

# GENERAL INFORMATION

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Fundación **pro**cnic

## ORGANIZERS



Fundación **pro**cnic



## SPONSORS



## DATES

Madrid, November 3-4, 2017

## VENUE

CENTRO NACIONAL  
DE INVESTIGACIONES  
CARDIOVASCULARES (CNIC)

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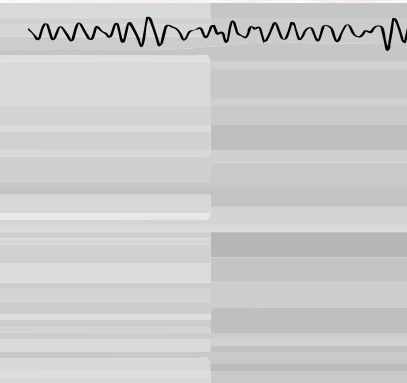
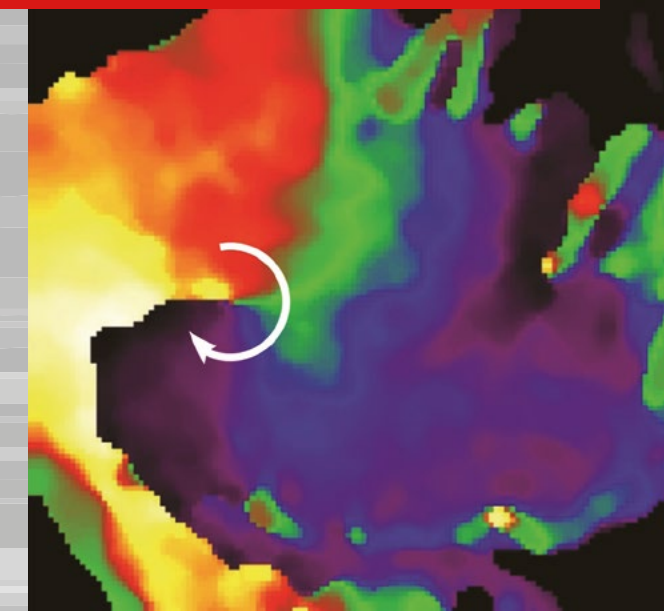
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Madrid, November 3<sup>rd</sup>-4<sup>th</sup>, 2017  
[www.cnic-conference.com](http://www.cnic-conference.com)



## 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: **Valentin Fuster**, CNIC General 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

- 18:00-18:30 **Dobrimir Dobrev**. University of Duisburg-Essen, Germany  
*"Novel ion channel modifying genes in atrial fibrillation"*
- 18:30-19:00 **Rishi Arora**. Northwestern University, Chicago, USA  
*"Molecular basis and role of dysregulated Ca<sup>2+</sup>-dependent K<sup>+</sup> 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 **Karl Heinz Kuck**. University of Hamburg, Germany  
*"What have we learned of ablation procedures for atrial fibrillation?"*
- 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 **John Camm**. St George's University of London, UK  
*"The classification of atrial fibrillation: research, guidelines, clinical practice and back again"*
- 12:30-13:00 **Round up, prizes and farewell**