

7th INTERNATIONAL SYMPOSIUM
ON STEM CELL THERAPY
& CARDIOVASCULAR
INNOVATIONS

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2 ACCREDITATION



· Spanish Society of Cardiology. Continuing Medical Education Accreditation Program. Activity accredited by the Spanish Society of Cardiology for 11.4 credit hours



· EBAC (European Board for Accreditation in Cardiology). Activity accredited by the European Board for Accreditation in Cardiology for 11 CME credit hours.
· Comisión de Formación Continuada. Sistema Nacional de Salud.

3 ORGANIZATION

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3 ORGANIZATION

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Ricardo Sanz (Hospital G. Univ Gregorio Marañón, Madrid)
Adolfo Villa (Hospital G. Univ Gregorio Marañón, Madrid)

ORGANIZATION

- Servicio de Cardiología. Hospital General Universitario Gregorio Marañón, Madrid
- Instituto de Ciencias del Corazón (ICICOR). Hospital Clínico-Universitario, 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 Universitario Río Hortega, Instituto de Biología y Genética Molecular)
- Task Force on Stem Cell Regeneration of the Heart (European Society of Cardiology)

4 EDUCATIONAL OBJECTIVES

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:

- Preclinical researchers from all areas wishing to deepen their knowledge of cardiovascular biotechnological developments with therapeutic potential.
- 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.
- 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.
- 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.
- Medical or no medical professionals interested in envisaging the opportunities for competition of biotechnology in the cardiovascular field.

4 EDUCATIONAL OBJECTIVES

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

- 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.
- 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.
- 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.
- Knowledge and ability to debate objectively on the efficiency of these types of treatment in patients with acute or chronic cardiovascular diseases.
- Ability to predict the possibilities of scientific and professional attitude with regards to offering these therapeutic methods.
- Ability to evaluate and decide one's own ability to participate in the application of these therapies for healthcare, clinical, and preclinical purposes.
- 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.

5 FACULTY

Keng Ang (Leicester, UK)	Nuria Montserrat (Barcelona, Spain)
Joseph Bartunek (Aalst, Belgium)	Bernardo Nadal-Ginard (Boston, USA)
Antonio Bernad (Madrid, Spain)	Tymothy Nelson (Rochester, USA)
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Eric Duckers (Róterdam, The Netherlands)	Robert Simari (Rochester, USA)
Arturo Fernández-Cruz (Madrid, Spain)	José Suárez de Lezo (Cordoba, Spain)
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Manuel Galiñanes (Leicester, UK)	Michal Tendera (Katowice, Poland)
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Bernard Gersh (Rochester, USA)	James T. Willerson (Houston, USA)
Angel González Pinto (Madrid, Spain)	Wojtek Wojakowski (Katowice, Poland)
Stefan Janssens (Leuven, Belgium)	Kai C. Wollert (Hannover, Germany)
Roland Hetzer (Berlin, Germany)	Magdi Yacoub (Harefield, UK)
Sharon Hunt (Stanford, USA)	Andreas Zeiher (Frankfurt, Germany)
Rafael Matesanz (Madrid, Spain)	Wolfram-Hubertus Zimmerman (Goettingen, Germany)
John Martin (London, UK)	
Philippe Menasche (Paris, France)	

THURSDAY, 6th Mayo 2010

- 7:45 - 8:30 **REGISTRATION**
- 8:30 - 9:00 **WELCOMING**
- 9:00-10:00 **OPENING SPECIAL LECTURES: "Helmut Drexler. In Memoriam"**
Chair and presenter: John Martin (London, UK)
- 9:00 - 9:20 Helmut Drexler. Human and scientific legacy
Kai C. Wollert (Hannover, Germany)
- 9:25 - 9:45 Innovation against heart failure. Lessons from Helmut's contribution and vision
Bernard Gersh. (Rochester, USA)
- 9:45 - 10:30 **Coffee break**
- 10:30- 13:00 **WHAT'S NEW IN STEM CELL THERAPY FOR CARDIAC REPAIR?**
*Chairs: David García-Dorado (Barcelona, Spain)
Andreas Zeiher (Frankfurt, Germany)*
*Discussants: Joseph Bartunek (Aalst, Belgium)
Philippe Menasché (Paris, France)
Doris Taylor (Minneapolis, USA)
Noel Caplice (Cork, Ireland)
José Suárez de Lezo (Cordoba, Spain)
Emerson Perin (Houston, USA)
Antonio Bernad (Madrid, Spain)*
- 10:30 - 10:45 Induced pluripotent cells: the next regenerative platform?
Andre Terzic (Rochester, USA)
- 10:45 - 11:00 Panel discussion
- 11:00 - 11:15 Adult stem cells. Advances and perspectives
Felipe Prosper (Pamplona, Spain)
- 11:15 - 11:30 Panel discussion
- 11:30 - 11:45 The paradox of functional benefit despite no regeneration. Is paracrine effect the answer?
Stefanie Dimmeler (Frankfurt, Germany)
- 11:45 - 12:00 Panel discussion
- 12:00 - 12:15 Delivery, homing and survival. Questions and answers.
Nabil Dib (San Diego, USA)
- 12:15 - 12:30 Panel discussion
- 12:30 - 12:45 Clinical trials in perspective. Are they justified? Which type?
Robert Simari (Rochester, USA)
- 12:45 - 13:00 Panel discussion

13:00 - 15:30

Lunch and Poster Exhibition

SALON DE ACTOS. RESIDENCIA DE ESTUDIANTES CSIC

Chairs:

