

# ATRIAL SIGNALS 2019

Physicians meet Engineers

OCTOBER  
14-15, 2019

FINAL PROGRAM

Cité Mondiale  
Congress Center

Bordeaux

[www.atrialsignals-at-liryc.com](http://www.atrialsignals-at-liryc.com)

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to the complex*



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# ATRIAL SIGNALS

## Physicians meet Engineers

We are pleased to welcome you to the 3rd Atrial Signals Congress in Bordeaux.

The field of Electrophysiology and Catheter Ablation is rapidly evolving and expanding with profound changes in indications, techniques and technologies. Atrial Signals aims to focus on the refined art of electrical signals, from their genesis in the cell to the tissular and organ level, included in diseased heart. Technology and engineers develop methods to extract information from signals, displaying information, finally to be interpreted by clinicians and biomedical scientists. With the ultimate goal of delivering better care to human beings, we will investigate the field of complex arrhythmias, providing access to the best scientific knowledge.

We wish you a pleasant Congress!

[www.atrialsignals-at-liryc.com](http://www.atrialsignals-at-liryc.com)



# 2019

### ORGANIZING COMMITTEE

E. ANTER, Boston, USA  
O. BERNUS, Bordeaux, FR  
F. CASTELLS, Valencia, SP  
H. COCHET, Bordeaux, FR  
O. DOSSEL, Karlsruhe, GER  
R. DUBOIS, Bordeaux, FR  
M. HAISSAGUERRE, Bordeaux, FR  
M. HOCINI, Bordeaux, FR  
P. JAIS, Bordeaux, FR  
J. MILLET ROIG, Valencia, SP  
J. OSCA, Valencia, SP  
M. POTSE, Bordeaux, FR  
C. SCHMITT, Karlsruhe, GER  
E. VIGMOND, Bordeaux, FR

### LOGISTICS / PARTNERSHIPS & TECHNICAL ORGANIZATION

#### OVERCOME

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Cité Mondiale  
Congress Center  
**Bordeaux**  
**OCTOBER 14-15, 2019**

# MONDAY, OCTOBER 14, 2019

08:30 Welcome and program overview

08:35 Basics in EP, clinical translation

*Chairs: O. Bernus, Bordeaux - FR - O. Dossel, Karlsruhe - GER*

08:35 Genesis of electrograms

*B. Boukens, Amsterdam - NL*

08:50 P wave complexity

*M. Potse, Bordeaux - FR*

09:05 Physiopathology of AF

*D. Dobrev, Essen - GER*

09:20 Role of energetics

*P. Pasdois, Bordeaux - FR*

09:35 Role of fat infiltration, cellular, tissular and EP consequences

*S. Hatem, Paris - FR*

09:55 Audience Q&A

10:10-10:40 Coffee break and posters in the exhibition area

10:40 Closing the Gap with HD-Mapping  
*Symposium with the partnership of ABBOTT*

*Chairs: D. Poindron, Melun - FR - J. Moreno, Madrid - SP*

10:40 HD Mapping for Atrial Tachyarrhythmias

*J. Moreno, Madrid - SP*

11:00 HD Mapping for AF Ablation – Do you still need a Circular Mapping Catheter?

*M. De Guillebon, Pau - FR*

11:20 HD-mapping and signal processing – where can we take this?

*S. Kim, New York - USA*

11:40 Anatomy and safety

*Chairs: J.-A. Cabrera, Madrid - SP - D. Shah, Geneva - SWI*

11:40 Atrial Anatomy relevant to AF

*J.-A. Cabrera, Madrid - SP*

11:50 My tricks to improve AF ablation safety

*T. Rostock, Mainz - GER*

12:00 MR fibrosis is the target: pro/con *N. Marrouche, Salt Lake City - USA - D. Shah, Geneva - SWI*

12:20 Audience Q&A

12:30 Keynote lecture

*Chair: J. Duchateau, Bordeaux - FR*

12:30 Principles, techniques, and pitfalls of entrainment

*D. Shah, Geneva - SWI*

13:00-14:00 Lunch in the exhibition area

14:00 State of the art in mapping

*Chairs: E. Anter, Boston - USA - J. Millet Roig, Valencia - SP*

14:00 Spectrum of signal processing techniques in AF

*R. Dubois, Bordeaux - FR*

14:15 Impact of electrode size and distance of EGMs

*S. Basu, Los Angeles - USA*

14:25 How mapping systems are determining local activation time?

