

GENERAL INFORMATION

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Fundación **pro**cnic

ORGANIZERS



Fundación **pro**cnic



DATES

Madrid, November 3-4, 2017

VENUE

CENTRO NACIONAL
DE INVESTIGACIONES
CARDIOVASCULARES (CNIC)

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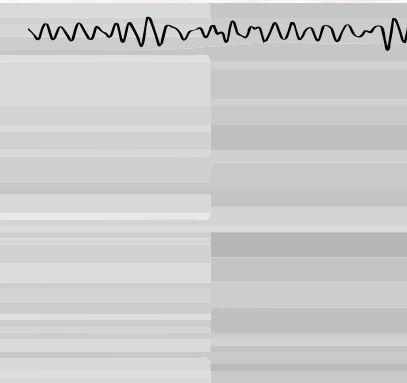
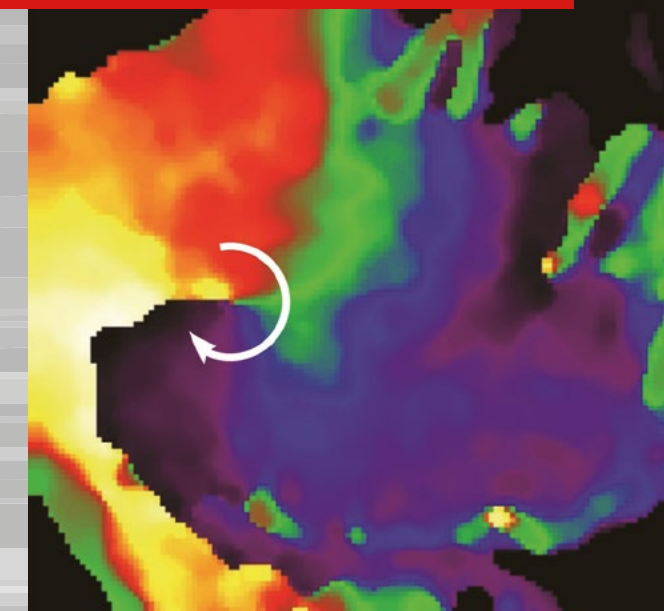
TECHNICAL SECRETARIAT



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Madrid, November 3-4, 2017
www.cnic-conference.com



organizers

David Filgueiras
José Jalife
Miguel Manzanares
Stephane Hatem
(Sorbonne Université, Paris)

sponsored by:



venue:

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

Friday, November 3, 2017

- 08:00-08:30 Registration
08:30 Welcome
08:30-09:00 Opening talk: **Borja Ibáñez**, CNIC Clinical Research Director

Session I - AF in populations, genomics and epigenetics

Discussion leaders: Guadalupe Sabio, Miguel Manzanares

- 09:00-09:30 **Emelia Benjamin**. Boston University School of Medicine, USA
"Can we prevent atrial fibrillation?"
- 09:30-10:00 **Patrick Ellinor**. Harvard University, Boston, USA
"Emerging directions in the genetics of atrial fibrillation"
- 10:00-11:00 **Coffee break & poster session**
- 11:00-11:30 **Vincent Christoffels**. University of Amsterdam, Holland
"Transcriptional control of cardiac electrical patterning"
- Selected short talks**
- 11:30-11:45 **Rosa Doñate**. INMG, University of Lyon, France
"Atrial structural remodeling gene variants in patients with atrial fibrillation"
- 11:45-12:00 **Raquel Rouco**. Center for Arrhythmia Research, USA, and CNIC, Spain
"Genomic expression during atrial fibrillation progression in a sheep model of persistent AF"
- 12:00-13:30 **Poster session & Lunch**

Session II - Pathogenesis of AF

Discussion leaders: Juan Bernal, Juan Tamargo

- 13:30-14:00 **Ulrich Schotten**. University of Maastricht, Holland
"The multifactorial pathogenesis of atrial remodelling and atrial fibrillation"
- 14:00-14:30 **Barbara Casadei**. Oxford University, UK
"Atrial fibrillation and cardiomyopathy: the chicken or the egg?"

Selected short talks

- 14:30-14:45 **Sandra Hoffmann**. Institute of Human Genetics, Heidelberg, Germany
"SHOX2 – A promising candidate gene for atrial fibrillation"
- 14:45-15:00 **Diego Franco**. University of Jaen, Spain
"Hyperthyroidism, but not hypertension, impairs PITX2 expression leading to Wnt-microRNA-ion channel remodeling"

Session III - Altered metabolism and atrial adiposis

Discussion leaders: Julian Pérez-Villacastín, Javier Saiz

- 15:00-15:30 **Sander Verheule**. University of Maastricht, Holland
"Metabolic impact of AF"
- 15:30-16:00 **Stephane Hatem**. Sorbonne Université, Paris, France
"Cardiac adipose tissue and atrial fibrillation"
- Selected short talks**
- 16:00-16:15 **Alexey Kulikov**. Cardiology Research And Production Complex, Moscow, Russia
"Electrophysiologic study of atrioventricular conduction and electrophysiological parameters of atria in patients with long-standing persistent atrial fibrillation undergoing surgical correction of mitral valve pathology combined with 'maze IIIB' procedure"
- 16:15-16:30 **Miguel Rodrigo**. Universitat Politècnica de Valencia, Spain. Stanford Hospital and Clinics, USA
"Driver location by body surface and endocardial basket mapping of human atrial fibrillation"
- 16:30-17:30 **Coffee break & poster session**

Session IV - Genes, ion channels and gene therapy in AF

Discussion leaders: Felipe Atienza, David Filgueiras

- 17:30-18:00 **Eva Delpón**. Complutense University, Madrid, Spain
"Novel ion channel modifying genes in atrial fibrillation"
- 18:00-18:30 **Dobrimir Dobrev**. University of Duisburg-Essen, Germany
"Molecular basis and role of dysregulated Ca²⁺-dependent K⁺ channels in AF patients"
- 18:30-19:00 **Rishi Arora**. Northwestern University, Chicago, USA
"Novel gene therapy approaches to target electrical and structural remodeling in atrial fibrillation"

Saturday, November 4, 2017

Session V - The rotor substrate in silico, ex vivo and in humans

Discussion leaders: Francisco García-Cosío, David Calvo

- 08:30-09:00 **Natalia Trayanova**. Johns Hopkins University, Baltimore, USA
"AF rotors in the fibrotic substrate"
- 09:00-09:30 **Omer Berenfeld**. University of Michigan, USA
"Spatio-temporal AF excitation patterns in the frequency and phase domains"
- 09:30-10:00 **Sanjiv Narayan**. Stanford University, USA
"Rotational drivers in clinical atrial fibrillation"
- 10:00-10:30 **Stefan Luther**. Max Planck Institute, Göttingen, Germany
"Electromechanical vortex filaments during cardiac fibrillation"
- 10:30-11:00 **Coffee break**

Session VI - The real world in today's AF therapy

Discussion leaders: Jesús Almendral, José Luis Merino

- 11:00-11:30 **John Camm**. St George's University of London, UK
"The classification of atrial fibrillation: research, guidelines, clinical practice and back again"
- 11:30-12:00 **Meleze Hocini**. University of Bordeaux, France
"AF ablation guided by noninvasive mapping: from stepwise to rotor ablation"
- 12:00-12:30 **Karl Heinz Kuck**. University of Hamburg, Germany
"What have we learned of ablation procedures for atrial fibrillation?"
- 12:30-13:00 **Round up, prizes and farewell**