



European
Reference
Network
for rare or low prevalence
complex diseases

Network
Heart Diseases
(ERN GUARD-HEART)

ERDERA

European **Rare Diseases**
Research Alliance

International Symposium on Pediatric Inherited Cardiac Disorders

14 – 16 October 2026



BRUPED NETWORKING EVENT

Management and update of Brugada
Syndrome in pediatrics

SJD **Sant Joan de Déu**
Barcelona · Hospital

WHEN EVERY HEARTBEAT MATTERS

An advanced, practice-oriented update on emerging therapies and ultra-rare inherited arrhythmia syndromes (IAS), with a special focus on **paediatric Brugada syndrome**. The program combines state-of-the-art lectures, real-world case discussions, artificial intelligence, remote monitoring, multidisciplinary expert panels, and hands-on arrhythmia simulation sessions.

LEARNING OUTCOMES

- Improve diagnosis and clinical management of IAS
- Refine risk stratification and decisions
- Apply AI and remote monitoring
- Integrate genetics and precision medicine
- Strengthen multidisciplinary care

REGISTRATION FEES

- New Therapies in inherited cardiac diseases in children: **€100**
- BRUPED Networking Event: **Free**
- Arrhythmia Course: **€100**
- Online International Symposium on Pediatric Inherited Cardiac Disorders (Exclusive for Latin America and LMIC countries professionals): **€200**
- https://bit.ly/Brugada_sjd



PRACTICAL INFORMATION

AIMED AT: Cardiologists, electrophysiologists, pediatricians, geneticists, nurses and multidisciplinary teams.

DIRECTORS: Dr. Georgia Sarquella-Brugada · Dr. Estefanía Martínez-Barrios

LOCATION: Auditorium PCCB, Sant Joan de Déu Education, Calle de Santa Rosa, 39-57, 08950 Esplugues de Llobregat

ACCREDITATION: European EAACME accreditation applied for (SEAFORMEC)

NEW THERAPIES IN INHERITED CARDIAC DISEASES IN CHILDREN

09:00-09:30	Gene therapy: dream or reality? TBC	Gene therapy
09:30-10:00	Gene Therapy for <i>PKP2</i>-Related Cardiomyopathy Dr. Alessia Argirò	Gene therapy
10:00-10:30	Gene therapy in Danon Disease Dr. Cordula Wolf	Gene therapy
10:30-11:00	Gene therapy in <i>MYBPC3</i>-Related Cardiomyopathy Dr. Georgia Sarquella-Brugada	Gene therapy
11:00-11:30	Coffee break	
11:30-11:50	Cardiac myosin inhibitors in children Dr. Sergi Cesar	Clinical trials
11:50-12:10	SGLT2 inhibitors in pediatrics Dr. Stella Pié	Clinical trials
12:10-12:30	Emerging Therapies for CPVT Dr. Andrea Greco	Clinical trials
12:30-12:50	Understanding TANGO2 Deficiency Disorder Dr. Agustín Luján	TANGO2
12:50-13:10	Cardiac impact of TANGO2 Deficiency Disorder Dr. Christina Miyake	TANGO2
13:10-13:30	Anaesthetic management of patients with TDD Dr. Montse Fontanals	TANGO2

BUILDING THE FUTURE OF PAEDIATRIC BRUGADA SYNDROME

The first European networking event dedicated to paediatric Brugada syndrome, bringing together clinicians, researchers, geneticists, data scientists, nurses, patient representatives, and early-career professionals. The program combines state-of-the-art lectures, multidisciplinary expert panels, collaborative networking, and hands-on workshops in electrocardiogram interpretation and paediatric electrophysiology, while laying the foundations of the European BRUPED Registry and the BRUPED-RISK precision medicine initiative.



This project has received funding from the European Union's Horizon Europe research and innovation programme under ERDERA programme GA N° 101156595.

WEDNESDAY, 14 · AFTERNOON

13:30-14:00 BRUPED Networking Event Welcome
Dr. Georgia Sarquella-Brugada

14:00-15:00 Lunch

Hands-on Workshop in Paediatric BrS (in parallel)

15:00-18:30 VUS Camp: Genetic Variant Interpretation

15:00-18:30 Pediatric Arrhythmias Bootcamp: Interactive ECG & Simulation

20:00 Speakers dinner

THURSDAY, 15 ·

09:00-09:30 The initial spark: how we described a new disease
Dr. Pedro Brugada

09:30-10:00 Brugada syndrome: 35 years of knowledge
Dr. Josep Brugada

10:00-10:30 The discovery of the first causing-gene
Dr. Ramon Brugada

10:30-11:00 pBrS: a different disease or an earlier phenotype?
Dr. Georgia Sarquella-Brugada

11:00-11:30 Coffee break

11:30-11:50 Clinical risk factors in BrS
Dr. Elena Arbelo

11:50-12:10 Remote monitoring in pBrS
Dr. Giulio Conte

12:10-12:30 Artificial Intelligence for Brugada Syndrome detection
Dr. Francesca Faraci

12:30-12:50 Polygenic risk score in BrS
Dr. Connie Bezzina

12:50-13:10 AI-based screening for provocative testing
Dr. Beatrice Zanchi

13:10-13:30 A Digital App for pBrS Management
Dr. Andrea Greco

13:30-13:50 The BRUPED Registry
Dr. Georgia Sarquella-Brugada

14:00-15:30 Lunch

15:30-16:30 Challenging cases in pBrS
Chairs: Josep, Pedro and Ramon Brugada

16:30-18:30 The Brugada Brothers' ECG masterclass
Dr. Josep Brugada · Dr. Pedro Brugada

