



timore, Maryland, USA. In 1997 he was appointed as a clinical Senior Lecturer of Medicine, University of Liverpool, as an adjunct Assistant Professor of Medicine at Johns Hopkins. His research interests are on the cell-molecular and clinical mechanisms of the interaction of inflammatory cells with airway nerves.

Peter Grant is 47 years old and graduated in Medicine in 1976 from the University of Bristol Medical School. After a period of basic post-graduate training, which included a year's sabbatical in Lausanne, he was appointed in 1989 to the position of Senior Lecturer and Honorary Consultant Physician with promotion to Professor of Molecular Vascular Medicine in 1996. Research interests include the molecular genetics of thrombosis in relation to heart disease and stroke and clinical interests lie in the management of diabetes mellitus. He is currently Head of the Academic Unit of Molecular Vascular Medicine, which consists of around 35 scientific and clinical research fellows. He is a member of the British Heart Foundation and British Diabetic Association Research Grant

Committees, a frequent reviewer for international scientific journals and he has published in the region of 150 original articles and reviews.



SUMMARY (PRELIMINARY) SCIENTIFIC PROGRAMME 34TH ANNUAL SCIENTIFIC MEETING

Aarhus, Denmark, 17th – 20th May 2000

■ Wednesday 17th May 2000

09.00 – 16.15 postgraduate course on basic methods in molecular biology, organised by *J Rossert and E Nexø*

15.00 – 19.00 registration

19.00 – 21.00 welcome reception, Aula & Collection of Ancient Art, University of Aarhus

■ Thursday 18th May 2000

08.30 – 08.45 opening ceremony

08.45 – 09.30 **Plenary Lecture**
'The cytoplasmic transport of amphipathic molecules' *R A Weisiger* (San Francisco CA, USA)

09.45 – 12.30 workshops (11.00–11.30 coffee break)

1: Molecular aspects of phagocyte biology.
K Lollike

3: Iron and diseases. *S Fargion*

5: T-lymphocytes in chronically intestinal inflammatory processes.
K Kaltoft & J Agnholt

6: Natriuretic peptides – ANP, BNP, CNP and urodilatin.
O Nyvad & E Bjerregaard Pedersen

8: Water balance: Physiology and pathophysiology. *S Nielsen & J Frokiær*

12: Growth hormones – clinical and experimental. *H Ørskov & N Møller*

15: Molecular mechanisms in autoimmune arthritis. *R J Moots*

16: Obesity and its management: from molecules to man. *G Williams*

12.30 – 14.00 lunch/poster viewing/exhibitions

12.30 – 14.00 old ESCI officers lunch meeting

14.00 – 14.45 **Plenary Lecture**

'Identification of the sodium-potassium ATPase pump and its significance' Nobel Laureate *J C Skou* (Aarhus, Denmark)

15.00 – 17.00 workshops (15.45–16.15 coffee break)

1: Molecular aspects of phagocyte biology.
K Lollike

5: T-lymphocytes in chronically intestinal inflammatory processes.

K Kaltoft & J Agnholt

6: Natriuretic peptides – ANP, BNP, CNP and urodilatin.

O Nyvad & E Bjerregaard Pedersen

10: Prevention and treatment of vascular disease. *S Dalby Kristensen,*

E Berg Schmidt, R DeCaterina & S Endres

12: Growth hormones – clinical and experimental. *H Ørskov & N Møller*

15: Molecular mechanisms in autoimmune arthritis. *R J Moots*

16: Obesity and its management: from molecules to man. *G Williams*

18.00 reception and buffet City Hall

■ Friday 19th May 2000

08.30 – 09.15 **Plenary Lecture**

'Neuroendocrine gastrointestinal tumours – diagnosis and treatment'.

B Eriksson (Uppsala, Sweden)

09.30 – 12.30 workshops (10.45–11.15 coffee break)

1: Molecular aspects of phagocyte biology.
K Lollike

5: T-lymphocytes in chronically intestinal inflammatory processes.

K Kaltoft & J Agnholt

10: Prevention and treatment of vascular disease. *S Dalby Kristensen,*

E Berg Schmidt, R DeCaterina & S Endres

16: Obesity and its management: from molecules to man. *G Williams*

12.30 – 14.00 lunch/poster viewing/exhibitions

12.30 – 13.00 Annual Business Meeting ESCI

14.00 – 14.45 Poster Awards 2000, followed by plenary lecture ESCI Award 2000:

'Gene therapy: from basic observations to first clinical trials'. *S Ylä-Herttuala* (Kuopio, Finland)

15.00 – 17.30 poster session subspecialty sessions (16.00 – 16.30 coffee break)

15.00 – 16.00 chaired poster discussion at poster site

• Cardiovascular

- Diabetes/Metabolism/Lipids/Endocrinology
- Gastroenterology/Liver/Nephrology/Hypertension/Neurology/Rheumatology/Immunology

16.30 – 17.30 general oral session of selected posters
19.00 dinner and jazz Stakladen

■ Saturday 20th May 2000

08.30 – 09.15 Plenary Lecture
'Drosophila host defense and the evolution of innate immunity' *J A Hoffman* (Strasbourg, France)

09.30 – 12.30 workshops (10.45 – 11.15 coffee break)

- 1: Molecular aspects of phagocyte biology.
K Lollike
- 4: Neuroimaging in dementia. *A Gjedde*
- 10: Prevention and treatment of vascular disease. *S Dalby Kristensen, E Berg Schmidt, R DeCaterina & S Endres*
- 13: Myocardial energy metabolism with focus on glucose and glycogen utilisation.
T Toftegaard Nielsen
- 14: Inflammatory response to tissue injury.
E Tønnesen
- 17: Diabetic nephropathy

12.30 – 14.00 lunch/poster viewing/exhibitions

14.00 – 17.00 workshops (15.15 – 15.45 coffee break)

- 1: Molecular aspects of phagocyte biology.
K Lollike
- 4: Neuroimaging in dementia. *A Gjedde*
- 7: PET in neuroendocrine tumours. *B Eriksson*
- 10: Prevention and treatment of vascular disease. *S Dalby Kristensen, E Berg Schmidt, R DeCaterina & S Endres*
- 11: Regulation and assessment of bone balance and biomechanical competence.
L Mosekilde
- 13: Myocardial energy metabolism with focus on glucose and glycogen utilisation.
T Toftegaard Nielsen
- 14: Inflammatory response to tissue injury.
E Tønnesen
- 17: Diabetic nephropathy

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FUTURE ANNUAL SCIENTIFIC MEETINGS

2000, 17th – 20th May

Aarhus, Denmark
local organiser: Susanne Keiding
(nb. see programme summary and article in this newsletter)
<http://www.pet.au.dk/esci2000>

2001, 2nd – 5th May

Barcelona, Spain
local organiser: Lina Badimon
(nb. see article in this newsletter)

2002, April

Belgium
local organiser: Patrick Evrard

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