

8th INTERNATIONAL SYMPOSIUM

ON STEM CELL THERAPY & CARDIOVASCULAR INNOVATIONS



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Symposium Director: Francisco Fernández –Avilés

SCIENTIFIC AGENDA



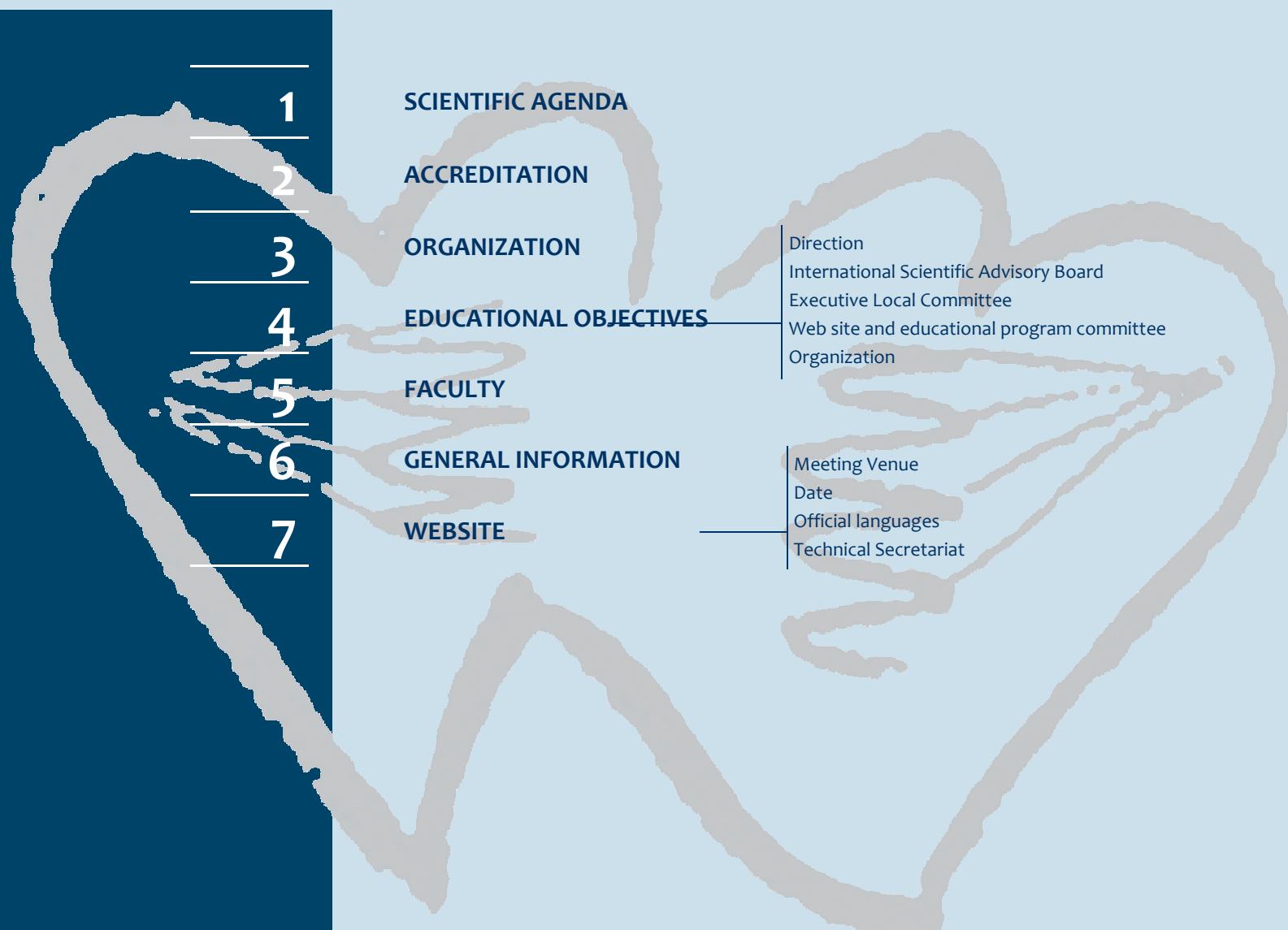
MADRID. SPAIN, JUNE 9th - 10th 2011

SALÓN DE ACTOS CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS (CSIC) C/ SERRANO 117, 28006 MADRID

