

GENERAL INFORMATION

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Fundación **pro**cnic

ORGANIZERS

DATES

Madrid, November 8-9, 2013



Fundación **pro**cnic

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VENUE



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CENTRO NACIONAL
DE INVESTIGACIONES
CARDIOVASCULARES (CNIC)

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CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES (CNIC)
Melchor Fernández Almagro, 3 - 28029 Madrid, Spain

Cardiovascular Development, Disease and Repair

Madrid, November 8-9, 2013
www.cnic-conference.com

organizers

José A. Enríquez
Richard Harvey
Nadia Mercader
Simón Méndez-Ferrer

Friday, November 8th

- 08:30-08:50 Registration
08:50-09:00 Opening by Dr. Miguel Torres and CNIC Conference Organizers.

Session I Cardiovascular development, disease and adult homeostasis I

Chair: Nadia Mercader

- 09:00-09:30 **Margaret Buckingham.** Institut Pasteur. Paris, France.
“Cells that form the mammalian heart: a lineage tree for the myocardium”
The EMBO Lecture
- 09:30-10:00 **Didier Stainier.** Max Planck Institute für Herz- und Lungenforschung, Bad Nauheim, Germany.
“Cardiovascular development in zebrafish”
- 10:00-10:15 **Short talk:**
Emilie Heckel. Vermot group, IGMBC, Strasbourg, France.
“Mechanodetection of hemodynamic forces in the developing endocardium”
- 10:15-10:30 **Short talk:**
L.A. Trinh. Fraser group, University of Southern California, Los Angeles, USA.
“Uncoupling left-right asymmetries in f-actin dynamics during heart tube formation.”
- 10:30-11:00 Coffee Break

Chair: Jose Luis de la Pompa

- 11:00-11:30 **Jonathan Epstein.** University of Pennsylvania. Philadelphia, USA.
“Hopx, HDACs, and cardiac progenitor cells”
- 11:30-12:00 **Roger Patient.** Weatherall Institute of Molecular Medicine. University of Oxford. Oxford, United Kingdom
“Does cardiac regeneration recapitulate development?”
- 12:00-12:15 **Short talk:**
Gaetano D’Ámato. De la Pompa group, CNIC, Madrid, Spain.
“Sequential Notch Activation During Cardiac Chamber Development and Disease”
- 12:15-12:30 **Short talk:**
Miguel Torres. CNIC, Madrid, Spain.
“Cell Competition in Cardiac Development”
- 12:30-13:45 Lunch

Friday, November 8th

Session II Cardiovascular development, disease and adult homeostasis II

Chair: José Antonio Enríquez

- 13:45-14:15 **Kinya Otsu.** King's College London. London, United Kingdom.
“Sterile inflammation and heart failure”
- 14:15-14:45 **Robert S. Balaban.** National Heart Lung and Blood Institute. Bethesda, Maryland. USA
“The system biology of the cardiac mitochondrion”
- 14:45-15:00 **Short talk:**
Rebeca Acín. J.A. Enriquez group, CNIC, Spain.
“Regulation of mitochondrial dynamics to prevent heart damage”
- 15:00-15:15 **Short talk:**
Tim Wai. Langer group. University of Cologne, Germany.
“Proteolytic regulation of mitochondrial quality and dynamics in the adult heart”
- 15:15-16:15 Coffee Break and Poster exhibition (Poster numbers: 1-13)

Session III Stem cells and cardiovascular repair mechanisms I

Chair: Miguel Manzanares

- 16:15-16:30 **Short talk:**
James Martin. Baylor College of Medicine, USA.
“Hippo Signalling in heart regeneration”
- 16:30-16:45 **Short talk:**
Ignacio Flores. CNIC, Madrid, Spain.
“Telomerase supports zebrafish telomere rejuvenation and heart regeneration”
- 16:45-17:15 **Mauro Giacca.** International Centre for Genetic Engineering and Biotechnology, Trieste, Italy.
“MicroRNAs promoting cardiomyocyte proliferation and cardiac regeneration in vivo”
- 17:15-17:45 **Eric Olson.** UT Southwestern Medical Center. Dallas, USA.
“New insights into the transcriptional circuits of heart regeneration”

Saturday, November 9th

Session IV Stem cells and cardiovascular repair mechanisms II

Chair: Simón Méndez-Ferrer

- 09:00-09:30 **George Daley.** Boston Children's Hospital. USA.
“The heartbeat as a trigger for hematopoietic development”
- 09:30-10:00 **Gordon Keller.** University of Toronto, Ontario, Canada.
“Directed differentiation of human pluripotent stem cells to the cardiovascular lineages”
- 10:00-10:30 **Richard Harvey.** Victor Chang Cardiac Research Institute, Darlinghurst NSW, Australia.
“Cardiac MSC-like cells and heart rejuvenation”
- 10:30-10:45 **Short talk:**
Mara Martín Alonso. CNIC, Madrid, Spain.
“MT4-MMP is required for proper vessel wall structure and function in vivo”
- 10:45-11:00 **Short talk:**
Lorena Arranz. CNIC, Madrid, Spain.
“Sympathetic neuropathy of the haematopoietic stem cell niche is essential for myeloproliferative neoplasms”
- 11:00-12:00 Coffee Break and Poster exhibition (Poster numbers: 14-23)

Chair: Miguel Torres

- 12:00-12:30 **Lior Zangi.** Harvard Medical School. Boston, Massachusetts. USA
“Driving in vivo heart progenitor cell fate and vascular regeneration via modified mRNA”
- 12:30-12:45 **Short talk:**
Pablo Gómez del Arco. CNIC, Madrid, Spain.
“NuRD complex controls striated muscle differentiation”
- 12:45-13:15 **Michael Laflamme.** Institute for Stem Cell and Regenerative Medicine. University of Washington, USA.
“Electromechanical integration of stem cell-derived grafts”
- 13:15-13:45 **Roger Hajjar.** The Mount Sinai Medical Center. New York, USA.
“Novel therapies in heart failure targeting Ca²⁺ cycling”
- 13:45-14:00 Concluding remarks and farewell