*S. Kim, New York - USA - S. Capellino, Toulouse - FR, M. Bar-Tal, Haifa - ISR*

14:40 Understanding and quantitative analysis of fragmented and fractionated EGMs

*O. Dossel, Karlsruhe - GER*

14:55 Audience Q&A

15:10 Coherent mapping - Simplifying the complex with intelligent mapping  
*Symposium with the partnership of BIOSENSE WEBSTER*

*Chairs: P. Jais, Bordeaux - FR - D. Shah, Geneva - SWI*

15:10 Coherent mapping - What does it bring different?

*E. Anter, Boston - USA*

15:50 Coherent mapping - Simplify the Complex

*A. Bulava, Ceske Budejovice - CZ*

16:10-16:40 Coffee break in the exhibition area

16:40 Drugs and devices

*Chairs: E. Anter, Boston - USA - F. Castells, Valencia - SP*

16:40 Energy harvesting

*A. Makdissi, Antony - FR*

16:55 High definition long duration cardiac monitoring  
*With the partnership of BIOTRONIK*

*D. Lau, Adelaide - AU*

17:10 IA for AF

*Y. Fleureau, Paris - FR*

17:25 Connect your heart rhythm

*S. Ploux, Bordeaux - FR*

17:40 Audience Q&A

# TUESDAY, OCTOBER 15, 2019

08:30 Should persistent AF ablation be guided by Electrograms?

*Chairs: D.G. Latcu, Monaco - C. Schmitt, Karlsruhe - GER*

08:30 Evidence for rotors in AF from basic science

*O. Bernus, Bordeaux - FR*

08:40 AF computer models

*O. Dossel, Karlsruhe - GER*

08:50 Non invasive mapping of rotors & other mechanisms

*M.-S. Guillem, Valencia - SP*

09:00 Ablation of AF drivers

*J. Seitz, Marseille - FR*

09:10 Cryo Veins and box lesion

*G. Borio, Brussels - BEL*

09:20 Alternative to electrogram guided approach

*T. Pambrun, Bordeaux - FR*

09:30 Audience Q&A

09:50-10:20 Coffee break and posters in the exhibition area

10:20 Mapping beyond local activation time

*Chairs: A. Luik, Karlsruhe - GER - P. Maury, Toulouse - FR*

10:20 Omnidirectional mapping

*A. Porta-Sanchez, Madrid - SP*

10:35 Lumipoint

*S. Capellino, Toulouse - FR*

10:50 Coherent

*M. Bar-Tal, Haifa - ISR*

11:05 LAVA

*F. Sacher, Bordeaux - FR*

11:20 Endocardial rotational activities

*D.-G. Latcu, Monaco*

11:35 Left Atrial Tachycardia - how to identify critical areas for future arrhythmias

*A. Luik, Karlsruhe - GER*

11:50 EP systems Vs navigation systems: pro/con

*M.-E. Matthiesen, Copenhagen - DEN, E. Anter, Boston - USA*

12:05 Audience Q&A

12:15-13:20 Coffee break in the exhibition area

13:20 Keynote lecture

*Chair: M. O'Neill, London - UK*

13:20 The science of Electrograms to guide ablation

*W. Jackman, Oklahoma City - USA*

# TUESDAY, OCTOBER 15, 2019

14:00 Non-invasive mapping and imaging

*Chairs: E. Anter, Boston - USA - H. Cochet, Bordeaux - FR*

14:00 Imaging based mapping

*H. Cochet, Bordeaux - FR*

14:10 Imaging based simulation

*N. Cedilnik, Nice - FR*

14:20 Improved gap detection at MR

*M. O'Neill, London - UK*

14:40 Audience Q&A

15:00 Presentation of the 3 best posters

*Chairs: F. Castells, Valencia - SP - M. Potse, Bordeaux - FR*

15:30-16:00 Coffee break in the exhibition area

16:00 Ablation in the near future and beyond...

*Chairs: W. Jackman, Oklahoma City - USA - P. Maury, Toulouse - FRA*

16:00 Mapping of complex VT

*P. Maury, Toulouse - FR*

16:10 Cryoballoon is best for AF paroxysmal ablation

*S. Boveda, Toulouse - FR*

16:20 Super Cryo is even better

*M. Hocini, Bordeaux - FR*

16:30 Will electroporation be superior?