8th INTERNATIONAL SYMPOSIUM ON STEM CELL THERAPY & CARDIOVASCULAR INNOVATIONS



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“Research on pulmonary hypertension means quality of life. Let’s join efforts towards a cure for this old drama”

Elena Gonzalez Silgado

Vicepresident of the Spanish Foundation against Pulmonary Hypertension



The Eighth international Symposium on Stem Cell Therapy and Cardiovascular Innovations has been organised once again in an attempt to encourage translational research into the application of cell therapy and other innovations in cardiovascular disease and circulatory system. With the aim of considering the findings of research in this area, a comprehensive debate is envisaged in the presence of leading clinical and preclinical specialists both on stage and in the audience. Again the role of young investigators will be particularly acknowledged and emphasised through special sessions. Besides, special sessions have been organized to encourage research and innovation on pulmonary hypertension and end-stage heart failure. As on previous occasions, interaction between experts should lead to a realistic analysis from different viewpoints of progress made and obstacles encountered in the application of biotechnological-based modes of cardiovascular treatment over the past year. Thus, we hope to encourage a free exchange of ideas which may contribute to ensuring the efficacy of future basic research projects and to regulate the development of clinical trials.

This program has been made possible thanks to the effort and enthusiasm of many people whose contribution cannot be overestimated. We sincerely hope to meet the expectations of all those who give up their valuable time to visit Madrid and to take part in the Symposium with us. Thank you and welcome

Francisco Fernández-Avilés

(On behalf of the Organizing Committee)

WEDNESDAY, 8th June 2011

PRE-SYMPHOIUM ACTIVITIES

18:00 - 20:00 Meeting if the BAMI group (The effect of intracoronary reinfusion of bone marrow-derived mononuclear cells (BM-MNC) on all cause mortality in acute myocardial infarction)

Room: Saura I

Hotel Hesperia Madrid

Paseo de la Castellana, 57

28042 Madrid

THURSDAY, 9th June 2011

7:45 - 8:30 **REGISTRATION**

8:30 - 9:15 **WELCOMING**

9:15 - 10:15 OPENING SPECIAL LECTURES

Chairs: John Martin (London, UK)
María Orera (Madrid, Spain)

9:15 - 9:40 **Genetics in our daily clinical practice**
William McKenna (London, UK)

9:45 - 10:10 **Personalised Cardiovascular Medicine. Is genetics the answer?**
Valentin Fuster (New York, USA)

10:15 - 12:00 WHAT'S NEW IN STEM CELL THERAPY FOR CARDIAC REPAIR? - I

Chairs: Manuel Galíñanes (Barcelona, Spain)
Kai C. Wollert (Hannover, Germany)

Discussants: Timothy Henry (Rochester, USA)
Philippe Menasché (Paris, France)
Bernado Nadal-Ginard (Liverpool, UK)
Emerson Perin (Houston, USA)
Felipe Prosper (Pamplona, Spain)
Doris Taylor (Minneapolis, USA)

10:15 - 10:30 **Association between progenitor cells and cardiovascular integrity. What's new?**
Amir Lerman (Rochester, USA)

10:30 - 10:45 **Original versus Modified cells. What's new?**
André Terzic (Rochester, USA)

10:45 - 11:00 **Mechanisms of benefit of cells for cardiac repair. What's new?**
Stefanie Dimmeler (Frankfurt, Germany)

11:00 - 11:15 **Myocardial tissue engineering. What's new?**
Karen Christman (San Diego, USA)

11:15 - 11:30 **Cells on the shelf. Are allogenic the answer?**
Dominique Charron (Paris, France)

