



Manchester University
NHS Foundation Trust



Third European Society of Human Genetics Course on Cardiogenetics

**21st– 24th April 2018
Manchester UK**

This course aims to deliver up-to-date knowledge on cardiogenetics 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 cardiogenetics known for their teaching skills. Participants are encouraged to present a clinical or genetic case in a Poster format for on-site discussion. Prizes will be awarded for best presentations.

Directors of the course:

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

PROGRAM

Day 0 program: Saturday, 21st April

THEME: *BASICS IN CARIOGENETICS*

18:00– 19:00 Genetic basics for Cardiologists Ed Blair – Kay Metcalfe
Cardiology concepts for Geneticists Johan Saenen

19:00 – 19:30 **REFRESHMENT BREAK**

19:30– 20:30 Genetic basics for Cardiologists Ed Blair – Kay Metcalfe
Cardiology concepts for Geneticists Johan Saenen

DAY 1 program: Sunday, 22nd April

THEME: *BASICS IN CARIOGENETICS*

09:15 – 09:30 Course Introduction Bill Newman

09:30 – 10:00 A clinical geneticist's approach to inherited cardiac disorders Bart Loeys

10:00 – 10:30 Counselling considerations in inherited cardiac disorders Natalie Moreton

10:30 – 11:00 **COFFEE BREAK**

THEME: *STRUCTURAL HEART and AORTIC DISORDERS*

11:00 – 12:00 Hypertrophic and dilated cardiomyopathy James Ware

12:00 – 12:30 Arrhythmogenic Right Ventricular Cardiomyopathy Matthias Schmidt

12:30 – 13:00 Aortopathies (incl. Marfan syndrome) Bart Loeys

13:00 – 14:00 **LUNCH**

14:00 – 15:30 Imaging workshop – CMR/Cardiac CT/Echocardiography
Caroline

Matthias Schmitt -> cardiologist
Caroline Vandeheyning -> genetics

15:30 – 15:50 **COFFEE BREAK**

15:50 – 17:20 Pathology of inherited cardiac disorders
Mary Shepperd

17:20 – 18:20 Case Discussion by Participants Bart Loeys/Bill Newman/Johan Saenen

18:30 Key Note Lecture: Xavier Jeunemaitre

“Translational research in cardiogenetics : the example of vascular Ehlers Danlos syndrome”

19:30 **DINNER at Chancellors**

DAY 2 program: Monday, 23rd April

THEME: *PRIMARY ELECTRICAL DISORDERS*

09:00 – 09:30 Developing an inherited cardiac service Ed Blair

09:30 – 10:00 **J-wave Syndromes** Johan Saenen
10:00 – 10:30 **Catecholaminergic polymorphic ventricular tachycardia** Luigi Venetucci

10:30 – 11:00 COFFEE BREAK

11:00 – 11:30 **Long & Short QT Syndromes** Johan Saenen
11:30 – 13:00 **Electrophysiology workshop – ECG/Ex ECG/Ajamaline testing**
Johan Saenen -> genetics
Luigi Venetucci -> 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 – 17:00 **Workshop/Quiz NGS interpretation**
James Eden/Simon Ramsden/Karen Thompson (separate groups cardiologists and geneticists)

16:30 – 17:00 COFFEE BREAK

17:00 – 18.15 **Case presentations by Participants**
Bart Loeys/ Bill Newman/Johan Saenen

19:30 COURSE DINNER AT CROMA

DAY 3 program: Tuesday, 24th April

THEME: CONGENITAL HEART DISEASE

09:00 – 09:45 **Heart embryology** Marco De Ruyter
09:45 – 10:30 **Genetics of Congenital Heart Disease** Bernard Keavney

10:30 – 11:00 COFFEE BREAK

11:00 – 12:00 **Paediatric/neonatal diagnosis of cardiomyopathy (including metabolic)** Kay Metcalfe
12:00 – 12:30 **Management of inherited cardiac disorders in pregnancy** Bernard Clarke
12:30 – 13:00 **Functional approaches to understanding inherited cardiac disorders, including stem cell approaches - iPSC** Maaïke Alaerts

13:00 – 13:45 LUNCH

14:30 – 14:30 **Case presentations by Participants - Kay Metcalfe/Bill Newman/Bart Loeys**
14:30 **END OF COURSE** Bill Newman/Bart Loeys

Details on CONCURRENT WORKSHOPS

CONCURRENT WORKSHOP Themes	WORKSHOP Speakers/Chairs
Imaging workshop	<i>Matthias Schmitt Caroline Vandeheyning</i>
Electrophysiology workshop	<i>Johan Saenen Luigi Venetucci</i>
Pathology of inherited cardiac disorders	<i>Mary Shepperd</i>
Clinical utility and genetic counselling of multigene panel testing of NGS	<i>Bart Loeys Bill Newman</i>
Presentation by attendees of unknowns cases	<i>Bart Loeys Johan Saenen Bill Newman Kay Metcalfe</i>

Please email anne.m.burns@manchester.ac.uk to register your interest with details of your current post and institution

**The cost of the course is £425 including 3 nights' accommodation, registration and all meals
Additional nights accommodation can be booked**

Scholarships:

If you reside in the EU and wish to apply for a scholarship please provide a brief CV and justification for why you should receive this support

Deadline for applications 8th March 2018