

Sixth European Society of Human Genetics Training Course on Cardiogenetics

May 14-17, 2022
Antwerp, Belgium
Auditorium Kinsbergen (route 12)
Antwerp University Hospital (UZA)

*This course aims at delivering up-to-date knowledge on cardiogenetics to cardiologists, genetic counselors, clinical and molecular geneticists in training or certified.
It creates the best opportunity for interaction and discussion with experts from all over Europe.
The faculty combines experts from many fields of cardiogenetics known for their didactic skills.
Participants are encouraged to present a clinical or genetic case in a Poster format for on-site discussion.*

Directors of the course:

Bill Newman (United Kingdom) and Bart Loeys, Johan Saenen (Belgium)

PROGRAM

Day 1 program: Saturday, May 14, 2022

THEME: **BASICS IN CARDIOGENETICS**

15:30 – 15:45	Course Introduction Bill Newman & Bart Loeys
15:45 – 16:15	A clinical geneticists' approach to inherited cardiac disorders Bart Loeys
16:15 – 16:45	Counselling considerations in inherited cardiac disorders Inge Goovaerts
16:45 – 17:15	A patient perspective on cardiogenetics Axel Verstrael
17:15 – 17:45	REFRESHMENT BREAK
17:45– 19:30	Genetic basics for Cardiologists Dorien Schepers Cardiology concepts for Geneticists Johan Saenen
19:30	SANDWICH dinner

Day 2 program: Sunday, May 15, 2022

THEME: *STRUCTURAL HEART and AORTIC DISORDERS*

09:00 – 10:00 Hypertrophic cardiomyopathy [Emeline Van Craenenbroeck](#)

10:00 – 11:00 Dilated Cardiomyopathy [James Ware](#)

11:00 – 11:30 **COFFEE BREAK**

11.30 – 12:00 Arrhythmogenic Right Ventricular Cardiomyopathy [Pieter Koopman](#)

12:00 – 13:00 Aortopathies [Bart Loeys](#)

13:00 – 14:00 **LUNCH**

14:00 – 15:00 Key Note Lecture - Management of inherited cardiac disorders in competitive and leisure athletes
[Hein Heidbuchel](#)

15:00 – 16:30 Pathology of inherited cardiac disorders with application of artificial intelligence
[Jan-Lucas Robertus](#)

16:30 – 17:00 **COFFEE BREAK**

17:00 – 18:30 Imaging workshop – echocardiography/Cardiac MRI
[Tevfik Ismail](#) -> cardiologist
[Caroline Van de Heyning](#) -> genetics

18:30 – 19:30 Case Discussion [Bart Loeys](#)/[Bill Newman](#)/[Johan Saenen](#)

20:00 **WALKING DINNER in UZA**

Day 3 program: Monday, May 16, 2022

THEME: *PRIMARY ELECTRICAL DISORDERS*

08:30 – 09:00 Developing an inherited cardiac service [Ed Blair](#)

09:00 – 09:30 Basic concepts in Ion channel disease [Johan Saenen](#)

09:30 – 10:00 Long & Short QT Syndromes [Johan Saenen](#)

10:00 – 10:30 Catecholaminergic polymorphic ventricular tachycardia [Pieter Koopman](#)

10:30 – 11:00 **COFFEE BREAK**

11:00 – 11:30 J-wave Syndromes [Schulze-Behr](#)

11:30 – 13:00 Electrophysiology workshop – ECG/Ex ECG/Ajmalin/Adrenalin testing
[Pieter Koopman](#) -> genetics
[Johan Saenen](#) -> cardiologist

13:00 – 14:00 **LUNCH**

14:00 – 14:30 Next generation sequencing – different approaches [Bart Loeys](#) & [Bill Newman](#)

14:30 – 15:00 Molecular autopsy [Bill Newman](#)

15:00 – 16:30 Workshop/Quiz NGS interpretation
[Lut Van Laer](#) -> genetics

Aline Verstraeten/Ilse Luyckx -> cardiology

16:30 – 17:00 COFFEE BREAK

17:00 – 18:15 Case presentations by Participants
Bart Loeys/ Bill Newman/Johan Saenen

18:15 Bus transfer to Hof Van Liere

19:00 COURSE DINNER AT Hof Van Liere (faculteitsclub)

Day 4 program: Tuesday, May 17, 2022

THEME: CONGENITAL HEART DISEASE

08:30 – 09:30 Heart embryology Marco De Ruyter

09:30 – 10:00 Genetics of Congenital Heart Disease Bert Callewaert

10:00 – 10:30 iPSC approaches to understand inherited cardiac disorders Maaïke Alaerts

10:30 – 11:00 COFFEE BREAK

11:00 – 11:45 Syndromic/metabolic inherited cardiac disorders Marije Meuwissen

11:45 – 12:15 Neuromuscular cardiomyopathy Emeline Van Craenenbroeck

12:15 – 13:00 Pregnancy and cardiogenetic disorders An Van Berendonck

13:00 – 14:00 LUNCH

14:00 – 15:00 Case presentation – Bill Newman/Bart Loeys/Johan Saenen

15:00 END OF COURSE Bart Loeys/Johan Saenen