

# **STAFF-MALT MEETING 2025**



## **Scientific Program**

**Balneario de Panticosa, Huesca, Aragón, Spain**

**1-4 October 2025**

## **STAFF-MALT meetings organizing committee**

**Staff G. Warren**

Anne Arundel Medical Center, Annapolis, United States

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**Ton Gorgels**

Universiteit Maastricht, Maastricht, The Netherlands

**Ksenia Sedova**

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**Alba Martín-Yebra**

Universidad de Zaragoza, Zaragoza, Spain

## **Local Organizing Committee**

Pablo Laguna, Chairperson

Alba Martín Yebra, Co-Chairperson

The organizers would like to thanks the following partners that supported the meeting

- *John & Eva Wang*
- *Instituto de Investigación en Ingeniería de Aragón- I3A*



Instituto Universitario de Investigación  
en Ingeniería de Aragón  
Universidad Zaragoza

## ***Welcome to STAFF-MALT 2025***

A warm welcome to all participants!

The Symposium will include participants from eight countries, and this will be the 21th meeting of both STAFF and MALT, which have now become combined in STAFF-MALT with the shared link being the interface of the electrocardiogram from a focus on ischemia (STAFF) and imaging (MALT).

Mentoring of young investigators and collaboration between researchers across international boundaries and between different disciplines have been guiding principles of both STAFF and MALT, fostered by keeping the Symposium invitational and limited in the number of participants.

We are looking forward to an excellent program in an idyllic setting!

Enjoy....

***Staff Warren, MD, FACC***

## ***Welcome to Balneario de Panticosa***

It is a great pleasure to welcome you to the 21st edition of the STAFF/MALT Symposium, in Balneario de Panticosa in the heart of the Pyrenees, located in Huesca province, north of Aragón, Spain, inside the Tena Valley, at an altitude of 1.636 m surrounded by impressive mountains of over 3.000 m.

We are very happy to host for the second time (after Albarracín in 2006) the STAFF/MALT Symposium, and to support and incentivize scientific discussions across disciplines dealing with cardiac system study. This is very much the spirit Galen Wagner gave when creating this “University without walls”-inspired Symposium, and we believe it remains fully operational crossing the disciplines and moving from multidisciplinary to real interdisciplinarity.

We thank all participants for enabling the setup of this very exciting program and the sponsors who made the Symposium financially possible.

***Alba Martin and Pablo Laguna, chairpersons of the local committee program.***

## SCIENTIFIC PROGRAM STAFF - MALT MEETING #21

### WEDNESDAY, OCTOBER 1, 2025

	18:00	19:30	<i>Reception</i>
	19:30	22:00	<i>Welcome Cocktail</i>

### THURSDAY, OCTOBER 2, 2025

	7:30	8:00	<i>Breakfast</i>
	8:15	8:30	<i>Opening: Staff Warren (Annapolis, MD) &amp; Pablo Laguna (Zaragoza, ES)</i>

#### **SESSION 1: Modeling & Simulation**

**Chairs: Jose Félix Rodríguez (Milan, IT) & Ton Gorgels (Maastricht, NL)**

1	8:30	9:00	<i>Vito Starc, Detection of acute myocardial ischemia with moving equivalent dipole vectorcardiography in the STAFF database cases with nearly absent 12-lead ECG signs.</i>
2	9:00	9:30	<i>Maria Guillem, Imageless Electrocardiographic Imaging. Fundamentals and applications.</i>
3	9:30	10:00	<i>Brian Swinnen, (YI: Ton Gorgels), Interim results of the use of the Cine-ECG in the PRIMARY study.</i>
4	10:00	10:30	<i>Dr. Žiga Pokorn, (YI: Vito starc) Moving equivalent dipole vectorcardiography in the detection of the pre-excitation in pediatric patients.</i>
	10:30	10:45	<i>Break</i>
5	10:45	11:15	<i>Jose Félix Rodríguez, In silico assessment of drug cardiotoxicity.</i>

#### **SESSION 2: Atrial Fibrillation**

**Chairs: Pyotr Platonov (Lund, SE) & Valentina Corino (Milan, IT)**

6	11:15	11:45	<i>Leif Sörnmo, The long and winding road in search of the perfect atrial fibrillation detector.</i>
7	11:45	12:15	<i>Hugo Hernández, (YI: Juan Pablo Martínez) Characterization of atrial spatiotemporal dynamics for prediction of AF recurrence after ablation.</i>
8	12:15	12:45	<i>Livia Colucci, (YI: Leif Sörnmo), Screening-based outcome prediction and risk stratification in atrial fibrillation patients.</i>

