

14th INTERNATIONAL SYMPOSIUM ON STEM CELL THERAPY & CARDIOVASCULAR INNOVATIONS



www.cardiovascularcelltherapy.com

Symposium Director: Francisco Fernández – Avilés



MADRID. SPAIN, JUNE 15th – 16th 2017

AULA MAGNA. PABELLÓN DOCENTE. HOSPITAL GENERAL UNIVERSITARIO GREGORIO MARAÑÓN.

C/ IBIZA, 43. 28007 MADRID

14th INTERNATIONAL SYMPOSIUM & ON STEM CELL THERAPY CARDIOVASCULAR INNOVATIONS

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Inside the framework of Precision Medicine, regenerative therapies are undoubtedly the greatest future hope in the battle against cardiovascular failure, and have the urgent need to address this challenge within an international framework of excellence. This view has inspired from the beginning the mission of this symposium, created to critically reflect on the past of this field and to advance through the synergy of basic discoveries and translational efforts.

Once again, this adventure has been made possible thanks to the effort and enthusiasm of many people. With the celebration of the 14th Edition of this meeting, all of us who have been involved in its preparation would like to thank you for your interest and support. We sincerely hope to meet the expectations of all those who will devote part of their valuable time to visit Madrid and to take part in the Symposium with us. We are excited and look forward to sharing this special occasion with you.

Francisco Fdez-Avilés.

(On behalf of the Organizing Committee)

THURSDAY, 15th June 2017

7.45 – 8.30 REGISTRATION

8.30 – 9.00 WELCOMING

9.00 – 10.00 OPENING LECTURES

Chairs John F. Martin (London, UK)
David García-Dorado (Barcelona, Spain)

9.00 – 9.15 **Cells to cure myocardial damage. Should we believe?**
Michael Laflamme (Toronto, Canada)

9.15 – 9.30 **Gene editing as a regenerative treatment for cardiovascular diseases**
Juan Carlos Izpisúa (La Jolla, USA)

9.30 – 9.45 **Cells and tissues as models of disease. How to find a personalized therapy**
Joseph Wu (Stanford, USA)

10.00 – 10.30 **Coffee break and Poster Exhibition**



10.30 – 12.00 **WHAT'S NEW IN CARDIOVASCULAR REGENERATIVE MEDICINE?**

Preclinical Regenerative Medicine

Chairs	Ricardo Sanz-Ruiz Rosalinda Madonna	(Madrid, Spain) (Chieti, Italy)
Panel Discussant	Piero Anversa Nuria Montserrat Michael Laflamme	(Lugano, Switzerland) (Barcelona, Spain) (Toronto, Canada)

- 10.30 (10')** **The role of fibroblasts in the myocardial parenchymal**
Stefanie Dimmeler (Frankfurt, Germany)
- 10.40 (10')** **Empowering adult stem cells for myocardial regeneration**
Mark Sussman (San Diego, USA)
- 10.50 (10')** **Allogeneic iPS-derived cardiomyocytes in primate models**
Yuji Shiba (Matsumoto, Japan)
- 11.00 (10')** **Repetitive administration of CSC, a new paradigm**
Roberto Bolli (Louisville, USA)
- 11.10 (10')** **Triangulation of preclinical studies of human pericytes models of myocardial infarction**
Paolo Madeddu (Bristol, UK)
- 11.20 (10')** **Cardiac stem cell treatment in myocardial infarction. A systematic review and meta-analysis of preclinical studies**
Steven Chamuleau (Utrecht, The Netherlands)
- 11.30—12.00** **Discussion**



12.00 – 13.40 WHAT'S NEW IN CARDIOVASCULAR REGENERATIVE MEDICINE?