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

15:30 - 18:00

**SPECIAL THEMED SESSION:
INNOVATIONS FOR ADVANCED HEART FAILURE**

Chairs: *Marisa Crespo-Leiro (A Coruña, Spain)
Rafael Matesanz (Madrid, Spain)*

Discussants: *Juan Carlos Chachques (Paris, France)
José Cuenca (A Coruña, Spain)
Angel González-Pinto (Madrid, Spain)
Manuel Galiñanes (Leicester, UK)
Michal Tendera (Katowice, Poland)
Guillermo Reyes (Madrid, Spain)
Gregorio Garrido (Madrid, Spain)*

15:30 - 15:45

Surgical Therapies for Heart Failure. New developments
Magdi Yacoub (Harefield, UK)

15:45 - 16:00

Panel discussion

16:00 - 16:15

The changing face of heart transplantation.
Sharon Hunt (Stanford, USA)

16:15 - 16:30

Panel discussion

16:30 - 16:45

Mechanics for bridge or destination. The German Heart Institute experience.
Roland Hetzer (Berlin, Germany)

16:45 - 17:00

Panel discussion

17:00 - 17:15

Optimizing engineered heart tissue for therapeutic applications
Wolfram-Hubertus Zimmerman (Goettingen, Germany)

17:15 - 17:30

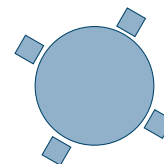
Panel discussion

17:30 - 17:45

Cell-based bioartificial heart. What's new?
Doris Taylor (Minneapolis, USA)

17:45 - 18:00

Panel discussion



FRIDAY, 7th Mayo 2010

AUDITORIUM

9:00 - 10:00 **BEST POSTERS PRESENTATION**

Chairs: *Philippe Menasché (Paris, France)*
Stefan Janssens (Leuven, Belgium)
Alberto San Román (Madrid, 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 - 10:00 Winner work presentation and discussion

10:00 - 10:30 **SPECIAL LECTURE**

Chairs and Presenter: *Arturo Fernández-Cruz (Madrid, Spain)*
"The future of stem cell therapy research. Advises to the youngest"
Valentin Fuster (New York, USA)

10:30 - 13:00 **RECENT CONTRIBUTIONS PRESENTED BY THE YOUNGEST**

Chairs : *Noel Caplice (Cork, Ireland)*
Michal Tendera (Katowice, Poland)

Discussants : *Philippe Menasche (Paris, France)*
Valentin Fuster (New York, USA)
Magdi Yacoub (Harefield, UK)
Bernardo Nadal-Ginard (Boston, USA)
James T. Willerson (Houston, USA)
Andreas Zeiher (Frankfurt, Germany)
Stefanie Dimmeler (Frankfurt, Germany)
Kai Wollert (Hannover, Germany)

10:30 - 10:45 Pluripotent stem cell-based cardiogenesis and repair
Timothy J. Nelson
(André Terzic's group. Rochester, USA)

10:45 - 11:00 Panel discussion

11:00 - 11:15 Cell therapy in patients with chronic ischemia
Jan van Ramshorst
(Douwe E. Atsma's group. Leiden, The Netherlands)

11:15 - 11:30 Panel discussion

11:30 - 11:45 Polish project on very small embryonic-like (VSEL) cells in cardiology
Wojtek Wojakowski
(Michal Tendera's group. Katowice. Poland)

11:45 - 12:00 Panel discussion

12:00 - 12:15 Understanding the mechanisms and potential of cell therapy for the repair of the adult mammalian heart.

Keng Ang
(Manuel Galiñanes's group. Leicester, UK)

12:15 - 12:30 Panel discussion

12:30 - 12:45 Generation of pig induced pluripotent stem cells: methods, characterization and future implications in human cell therapy.

Nuria Montserrat
(Juan Carlos Izpisua's group. La Jolla, USA / Barcelona, Spain)

12:45 - 13:00 Panel discussion

13:00 - 13:40 **Brunch Break**13:40 - 14:30 **LATE BREAKING CLINICAL TRIALS IN STEM CELL THERAPY**

Chairs: *Bernard Gersh (Rochester, USA)*
Philippe Menasché (Paris, France)

Discussants: *Felipe Prosper (Pamplona, Spain)*
Alberto San Román (Valladolid, Spain)
Andreas Zeiher (Frankfurt, Germany)
Doris Taylor (Minneapolis, USA)
Manuel Galiñanes (Leicester, UK)
Noel Caplice (Cork, Ireland)

13:40 - 13:55 Freshly adipose-derived stem cells in acute myocardial infarction. The APOLLO trial.
Eric Duckers (Rotterdam, The Netherlands)

13:55 - 14:10 Freshly adipose-derived stem cells in chronic ischaemia. The PRECISE trial.
Emerson Perin (Houston, USA)

14:10 - 14:30 Panel discussion

14:30 - 15:10 **CLOSING SESSION**

Chairs: *Augusto Silva (Madrid, Spain)*
James T. Willerson (Houston, USA)

14:30 - 14:45 Next steps in stem cell therapy for heart repair. The preclinical view
Bernardo Nadal-Ginard (Boston, USA)

14:45 - 15:00 Next steps in stem cell therapy for heart repair. The clinical view
Andreas Zeiher (Frankfurt, Germany)

15:00 - 15:10 **ADJOURN**
Francisco Fernandez-Aviles (Madrid, Spain)

7 GENERAL INFORMATION

Meeting Venue
Salón de Actos
Consejo Superior de Investigaciones
Científicas (CSIC)
C/ Serrano 117
28006 Madrid

Date
6th and 7th May 2010

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Official Languages
English and Spanish (simultaneous
translation will be available)

8 WEB SITE AND EDUCATIONAL PRODUCTS

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 Cardiovascular Diseases, so that appropriate access to the related sites has been created. High quality educational material such as access to web casts, conferences, or updated bibliography is also accessible through this web site

9 COLLABORATION AND SPONSORSHIP

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