11:30 - 12:00 **Panel Discussion**

12:00- 12:30 COFFEE BREAK**12:30 - 13:50 WHAT'S NEW IN STEM CELL THERAPY FOR CARDIAC REPAIR? - II**

| | | |
|--------------|--|---|
| Chairs: | Manuel Galiñanes Kai C. Wollert | (Barcelona, Spain) (Hannover, Germany) |
| Discussants: | Timothy Henry Philippe Menasché Bernardo Nadal-Ginard Emerson Perin Felipe Prosper Doris Taylor | (Rochester, USA) (Paris, France) (Liverpool, UK) (Houston, USA) (Pamplona, Spain) (Minneapolis, USA) |

| | | |
|---------------|--|-------------------|
| 12:30 – 12:45 | Stem cell therapy for STEMI. The new Pan European proposal. The BAMI project. Anthony Mathur | (London, UK) |
| 12:45 – 13:00 | Clinical trials. What's new? Stefan Janssens | (Leuven, Belgium) |
| 13:00 – 13:15 | Lessons from other organs. What's new? Lilach Lerman | (Rochester, USA) |
| 13:15 - 13:30 | Cardiovascular translational research in stem cell therapy. The vision of scientific organizations Nabil Dib | (San Diego, USA) |
| 13.30 – 13.50 | Panel Discussion | |

13:50 - 15:00 Lunch and Poster Exhibition

| | | |
|-----------------|-------------------------------------|--------------------------------------|
| Jury and chair: | Philippe Menasche Felipe Prosper | (Paris, France) (Pamplona, Spain) |
|-----------------|-------------------------------------|--------------------------------------|

In this “Poster Exhibition” research teams involved in the topic of the Symposium will have the opportunity of presenting selected parts of their work to the audience.

A Poster Review Committee will select which the best posters of the session are. At the end of the session, the verdict will be communicated. The winners of the Posters Awards will have to present their work oral presentation the following day in the morning, in the session named “Best Posters Presentation”, when they will receive their prize

15:00 - 16:30 LATE BREAKING CLINICAL TRIALS IN STEM CELL THERAPY - I

| | | |
|---------------|---|---|
| Chairs: | David García-Dorado Bernard Gersh | (Barcelona, Spain) (Rochester, USA) |
| Discussants: | Stefan Janssens Philippe Menasché Emerson Perin Alberto San Roman José Suárez de Lezo James T. Willerson | (Leuven, Belgium) (Paris, France) (Houston, USA) (Valladolid, Spain) (Cordoba, Spain) (Houston, USA) |
| 15.00 – 15.15 | BMMNCs in acute myocardial infarction: update on TIME and LateTIME and the future of the Cardiovascular Cell Therapy Research Network Robert Simari | (Rochester, USA) |
| 15.15 – 15.30 | Repair AMI. 5 years and counting Andreas Zeiher | (Frankfurt, Germany) |
| 15.30 – 15.45 | Selected CD133+ endothelial progenitor cells to create angiogenesis in patients with refractory angina. Preliminary safety results of the PROGENITOR randomized trial Pilar Jimenez-Quevedo | (Madrid, Spain) |
| 15.45 – 16.00 | Safety and early efficacy findings of SDF-1 for the treatment of chronic heart failure Mark S. Penn | (Cleveland, USA) |
| 16.00 – 16.30 | Panel Discussion | |

**16:30 - 18:15 SPECIAL THEMED SESSION:
PULMONARY HYPERTENSION. INNOVATION FOR AN OLD DRAMA**

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|---------------|--|--|
| Chairs: | Pilar Escribano James T. Willerson | (Madrid, Spain) (Houston, USA) |
| Discussants: | Joan Albert Barberá Luis Alonso Pulpon Javier Bermejo José Cortina Marisa Crespo Bernard Gersh | (Barcelona, Spain) (Madrid, Spain) (Madrid, Spain) (Madrid, Spain) (A Coruña, Spain) (Rochester, USA) |
| 16:30 - 16:45 | Pulmonary Hypertension in perspective. The point of view of the expert: Dimensions, concepts, classification and current evidence-based management. Miguel Ángel Gómez-Sánchez | (Madrid, Spain) |

16:45 - 17:00 **Scientific basis of pulmonary hypertension treatment. Is there a role for stem cell therapy?**
Stephen L. Archer (Chicago, USA)

17:00 - 17:15 **Pulmonary hypertension assessment in 2011. What should we wait from imaging innovation?**
Irene M. Lang (Vienna, Austria)