Clinical Regenerative Medicine

Chairs:	Stefan Janssens	(Leuven, Belgium)
	Antoni Bayes Genis	(Barcelona, Spain)
Panel Discussants:	Ricardo Sanz-Ruiz	(Madrid, Spain)
	Dominique Charron	(Paris, France)
	James T. Willerson	(Houston, USA)

- 12.00 - 12.10** **Multicellular MSC-based bone marrow-derived cell therapy in patients with ischemic heart failure. The ixCELL-DCM trial**
Timothy Henry (Los Angeles, USA)
- 12.10 - 12.20** **Cardiopoietic cell therapy for advanced ischemic heart failure. The CHART-1 trial**
André Terzic (Rochester, USA)
- 12.20 - 12.30** **Autologous CD34(+) cells in patients with refractory angina. The RENEW trial**
Thomas Povsic (Durham, USA)
- 12.30 - 12.40** **Allogeneic versus autologous MSC for non-ischemic dilated cardiomyopathy. The POSEIDON-DCM trial**
Joshua Hare (Miami, USA)
- 12.40 - 12.50** **Nucleated bone marrow cells after STEMI treated with early PCI and optimal medical therapy. The BOOST-2 trial .**
Kai C. Wollert (Hannover, Germany)
- 12.50 - 13.00** **Bioabsorbable intracoronary matrix for prevention of ventricular remodeling after myocardial infarction. The PRESERVATION trial**
Thomas Povsic (Durham, USA)
- 13.00 - 13.10** **Intramyocardial cell-based studies in patients with heart failure**
Mariann Gyöngyösi (Vienna, Austria)
- 13.10 - 13.20** **Intracoronary Administration of Autologous CD34+ Cells in Patients With Left Ventricular Dysfunction Post STEMI. The PreSERVE-AMI trial**
Douglas W. Losordo (Chicago, USA)
- 13.20 – 13.40** **Discussion**



13.40 – 14.15 Lunch and Poster Exhibition

Chairs and jury: Philippe Menasche (Paris, France)
Felipe Prosper (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 winner of the Posters Awards will have to present their work (oral presentation) the following day in the morning, in the session named “Best Poster Presentation”, when they will receive their prize.

For more information regarding Poster Exhibition and Poster Awards, please contact us via e-mail at posters@cardiovascularcelltherapy.com

14.15 – 14.20 Posters Award - Winners communication

Chairs: Philippe Menasché (Paris, France)
Felipe Prosper (Pamplona, Spain)



14.20 – 16.20 THE 2017 DEBATE

Chairs:	James T. Willerson	(Houston, USA)
	Giulio Pompilio	(Milan, Italy)
Panel Discussants:	Pedro L. Sánchez	(Salamanca, Spain)
	Piero Anversa	(Lugano, Switzerland)
	Antoni Bayés-Genis	(Barcelona, Spain)

14.20 – 15.00 STEMI in the era of reperfusion and optimal medical therapy. Do we really need regenerative therapies?

14.20 – 14.30 NO

Jens Kastrup (Copenhagen, Denmark)

14.30 – 14.40 YES

Andreas Zeiher (Frankfurt, Germany)

14.40 – 15.00 Discussion

15.00 – 15.40 Endpoints in future clinical trials.

15.00 – 15.10 Only death and hard endpoints should be used

Filippo Crea (Rome, Italy)

15.10 – 15.20 Quality of life is the only meaningful goal

Bernard Gersh (Rochester, USA)

15.20 – 15.40 Discussion

15.40 – 16.20 Pluripotent stem cells (iPSC / ESC) at the moment of truth

15.40 – 15.50 We are ready for clinical applications

Philippe Menasché (Paris, France)

15.50 – 16.00 We still don't know how to use them

Roberto Bolli (Louisville, USA)

16.00 – 16.20 Discussion

16.20—16.50 Coffee Break



16.50 – 18.20 DISCOVERIES, INVENTIONS AND BREAKTHROUGHS

Chairs: Bernardo Nadal-Ginard (London, UK)
André Terzic (Rochester, USA)

Panel Discussant: Jerome Roncalli (Toulouse, France)
Mariann Gyöngyösi (Vienna, Austria)
Roberto Fernández-Viña (Buenos Aires, Argentina)