	13:00	22:00	<i>Lunch, Social Program &amp; Diner</i>
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## FRIDAY, OCTOBER 3, 2025

	7:30	8:15	<b>Breakfast</b>
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### **SESSION 3: Depolarization and Repolarization Assessment**

**Chairs: Alba Martín (Zaragoza, ES) & Marina Demidova (Lund, SE)**

9	8:30	9:00	<b>Elena Arbelo</b> , <i>Prediction of Sudden Cardiac Death in Brugada Syndrome.</i>
10	9:00	9:30	<b>Sofia Romagnoli</b> , <i>Quantification of delayed activation in right ventricular outflow tract in Brugada patients.</i>
11	9:30	10:00	<b>Angela Hernandez</b> , (YI: <b>Ana Mincholé</b> ), <i>Sex and menopause-specific ECG repolarization patterns.</i>
12	10:00	10:30	<b>Lennart Bergfeldt</b> , <i>Adaptation of repolarization duration and dispersion to changes in heart rate – mono exponential vs roller-coaster-like – implications and knowledge gaps.</i>
	10:30	10:45	<b>Break</b>

### **SESSION 4: Artificial Intelligence**

**Chairs: Juan Pablo Martínez (Zaragoza, ES) & Ana Mincholé (Zaragoza, ES)**

13	10:45	11:15	<b>Agnese Sbrollini</b> , <i>AI basics: terminology and algorithms.</i>
14	11:15	11:45	<b>Kees Swenne</b> , <i>AI applications in electrocardiology.</i>
15	11:45	12:15	<b>Sara Artal Gracia</b> , (YI: <b>Juan Pablo Martínez</b> ) <i>Optimising cardiovascular risk estimation using ECG-based large-scale self-supervised pre-trained AI models.</i>
16	12:15	12:45	<b>Eduardo Caballero Saldivar</b> , (YI: <b>Julia Ramírez</b> ) <i>Long-term Prediction of Heart Failure using an ECG-Based Fine-tuned Self-Supervised Neural Network Model Identifies 23 Genetic Loci Implicating.</i>
17	12:45	13:15	<b>Lucia Vavassori</b> , (YI: <b>Raphael Schneider</b> ) <i>Machine Learning-Driven Algorithm for Improved Detection of Brief Cardiac Arrhythmias in Implantable Cardiac Monitor Devices.</i>
	13:15	14:15	<b>Lunch</b>

### **SESSION 5: Genetics & Congenital Heart Diseases**

**Chairs: Elena Arbelo (Barcelona, ES) & Staff Warren (Annapolis, MD)**

18	14:15	14:45	<b>Meri Gjika</b> , (YI: <b>Agnese Sbrollini</b> ), <i>Genetics of Atrial fibrillation.</i>
19	14:45	15:15	<b>Daniel Cortez</b> , <i>EKG/VCG predictors of Fontan pressures or predictors of pulmonary hypertension in ASD patients.</i>
20	15:15	15:45	<b>Charlie Bingham</b> , (YI: <b>Daniel Cortez</b> ), <i>EKG/VCG predictors of pacemaker-mediated cardiomyopathy in patients with congenital heart disease.</i>
21	15:45	16:15	<b>Aleksei Savelev</b> , (YI: <b>Pyotr Platonov</b> ), <i>Risk prediction in concealed Long QT Syndrom.</i>
	16:15	16:30	<b>Break</b>

## **SESSION 6: Ischemia and other ECG Signatures**

**Chairs: Leif Sörnmo (Lund, SE) & Kees Swenne (Leiden, NL)**

22	16:30	17:00	<i>Valentina Corino, Differentiating cardiac pathologies by integrating ECG analysis and MRI data.</i>
23	17:00	17:30	<i>Marjolein de Jongh, (YI: Kees Swenne/Agnese Sbrollini), Serial analysis of diagnostic resting ECGs in post-infarction patients to detect the emergence of heart failure.</i>
24	17:30	18:00	<i>Krzysztof Malinowski, Normal ECG and how to classify diseases.</i>

	18:00	18:30	<i>Wrap up: Staff Warren (Annapolis, MD)</i>
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	20:00	22:00	<i>Closing dinner</i>
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## **SATURDAY, OCTOBER 4, 2025**

	7:30	10:00	<i>Closing breakfast</i>
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## ***List of participants***

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