17:15 - 17:30 **Interventional and surgical modalities of treatment of pulmonary hypertension.**
Julio Sandoval-Zárate (Mexico DF, Mexico)

17:30 - 18:00 **Panel discussion**



FRIDAY, 10th June 2011

9:00 - 9:45 BEST POSTER PRESENTATION

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|-------------|---|--------------------------------------|
| Chairs: | Philippe Menasché Felipe Prosper | (Paris, France) (Pamplona, Spain) |
| 9:00 - 9:15 | Prizes-giving | |
| 9:15 - 9:30 | Winner work presentation and discussion | |
| 9:30 - 9:45 | Winner work presentation and discussion | |

9:45 - 11:50 RECENT CONTRIBUTIONS PRESENTED BY YOUNG INVESTIGATORS

| | | |
|---------------|--|--|
| Chairs: | Philippe Menasché Felipe Prosper | (Paris, France) (Pamplona, Spain) |
| Discussants: | Stefanie Dimmeler Bernard Gersh John Martin Bernardo Nadal-Ginard James T. Willerson Kai C. Wollert | (Frankfurt, Germany) (Rochester, USA) (London, UK) (Liverpool, UK) (Houston, USA) (Hannover, Germany) |
| 9:45 - 10:00 | Both cultured and freshly isolated adipose tissue-derived stem cells enhance cardiac function after acute myocardial dysfunction. Eckhard Alt (MD Anderson group. Houston, USA) | |
| 10:00 - 10:15 | Differential effects of progenitor cell population on left ventricular remodelling and myocardial neovascularisation after myocardial infarction Dieter Dauwe (Stefan Janssens' group. Leuven, Belgium) | |
| 10:15 - 10:30 | Identification of new cardioactive paracrine factors by secretome analyses in patients undergoing cell therapy after myocardial infarction. Mortimer Korf-Klingebiel (Kai C Wollert's group. Hannover, Germany) | |
| 10:30 - 10:45 | Differentiation of allogeneic mesenchymal stem cells induces immunogenicity and limits their long-term benefits for myocardial repair Xi-Ping Huang (Ren-Ke Li's Toronto Research Institute Group. Toronto, Canada) | |
| 10:45 - 11:00 | Guided cardiopoiesis enhances therapeutic benefit of bone marrow human mesenchymal stem cells in chronic myocardial infarction Atta Behfar (André Terzic's group. Rochester, USA) | |
| 11:00 - 11:15 | Heart-derived cells for post-MI ventricular dysfunction Konstantinos Malliaras (Eduardo Marban's group. Los Angeles, USA) | |

11:15 - 11:30 **Induced pluripotent stem cell (iPSC) - derived Flk-1 progenitor cells engraft, differentiate and improve heart function in a mouse model of acute myocardial infarction.**

Robert Zweigerdt

(Ulrich Martin's group. Hannover, Germany)

11:30 - 11:50 **Panel discussion**

11:50 - 12:10 COFFEE BREAK

12:10- 14:00 NEW DEVELOPMENTS AGAINST CARDIOVASCULAR DYSFUNCTION

Chairs: Arturo Fernández-Cruz (Madrid, Spain)
Marisa Crespo (A Coruña, Spain)

Discussants: Javier Castrodeza (Valladolid, Spain)
Juan Carlos Chachques (Paris, France)
Francisco del Cañizo (Madrid, Spain)
Angel G. Pinto (Madrid, Spain)
Simon Philipp Hoerstrup (Zürich, Switzerland)
Doris Taylor (Minneapolis, USA)

12:10 - 12:25 **Mechanics for heart replacement and preservation**

Sharon Hunt (Stanford, USA)

12:25 - 12:40 **ECMO an old approach still useful**

Manuel Sánchez-Luna (Madrid, Spain)

12:40 - 12:55 **The revolution of trans-catheter cardiac valve replacement**

Arshad Quadri (Irvine, USA)

12:55 - 13:10 **The future of biologic total and partial cardiac replacement. Will xenografts play a role?**

Emanuele Cozzi (Padua, Italy)

13:10- 13:40 **Surgical approaches to heart failure**

Lessons from the STICH trial

Bernard Gersh (Rochester, USA)