20:00 Dinner

PROCEDURES AND DEVICES

09:00-09:20 Indications for cardioneuroablation in children

Dr. Fredy Chipa

09:20-09:40 New ICD technologies in children

Dr. Jose Carlos Cruzalegui

09:40-10:00 The challenge of miniaturization: BabyAveir

Dr. Stefano Congiu

10:00-10:20 Leadless systems for special cases

Dr. Bosco Moscoso

10:20-10:40 Lead extraction in children

Isaac Moll

10:40-11:00 MIC: intraoperative mapping

Dr. Alex Fernández

11:00-11:30 Coffee break

11:30-11:50 Ablations in newborns and infants

Dr. Georgia Sarquella-Brugada

11:50-12:10 A new era for remote monitoring

Núria Díez

12:10-12:30 Advances in genetic testing

Dr. Oscar Campuzano

12:30-12:50 Beyond basic genetics

Dr. Estefanía Martínez-Barrios

12:50-13:10 Fertility preservation and embryo selection

Dr. Valeria Donno

13:10-13:30 Hormones, sports and channelopathies

Dr. Andrea Greco

13:30-13:50 The missing piece: Why psychological care matters

Irene Zschaeck

13:50-15:00 Lunch

Hands-on Workshop in Pediatric BrS

15:00-18:30 Pediatric Arrhythmias Bootcamp:

Interactive ECG & Simulation

Speakers

Dr. Agustín Luján Pediatric Arrhythmias, Genetic Cardiology and Sudden Cardiac Death, SJD Barcelona Children's Hospital, Spain.

Dr. Alessia Argirò Department of experimental and clinical medicine, university of Florence, Florence, Italy

Dr. Álex Fernández Cardiac Surgery Department, SJD Barcelona Children's Hospital, Spain.

Dr. Andrea Greco Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Beatrice Zanchi University of Applied Sciences and Arts of Southern Switzerland, Department of Innovative Technologies, Lugano, Switzerland; University of Zurich, Department of Quantitative Biomedicine, Zurich, Switzerland

Dr. Bosco Moscoso Cardiac Surgery Department, SJD Barcelona Children's Hospital, Spain.

Dr. Christina Miyake Baylor College of Medicine and Texas Children's Hospital, Houston, USA.

Dr. Connie Bezzina Cardiovascular Sciences, Amsterdam UMC, The Netherlands.

Dr. Cordula Wolf Professor in Pediatrics, Department of Congenital Heart Disease and Pediatric Cardiology, Technical University Hospital German Heart Center, Munich, Germany

Dr. Elena Arbelo Hospital Clinic and University of Barcelona, Spain.

Dr. Eliza Cisteză Head of the Pediatrics Department, "Carol Davila" University of Medicine and Pharmacy, "Marie Curie" Emergency Children's Hospital. Coordinator of the Interventional Pediatric Cardiology Department, "Marie Curie" Emergency Children's Hospital

Dr. Estefanía Martínez-Barrios Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Francesca Faraci Biomedical Signal Processing Group, MeDiTech Institute. University of Applied Sciences and Arts of Southern Switzerland (SUPSI)

Dr. Fredy Chipa Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Georgia Sarquella-Brugada Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Giulio Conte Prof. Conte is Director of Cardiac Electrophysiology and Pacing Unit - Cardiocentro Ticino Institute Lugano (CH). Professor of Medicine - Faculty of Biomedical Sciences, Università della Svizzera Italiana (CH). Honorary Professor of Medicine - Faculty of Medicine, Vrije Universiteit Brussel, Brussels (BE).

Irene Zschaeck Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Isaac Moll Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. José Carlos Cruzalegui Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Josep Brugada Professor of Cardiology, University of Barcelona. SJD Barcelona Children's Hospital and Hospital Clinic, Spain.

Dr. Miguel Fogaça da Mata Serviço de Cardiologia Pediátrica, Hospital de Santa Cruz, Lisboa, Portugal.

Dr. Montse Fontanals Pediatric Cardiac Anesthesiologist, Department of Anesthesia, SJD Barcelona Children's Hospital, Spain.

Núria Díez Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Óscar Campuzano Medical Science Departmen, School of Medicine, University of Girona (UdG)

Dr. Pedro Brugada Prof. , Em. Dr. Pedro Brugada. Senior Consultant, Cardiovascular Division, UZ Brussel, Brussels, Belgium. Director, Arrhythmia Unit, Helicopteros Sanitarios Hospital, Puerto Banus, Malaga, Spain

Dr. Ramon Brugada Cardiovascular Genetics Center, IDIBGI, Girona, Spain.

Dr. Ruxandra Jurcut Carol Davila University of Medicine and Pharmacy, Bucharest, Romania.

Dr. Sergi Cesar Arrhythmia, Inherited Cardiac Diseases and Sudden Death Unit, SJD Barcelona Children's Hospital, Spain.

Dr. Stefano Congiu Cardiac Surgery Department, SJD Barcelona Children's Hospital, Spain.

Dr. Stella Pié Pediatric Cardiology Unit, Department of Pediatrics, SJD Barcelona Children's Hospital, Spain.

Dr. Valeria Donno Dexeus Fertility, Hospital Universitari Dexeus, Barcelona, Spain.