- 16.50 - 17.00** Identification of cardiovascular risk factors associated with bone marrow cell subsets in patients with STEMI: a biorepository evaluation from the CCTRN TIME and late TIME clinical trials
Doris A. Taylor (Houston, USA)
- 17.00 - 17.10** Innovations to improve cardiac tissue engineering: from decellularized scaffolds to 3D bioprinting
Nuria Montserrat (Barcelona, Spain)
- 17.10 - 17.20** Clinical trials of allogeneic CDCs for HFrEF, HFpEF and pulmonary hypertension: DYNAMIC, Regress-HFpEF and ALPHA
Eduardo Marban (Los Angeles, USA)
- 17.20 - 17.30** Allogeneic ADSC for advanced heart failure. The SCIENCE trial
Jens Kastrup (Copenhagen, Denmark)
- 17.30 - 17.40** Allogeneic mesenchymal precursor cells (Rexlemestrocil-L) for the treatment of heart failure. DREAM-HF
Emerson Perin (Houston, USA)
- 17.40 – 18.20** Discussion



FRIDAY, 16th June 2017

9.00 – 9.30 BEST POSTERS PRESENTATION

Chairs: Felipe Prosper (Pamplona, Spain)
Philippe Menasché (Paris, France)

9.30 – 10.30 RECENT CONTRIBUTIONS PRESENTED BY YOUNG INVESTIGATORS

Chairs: Felipe Prosper (Pamplona, Spain)
Philippe Menasché (Paris, France)
Panel Discussants: Javier Bermejo (Madrid, Spain)
Wojtek Wojakowski (Katowice, Poland)

09.30 - 09.40 Education pathways in regenerative medicine: building the next generation workforce
Saranya Wyles (André Terzic's group. Rochester, USA)

09.40 – 09.50 Ying-yang allogeneicity for cardiac repair
Reem Al-Daccak (Dominique Charron's group. Paris, France)

09.50 – 10.00 Cardiac adipocytes in arrhythmogenic cardiomyopathy
Elena Sommariva (Giulio Pompilio's group. Milan, Italy)

10.00 – 10.10 Reactivating adult cardiomyocyte proliferation and cardiac regeneration using using a cardiomyocyte-specific and cell-cycle inducer modified mRNA
Lior Zangi (Roger Hajjar's group. New York, USA)

10.10 – 10.30 Panel Discussion

10.30—11.00 Coffee Break

11.00 – 12.30 THE FIELD AFTER THE TACTICS ENTERPRISE

Chairs: Francisco Fdez-Avilés (Madrid, Spain)
James T. Willerson (Houston, USA)
Panel Discussants: André Terzic (Rochester, USA)
Joseph Bartunek (Aalst, Belgium)
Robert Simari (Kansas, USA)

11.00 - 11.15 Cardiac regeneration and repair. The roadmap for the European Society of Cardiology
Lina Badimon (Barcelona, Spain)

11.15 – 11.30 Scientific advance in cardiovascular regenerative therapies. Obstacles and opportunities in the American and global scenario
Eduardo Marban (Los Angeles, USA)

11.30 – 11.45 Cardiac regeneration in the fight against cardiovascular failure. Ready for clinical application?
Anthony DeMaria (San Diego, USA)

11.45 – 12.30 Panel Discussion

12.30—13.00 Break

13.00 – 13.40 CLOSING SESSION

Chairs: John F. Martin (London, UK)
Arturo Fernández-Cruz (Madrid, Spain)

13.00 – 13.20 What does cardiac regeneration mean? Cells, genes, anything else?
Valentin Fuster (New York, USA)

13.20 – 13.40 Future and Innovative approaches to Chronic Heart Failure
Bernard Gersh (Rochester, USA)

13.40 – 14.00 FOURTH MADRID CARDIAC REGENERATION AWARDS

Chairs: Arturo Fernández-Cruz (Madrid, Spain)
John F. Martin (London, UK)

14.00 ADJOURN
Francisco Fdez-Aviles (Madrid, Spain)

DIRECTION

Francisco Fernández-Avilés

Servicio de Cardiología

Hospital General Universitario Gregorio Marañón (Madrid, Spain)

Instituto de Investigación Sanitaria Gregorio Marañón (IISGM)

CO-DIRECTION

Andreu M. Climent

Servicio de Cardiología. Laboratorio de Órganos Bioartificiales

Hospital General Universitario Gregorio Marañón

Instituto de Investigación Sanitaria Gregorio Marañón (Madrid, Spain)