13:40- 14:00 **Panel Discussion**

14:00 - 14:45 LUNCH BREAK

14:45 - 14:45 LATE BREAKING CLINICAL TRIALS IN STEM CELL THERAPY - II

| | | |
|---------------|--|--|
| Chairs: | Bernardo Nadal-Ginard José Suárez de Lezo | (Liverpool, UK) (Córdoba, Spain) |
| Discussants: | Bernard Gersh Timothy Henry Stefan Janssens Philippe Menasché Aberto San Roman James T. Willerson | (Roechester, USA) (Rochester, USA) (Leuven, Belgium) (Paris, France) (Valladolid, Spain) (Houston, USA) |
| 14:45 – 15:00 | The APOLLO study Patrick Serruys | (Rotterdam, The Netherlands) |
| 15:00 – 15:15 | The PRECISE study Emerson Perin | (Houston, USA) |
| 15:15 – 15:30 | Effects of MAPC delivery in patients with AMI - 1 year later Mark S. Penn | (Cleveland, USA) |
| 15:30 - 15:45 | The C Cure study Atta Behfar | (Rochester, USA) |
| 15:45- 16:00 | Helix transendocardial delivery catheter system, safety and ease of use after 100+ cases David Snow | (San Carlos, USA) |
| 16:00– 16:30 | Panel Discussion | |

16:30 - 17:05 CLOSING SESSION.**FIGHTING THE SPECTRUM OF LEFT VENTRICULAR FAILURE**

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|---------------|---|--|
| Chairs: | Rafael Matesanz Alberto San Román | (Madrid, Spain) (Valladolid, Spain) |
| 16:30 - 16:45 | Current status and future directions for cardiac cell repair therapy: The end of the beginning? Bernard Gersh | (Rochester, USA) |
| 16:45 - 17:00 | The problem of end stage left ventricular dysfunction. Is bioartificial heart the answer? Doris Taylor | (Minnesota, USA) |
| 17:00 - 17:05 | ADJOURN Francisco Fernández-Avilés | (Madrid, Spain) |

notes



Comité de Acreditación
CASEC



- Spanish Society of Cardiology.
Continuing Medical Education Accreditation Program. Activity accredited by the Spanish Society of Cardiology for 7.04 credit hours.
- EBAC (European Board for Accreditation in Cardiology).
Activity accredited by the European Board for Accreditation in Cardiology .



- Comisión de Formación Continuada. Sistema Nacional de Salud
Activity accredited for 1.6 credit hours.

DIRECTION

Francisco Fernández-Avilés
Servicio de Cardiología
Hospital General Universitario Gregorio Marañón (Madrid, Spain)

CO-DIRECTION

Mª Eugenia Fernández Santos
Unidad de Producción Celular
Hospital General Universitario Gregorio Marañón (Madrid, Spain)

Bernard Gersh

Mayo Clinic (Rochester, USA)

John F. Martin

Centre for Cardiovascular Biology & Medicine (London, United Kingdom)

José Alberto San Román

Instituto de Ciencias del Corazón (ICICOR)
Hospital Clínico-Universitario de Valladolid (Valladolid, Spain)

Pedro L. Sánchez

Servicio de Cardiología
Hospital General Universitario Gregorio Marañón (Madrid, Spain)

Doris A. Taylor

Center for Cardiovascular Repair
University of Minnesota (Minneapolis, USA)

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Ana Fernández Baza
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ORGANIZATION

- Servicio de Cardiología. Hospital General Universitario Gregorio Marañón, Madrid.
- Instituto de Ciencias del Corazón (ICICOR). Hospital Clínico-Universitario de Valladolid
- Red Temática de Investigación Cardiovascular del Instituto de Salud Carlos III (RECAVA)
- Red Temática de Terapia Celular del Instituto de Salud Carlos III (TERCEL)
- Grupo de Terapia Celular Aplicada al Miocardio (TECAM, Hospital General Universitario Gregorio Marañón, Hospital Clínico-Universitario de Valladolid, Hospital Río Hortega, Instituto de Biología y Genética Molecular)
- Task Force on Stem Cell Regeneration of the Heart (European Society of Cardiology)

