

**“SEVENTH INTERNATIONAL SYMPOSIUM
ON STEM CELL THERAPY
AND CARDIOVASCULAR INNOVATIONS”**

Madrid (Spain), 6th and 7th May 2010

**Salón de Actos
Consejo Superior de Investigaciones Científicas (CSIC)
C/ Serrano 117
28016 Madrid**



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2. ACCREDITATION

- Spanish Society of Cardiology. Continuing Medical Education Accreditation Program.
- EBAC (European Board for Accreditation in Cardiology)
- Comisión de Formación Continuada. Sistema Nacional de Salud.



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3. DIRECTION

DIRECTION

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Ana Fernández - Baza

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INTERNATIONAL SCIENTIFIC ADVISORY BOARD

Jozef Bartunek	(Aalst, Belgium)
Nabil Dib	(San Diego, USA)
Stefanie Dimmeler	(Frankfurt, Germany)
Valentín Fuster	(New York, USA)
Manuel Galiñanes	(Leicester, United Kingdom)
Javier García-Sancho	(Valladolid, Spain)
Bernard Gersh	(Rochester, USA)
Juan Carlos Izpisua	(La Jolla, USA)
Stefan Janssens	(Leuven, Belgium)
Anthony Mathur	(London, United Kingdom)
John Martin	(London,, United Kigdom)
Philippe Menasche	(Paris, France)
Bernardo Nadal-Ginard	(Boston, USA)
Emerson Perin	(Houston, USA)
Doris Taylor	(Minneapolis, USA)
William Wijns	(Aalst, Belgium)
James T. Willerson	(Houston, USA)
Andreas Zeiher	(Frankfurt, Germany)

EXECUTIVE LOCAL COMMITTEE

Pilar Garabato	(Hospital G. Univ Gregorio Marañón, Madrid)
Carmen G. Morante	(Hospital G. Univ. Gregorio Marañón, Madrid)
Enrique Gutierrez	(Hospital G. Univ Gregorio Marañón, Madrid)
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)



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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:

- 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.



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5. INVITED FACULTY

Keng Ang	(Leicester, UK)
Joseph Bartunek	(Aalst, Belgium)
Antonio Bernad	(Madrid, Spain)
Noel Caplice	(Cork, Ireland)
Marisa Crespo Leiro	(A Coruña, Spain)
Juan Carlos Chachques	(Paris, France)
José Cuenca	(A Coruña, Spain)
Nabil Dib	(San Diego, USA)
Stefanie Dimmeler	(Frankfurt, USA)
Eric Duckers	(Róterdam, The Netherlands)
Arturo Fernandez-Cruz	(Madrid, Spain)
Valentin Fuster	(New York, USA)
Manuel Galiñanes	(Leicester, UK)
David García-Dorado	(Barcelona, Spain)
Gregorio Garrido	(Madrid, Spain)
Bernard Gersh	(Rochester, USA)
Angel González Pinto	(Madrid, Spain)
Roland Hetzer	(Berlin, Germany)
Sharon Hunt	(Stanford, USA)
Juan Carlos Izpisúa	(La Jolla, USA)
Stefan Janssens	(Leuven, Belgium)
José M ^a Lasso	(Madrid, Spain)
Rafael Matesanz	(Madrid, Spain)
John Martin	(London, UK)
Philippe Menasche	(Paris, France)
Nuria Montserrat	(Barcelona, Spain)
Bernardo Nadal-Ginard	(Boston, USA)
Tymothy Nelson	(Rochester, USA)
Emerson Perin	(Houston, USA)
Felipe Prosper	(Pamplona, Spain)
Jan van Ramshorst	(Leiden, The Netherlands)
Guillermo Reyes	(Madrid, Spain)
Alberto San Román	(Valladolid, Spain)
Augusto Silva	(Madrid, Spain)
Robert Simari	(Rochester, USA)
José Suárez de Lezo	(Cordoba, Spain)
Doris Taylor	(Minneapolis, USA)
Michal Tendera	(Katowice, Poland)
André Terzic	(Rochester, USA)
James T. Willerson	(Houston, USA)
Wojtek Wojakowski	(Katowice, Poland)
Kai C. Wollert	(Hannover, Germany)
Magdi Yacoub	(Harefield, UK)
Andreas Zeiher	(Frankfurt, Germany)
Wolfram-Hubertus Zimmerman	(Goettingen, Germany)



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6 **SCIENTIFIC AGENDA**

THURSDAY, 6th May 2010

(7.45 – 8.30)
REGISTRATION

(8.30 – 9.00)
WELCOMING

(9.00 – 10.00)
OPENING SPECIAL LECTURE. “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)
Juan Carlos Izpisúa (La Jolla, USA)

(10.30 – 10.45) Induced pluripotent cells: the next regenerative platform?
Andre Terzic (Rochester, USA)

(10.45 – 11.00) Panel discussion



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- (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

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



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(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



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FRIDAY, 7th May 2010

AUDITORIUM

(9:00 - 10:00)

BEST POSTERS PRESENTATION

Chairs: Philippe Menasche (Paris, France)
Stefan Janssens (Leuven, Belgium)
Alberto San Román (Valladolid, 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.

Chair and Presenter: Arturo Fernández-Cruz (Madrid, Spain)

“The future of stem cell therapy research.
Advice for young researchers”
Valentin Fuster (New York, USA)

(10:30 – 13.00)

RECENT CONTRIBUTIONS PRESENTED BY YOUNG RESEARCHERS

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)



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- (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)
- (13.15 – 13.30) 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 – 13.30 Brunch Break

(13.30 – 14.30)

LATE BREAKING CLINICAL TRIALS IN STEM CELL THERAPY

Chairs	Bernard Gersh Philippe Menasché	(Rochester, USA) (Paris, France)
Discussants	Felipe Prosper Alberto San Román Andreas Zeiher Doris Taylor Manuel Galiñanes Noel Caplice José M ^a Lasso	(Pamplona, Spain) (Valladolid, Spain) (Frankfurt, Germany) (Minneapolis, USA) (Leicester, UK) (Cork, Ireland) (Madrid, Spain)



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- (13.30 – 13.45) First US study to assess the feasibility & safety of endocardial delivery of allogenic mesenchymal cells in subjects with heart failure
Nabil Dib (San Diego, USA)
- (13.45 – 14.00) Freshly adipose-derived stem cells in chronic ischaemia.
The PRECISE Trial
Emerson Perin (Houston, USA)
Francisco Fernández-Aviles (Madrid, Spain)
- (14.00 – 14.15) Freshly adipose-derived stem cells in acute myocardial infarction.
The APOLLO Trial
Eric Duckers (Rotterdam, The Netherlands)
- (14.15 – 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)



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7. GENERAL INFORMATION

Meeting Venue

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28006 Madrid

Date

6th and 7th May 2010

Official Languages

English and Spanish (simultaneous translation will be available)

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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