M^a Eugenia Fernández Santos

Unidad de Producción Celular. Laboratorio de Organos Bioartificiales

Hospital General Universitario Gregorio Marañón

Instituto de Investigación Sanitaria 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 Clínico Universitario de Salamanca (Salamanca, Spain)

Ricardo Sanz Ruiz

Servicio de Cardiología

Hospital General Universitario Gregorio Marañón

Instituto de Investigación Sanitaria Gregorio Marañón (Madrid, Spain)

Doris A. Taylor

Texas Heart Institute (Houston, USA)

Andreas W. Zeiher

University of Frankfurt (Frankfurt, Germany)

TECHNICAL DIRECTION

Ana Fernández Baza

Instituto de Investigación Sanitaria Gregorio Marañón (IISGM)

Servicio de Cardiología

Hospital General Universitario Gregorio Marañón

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Instituto de Investigación Sanitaria Gregorio Marañón (IISGM) - Hospital G. Universitario Gregorio Marañón, Madrid

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Instituto de Investigación Sanitaria Gregorio Marañón (IISGM) - Hospital G. Universitario Gregorio Marañón, Madrid

Adolfo Villa

Instituto de Investigación Sanitaria Gregorio Marañón (IISGM) - Hospital G. Universitario Gregorio Marañón, Madrid

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- **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 -Madrid-, Hospital Clínico-Universitario de Valladolid, Hospital Río Hortega - Valladolid-, Instituto de Biología y Genética Molecular - Universidad de Valladolid-)**
- **Task Force on Stem Cell Regeneration of the Heart (European Society of Cardiology)**

MEETING VENUE

Aula Magna. Pabellón Docente. Hospital General Universitario Gregorio Marañón.

C/ Ibiza, 43. 28007 Madrid, Spain



DATE

June 15th and 16th, 2017

OFFICIAL LANGUAGES

English and Spanish (simultaneous translation will be available)

TECHNICAL SECRETARIAT

Marta Hurtado Martín

Francisco Matarín Uclés

info@cardiovascularcelltherapy.com

Reem Al-Daccak (Paris, France)
Piero Anversa (Lugano, Switzerland)
Lina Badimon (Barcelona, Spain)
Joseph Bartunek (Aalst, Belgium)
Antoni Bayes Genis (Barcelona, Spain)
Javier Bermejo (Madrid, Spain)
Roberto Bolli (Louisville, USA)
Steven Chamuleau (Utrecht, The Netherlands)
Dominique Charron (Paris, France)
Filippo Crea (Rome, Italy)
Anthony DeMaria (San Diego, USA)
Stefanie Dimmeler (Frankfurt, Germany)
Francisco Fernández-Aviés (Madrid, Spain)
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Valentin Fuster (New York, USA)
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Philippe Menasché (Paris, France)
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DIRECTION

Francisco Fernández-Avilés

*Instituto de Investigación Sanitaria Gregorio Marañón
Hospital General Universitario Gregorio Marañón (Madrid, Spain)*

CO-DIRECTION

Andreu M. Climent

*Instituto de Investigación Sanitaria Gregorio Marañón
Hospital General Universitario Gregorio Marañón (Madrid, Spain)*

M^a Eugenia Fernández Santos

*Instituto de Investigación Sanitaria Gregorio Marañón
Hospital General Universitario Gregorio Marañón (Madrid, Spain)*

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Hospital Clínico-Universitario de Valladolid (Valladolid, Spain)

Pedro L. Sánchez

Hospital Universitario de Salamanca (Salamanca, Spain)

Ricardo Sanz Ruiz

*Instituto de Investigación Sanitaria Gregorio Marañón
Hospital General Universitario Gregorio Marañón (Madrid, Spain)*

Doris A. Taylor

Texas Heart Institute (Houston, USA)

Andreas W. Zeiher

University of Frankfurt (Frankfurt, Germany)

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
anafdez baza@cardiovascularcelltherapy.com

TECHNICAL SECRETARIAT

Marta Hurtado Martín
Francisco Matarín Uclés
Hospital General Universitario Gregorio Marañón
C/ Doctor Esquerdo, 46. 28007 Madrid
T. 00 34 91 586 82 86 / F. 00 34 91 586 82 76

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