

# Bordeaux Summer School

## Percutaneous interventions in congenital heart diseases

June 26th – June 28th 2024



### In a nutshell

This summer school, dedicated to congenital heart diseases and percutaneous therapies, is open to international science and medical students, engineers and experienced researchers wishing to improve their background knowledge.

During the three day session, this course offers intensive practical classes about the technological aspects of CHD transcatheter interventions, from innovative concepts to clinical practice, including all aspects of device development.

Participants will meet with world leading experts in transcatheter interventions, imaging and biomaterials, as well as industrial stakeholders. They will also discover and use cutting-edge technologies and equipment.

### Teaching coordinators



Dr. Zakaria JALAL & Pr Jean-Benoît THAMBO

### Expertise upon completion

This summer school offers a unique opportunity for participants to acquire in-depth knowledge in congenital heart diseases.

A certificate of participation indicating the number of training hours completed will be awarded to students at the end of course.

Participants may count these hours towards their supplementary doctoral training programmes.

### Programme\*

#### Day 1 : June 26th

##### Ventricular septal defect

- › Anatomy – live demonstration of hearts specimens and ventricular septal defect
- › Cardiac physiology and remodeling in ventricular septal defects from basic principles to circadapt software application
- › Non invasive hemodynamic assessment : do we need a cath ?
- › Available devices for ventricular septal defects closure
- › Step by step percutaneous closure of ventricular septal defect
- › From the prototype to cathlab

#### Day 2 : June 27th

##### Imaging guidance in cathlab

- › Ultrasound imaging
- › MRI guided procedures
- › Fusion imaging
- › Biomaterial and visibility
- › Computational modeling and transcatheter procedures
- › Simulation workshops with transcatheter devices

#### Day 3 : June 28th

##### Startups day

- › Startups presentations
- › Workshop with startups developed devices

\*Programme may be subject to change.

## A panel of experts\*

\*Speakers may be subject to change.

Lecturers include leading clinicians and researchers in congenital heart diseases.

› **Younes Boudjemline, MD – PhD**  
Sidra Centre, Doha, Qatar

› **Gianfranco Butera, MD, PhD**  
Bambino Gesù Hospital, Rome, Italy

› **Claudio Capelli, Research Associate senior**  
University College London – London, England

› **Andrew Cook, MD, PhD**  
University College London – London, England

› **Silvia Farè, PhD**  
Politecnico di Milano, Italy

› **Mark Friedberg, MD, PhD – Visiting Professor at IHU Liryc,**  
SickKids Hospital – Toronto, Canada

› **Marc Gewillig, MD – PhD**  
Leuven UZ, Louvain, Belgium

› **Lucile Houyel, MD – PhD**  
Necker Hospital, Paris, France

› **Xavier Iriart, MD**  
Bordeaux University Hospital – IHU Liryc, Bordeaux, France

› **Zakaria Jalaï, MD – PhD**  
Bordeaux University Hospital – IHU Liryc, Bordeaux, France

› **Luc Mertens, MD – PhD**  
SickKids Hospital – Toronto, Canada

› **Guiti Malekzadeh-Milani, MD**  
Necker Hospital – Paris, France

› **Thomas Modine, MD – PhD**  
Bordeaux University Hospital, Bordeaux, France

› **Jean-Benoît Thambo, MD – PhD**  
Bordeaux University Hospital, Bordeaux, France

› **Olivier Villemain, MD – PhD**  
Bordeaux University Hospital – IHU Liryc, Bordeaux, France

## Why Bordeaux ?

Bordeaux boasts a long tradition of excellence in cardiovascular medicine, in particular with the creation of Liryc – the Heart Rhythm Disease Institute, led by Prof. Pierre Jais.

Liryc is a research, treatment, innovation and teaching institute. Its strength lies in its scientific expertise and close collaboration with world leading clinical teams.

Offering unique technology platforms with state-of-the-art equipment, the multidisciplinary teams at Liryc develop novel diagnostic tools, medical devices and innovative therapies.

The congenital heart disease team of Prof. Jean-Benoît Thambo is involved in several translational research and education programmes, especially in the field of percutaneous therapies.

As part of its mission to disseminate knowledge gained from research, Liryc is committed to university training in cardiovascular medicine with the University of Bordeaux.



## Practical information

**Dates :** June 26th – June 28th, 2024

**N° of participants :** 30

**Language :** Classes are conducted in English. Candidates should have at least a B2 level of English or equivalent.

**Location :** Classes take place at Liryc – the Heart Rhythm Disease Institute – Avenue du Haut-Lévêque, 33600 Pessac (France)

**Participant profile :** The course is tailored to graduate and doctoral science and medical students, as well as more experienced researchers wishing to improve their background in the field of congenital heart diseases.

**Applications :** To be completed online via our website [bss-congenital-heartdisease.u-bordeaux.fr](https://bss-congenital-heartdisease.u-bordeaux.fr)  
A CV and cover letter will be necessary.

**Deadline :** March 31st, 2024

**Participation fee :** 450€ per participant (including lunches, coffee breaks, accomodatin and social programme costs).