Ninth European Society of Human Genetics Training Course on Cardiac Genetics



March 15-18, 2025 Manchester

This course aims at delivering up-to-date knowledge on cardiac genetics to cardiologists, genetic counsellors, 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 cardiac genetics known for their teaching skills. Participants are encouraged to present a clinical or genetic case for on-site discussion.

Directors of the course:

Bill Newman (Manchester) and Bart Loeys, Johan Saenen (Antwerp)

PROGRAM

Day 1 program: Saturday, March 15, 2025

THEME: BASICS IN CARDIOGENETICS

Soft drink/coffee + biscuit on arrival

15:30 – 15:45	Course Introduction Bill Newman & Bart Loeys
15:45 – 16:15	A clinical geneticist's approach to inherited cardiac disorders Bart Loeys
16:15 – 16.45	Psychological aspects of living with ICCs: babies to seniors Natalie Moreton (Manchester)
16:45 – 17:15	A patient perspective on cardiogenetics Becky Alexis Martin (Bradford)
17:15 - 17.30	Mystery Case Johan Saenen
17:30 – 18:00	REFRESHMENT BREAK (juice/water)
18:00– 19:30	Genetic basics for Cardiologists Clare Hopton (Manchester) Cardiology concepts for Geneticists Johan Saenen

Free time for evening meal in Manchester

Day 2 program: Sunday, March 16, 2025

THEME: STRUCTURAL HEART and AORTIC DISORDERS

09:00 - 10:00	Hypertrophic cardiomyopathy Rhys Beynon (Manchester)
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10:00 - 11:00 Dilated cardiomyopathy Jacquelyn Hooper (Manchester)

11:00 – 11:30 COFFEE BREAK (coffee/tea/water +biscuits)

11.30 – 12:00	Arrhythmogenic Ventricular Cardiomyopathy Simon Ray (Manchester)
12:00 – 13:00	Aortopathies Bart Loeys

13:00 - 14:00 LUNCH

14:00 – 15:00 Pathology of inherited cardiac disorders Joe Westaby (London)

- 15.00 15.30 Molecular Autopsy Bill Newman
- 15:30 17:00
 Imaging workshop echocardiography/Cardiac MRI

 Andrew Crean (Manchester) -> cardiologists

Nicole Sturkenboom (Antwerp) -> geneticists

17:00 – 17:15 COFFEE BREAK + water/juice

17.15 - 18.00 Mystery case Johan Saenen

18:00 – 19:00 Case Discussions Johan Saenen/Bart Loeys/Bill Newman

Free time for evening meal in Manchester

Day 3 program: Monday, March 17, 2025

THEME: PRIMARY ELECTRICAL DISORDERS

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 Luigi Venetucci (Manchester)
10:30 – 11:00 COFF	EE BREAK

- 11:00 11:30 J-wave Syndromes, including Brugada syndrome Charlie Pearman (Manchester)
- 11:30 13:00 Electrophysiology workshop –

Johan Saenen-> geneticists

Luigi Venetucci -> cardiologists

13:00 - 14:00 LUNCH

14:00-15:00	Key Note Lecture: The future of ICC diagnosis and treatment
	James Ware (Imperial College, London)
15:00 – 15:30	Next generation sequencing – different approaches Bart Loeys & Bill Newman
15:30 – 16:30	Workshop/Quiz NGS interpretation
	Kate Thomson (Oxford) > geneticists
	James Eden (Manchester)> cardiologists
16:30 – 17:00 COF	FEE BREAK
17:00 – 17:30	Mystery case discussion - conclusion Johan Saenen

17.30 - 18.30 Case presentations by Participants

Bart Loeys/ Bill Newman/Johan Saenen

19:00 COURSE DINNER for all delegates and faculty in Manchester

Day 4 program: Tuesday, March 18, 2025

THEME: CONGENITAL HEART DISEASE

08:00 - 09:00	Heart embryology Marco De Ruiter (Leiden)
09:00 - 09:30	Genetics of Congenital Heart Disease Bernard Keavney (Manchester)
09:30- 10:00	iPSC approaches to understand inherited cardiac disorders Maaike Alaerts
10:00 – 10:30 COFF	EE BREAK
10:30 - 11:00	Syndromic/metabolic inherited cardiac disorders Claire Hopton (Manchester)
11:00 – 11:30	Management of inherited cardiac disorders in competitive and leisure athletes Aneil Malhotra (Manchester)
11:30 – 12:00	Polygenic risk scores for inherited cardiac disease Sean Zheng (London)
12:00 – 13:30	Case presentations – Bill Newman/Bart Loeys/Johan Saenen
13:30 – 14:15 LUNC	:H
14:15 – 14:45	Cardiac Disorders in Pregnancy Bernard Keavney (Manchester)

14:45 - 15:00 END OF COURSE Bart Loeys/Johan Saenen/Bill Newman