This symposium is aimed at both medical and non-medical scientists interested in the study and application of stem cell therapy and other biotechnological advances for the prevention and treatment of cardiovascular failure. For this reason the audience comprises:

- a. Preclinical researchers from all areas wishing to deepen their knowledge of cardiovascular biotechnological developments with therapeutic potential.
- b. Doctors specialising in the care of patients suffering from cardiovascular diseases, and who are interested in finding out about and discussing the current state of affairs and the future prospects for the application of these new therapeutic methods.
- c. Doctors involved in interventions dedicated to cardiovascular pathology and who are interested in the results and perspectives of gene vehiculization techniques, the stimulation of endogenous progenitors, cell transplant or electromechanical helps to fight cardiovascular disease.
- d. Medical or no medical professionals interested in the development of units and networks aimed at the translation of cardiovascular knowledge from bench to bedside and vice versa.
- e. Medical or no medical professionals interested in envisaging the opportunities for competition of biotechnology in the cardiovascular field

At the end of the conference those present will have acquired the following skills:

- 1. Knowledge and ability to discuss the latest advances in the role of progenitor cells in the integrity of the cardiovascular system of a healthy individual.
- 2. Knowledge and ability to discuss the latest experimental advances in the renewal and repair capacity of the damaged cardiovascular structure via the transplant of adult or embryonic stem cells or the stimulation of endogenous progenitors.,
- 3. Know about and be able to objectively debate the current state of feasibility, safety and efficacy with regards to the clinical application of cell therapy and other new biotechnological treatments.
- 4. Knowledge and ability to debate objectively on the efficiency of these types of treatment in patients with acute or chronic cardiovascular diseases.
- 5. Ability to predict the possibilities of scientific and professional attitude with regards to offering these therapeutic methods.
- 6. Ability to evaluate and decide one's own ability to participate in the application of these therapies for healthcare, clinical, and preclinical purposes.
- 7. Ability to identify those institutions and groups with the highest performance capabilities in these fields, and be able to establish contacts for educational, scientific, and healthcare purposes.

Eckhard Alt (Houston, USA)
Stephen L. Archer (Chicago, USA)
Xiaowen Bai (Houston, USA)
Joan Albert Barberá (Barcelona, Spain)
Atta Behfar (Rochester, USA)
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Andreas Zeiher (Frankfurt, Germany)
Robert Zweigerdt (Hannover, Germany)

MEETING VENUE

Auditorium Consejo Superior de Investigaciones Científicas (CSIC)
C/ Serrano 117
28006 Madrid

DATE

9th and 10th June 2011

OFFICIAL LANGUAGES

English and Spanish (simultaneous translation will be available)

TECHNICAL SECRETARIAT**Viajes Orbiazul**

C/ Alonso Pesquera, 2
47002 Valladolid
Tf. 00 34 983 30 91 92
Fx. 00 34 983 29 53 51
housing@cardiovascularcelltherapy.com
info@cardiovascularcelltherapy.com

The website www.cardiovascularcelltherapy.com is a virtual place which contains all the information related to this Symposium and its previous editions

It is possible through this web-site to access the scientific program, to register and to reserve accommodation.

It is also a priority for this web site to offer updated information about Stem Cell Therapy for Cardio-vascular Diseases, so that appropriate access to the related sites has been created.

You can also join us on **Facebook** and **Twitter**.



DIRECTION

Francisco Fernández-Avilés

Servicio de Cardiología

Hospital General Universitario Gregorio Marañón (Madrid, Spain)

CO-DIRECTION

M^a Eugenia Fernández Santos

Unidad de Producción Celular

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Texas Heart Institute (Houston, USA)

TECHNICAL DIRECTION

Ana Fernández Baza

Hospital General Universitario Gregorio Marañón

C/ Doctor Esquerdo, 46. 28007 Madrid

T. 00 34 91 426 58 82 / F. 00 34 91 586 82 76

anafdezba@cardiovascularcelltherapy.com

TECHNICAL SECRETARIAT

Viajes Orbiazul

C/ Alonso Pesquera 2. 47002 Valladolid

T. 00 34 983 30 91 22 / F. 00 34 983 29 53 51

housing@cardiovascularcelltherapy.com