*P. Jais, Bordeaux - FR*

16:40 RF has a great future with the sphere

*E. Anter, Boston - USA*

16:50 The future of AF ablation is non invasive: pro/con

*P. Cuculich, Saint Louis - USA - R. Martins, Rennes - FR*

17:10 Audience Q&A

17:20 Closing remarks

# GENERAL INFORMATION

## CONGRESS VENUE

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Cité Mondiale Congress Center  
18 parvis des Chartrons - 33080 BORDEAUX, France

## LOGISTICS & REGISTRATIONS

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OVERCOME: 13-15 rue des Sablons, 75116 PARIS, France  
Tel: +33 (0)1 40 88 97 97 - Email: atrialsignals@overcome.fr

## CLOAKROOM

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A free cloakroom is available to all participants, during the opening hours of the Congress. Please make sure that no personal belongings are left after closing each day.

## INTERNET ACCESS

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Free of charge Wi-Fi will be available for registered delegates at the Cité Mondiale Congress Center.

Search for CEB\_Congressistes and connect. The key is 123456789. The login and the password are AS19.

## COFFEE BREAKS & LUNCHES

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Coffee breaks and lunches are included in the registration fee. They will take place in the exhibition area.

## POSTERS

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Posters are located in the exhibition. The area will be open all Congress long until Tuesday, October 15, 16:00.

The 3 best posters will be presented on Tuesday, at 15.00, and the best oral presentation will get the Congress Poster Prize, in partnership with BOSTON SCIENTIFIC.

## SPEAKER PREVIEW ROOM

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The speaker preview room is in the control room, at the top of Brisbane amphitheater. Speakers have to go to the preview room at least one hour before their talks.

## LANGUAGE

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English is the official language of the Congress.



# GENERAL INFORMATION

## CURRENCY

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The national currency in France is the EURO (1 Euro = 100 Cents). Coins of 1, 2 and 5 Cents are copper-colored; coins of 10, 20 and 50 Cents are gold-colored; 1 and 2 Euro coins are gold and silver colored. Euro notes come in denomination of 5, 10, 20, 50, 100, 200 and 500. Credit cards as well as most major currencies are widely accepted. For currency exchange, please ask your hotel for further information.

## LOST AND FOUND

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Lost items have to be returned to the Congress welcome desk.

## REMINDER

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Participants must wear their badges both inside the conference room and in the exhibition area.

Please note that smoking is prohibited by law within the Congress premises.

Participants are kindly requested to turn off their mobile phones when entering the meeting rooms.

## REGISTRATION

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	Onsite registration
Physicians & scientists	400€
Students & residents	300€

## REGISTRATION FEES INCLUDE

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Attendance at the scientific sessions on Monday, October 14 and on Tuesday, October 15 - Congress documents - Entrance in the exhibition and poster area - Coffee breaks and lunches

## CERTIFICATE OF ATTENDANCE

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Your certificate of attendance will be sent to you by email after the Congress.

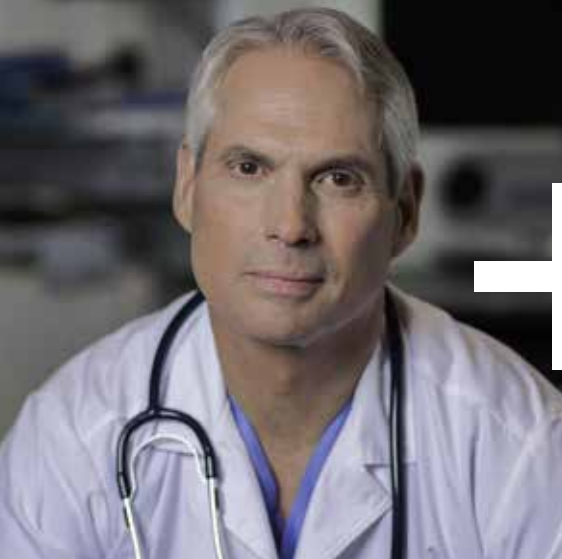
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Prior to use, please see the complete Directions for Use at [www.bostonscientific.com](http://www.bostonscientific.com) for more information on Indications, Contraindications, Warnings, Precautions, Adverse Events, and Operator's Instructions.  
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