

**The EUROPEAN SCHOOL OF GENETIC MEDICINE with the
UNIVERSITY RESIDENTIAL CENTER OF BERTINORO
and the EUROPEAN SOCIETY OF HUMAN GENETICS
organize the
4th COURSE IN NEXT GENERATION SEQUENCING
Bertinoro (Italy), May 13-16, 2015**

Abstract: This course aims to give students insight into the use of next generation sequencing technology for genetic studies in humans. Aimed at researchers and diagnostics personnel with a background in genetics, biology, biomedical & molecular sciences and/or computational biology.

Venue: The University Residential Centre of Bertinoro (www.ceub.it) is located on one of the hilltops of the Romagna area, between the cities of Forlì and Cesena.

Fee: The Registration fee (€ 560,00) includes tuition, course material, lunches, coffee breaks, dinners and transportation from Bologna airport to Bertinoro on May 12nd and back on May 16th

Accommodation: You'll be lodge at the Course Venue or in case of overbooking in hotels nearby the Centre. **The rate for a double room occupancy (to be share with another participant) is € 35,00/per night**

For info please write to: rpartisani@ceub.it.

Fellowships:

The European Society of Human Genetics offers fellowships covering both registration fee and accommodation. Applicants for fellowships should submit their request together with CV and a reference letter to rpartisani@ceub.it.

Deadline for sending application: March, 25th 2015 at 18.00 (Bruxelles Time). You'll receive a notification of acceptance (or non acceptance) by mail within April, 6th

Poster submission:

Deadline for sending Abstracts for posters: at April 19th, 2015 18.00 (Bruxelles Time). Please send your abstract to rpartisani@ceub.it

All participants are encouraged to present a poster. All the abstract will be accepted.

COURSE PROGRAMME:

Director:

J. Veltman (The Netherlands)

Co-Directors:

Gilissen C. (The Netherlands), Pippucci T. (Italy)

Faculty:

De Bakker P. (The Netherlands)

Campbell P. (UK)

Gilissen C. (The Netherlands)

De Franco E. (UK)

O'Halloran J. (UK)

Pippucci T. (Italy)

Rauch A. (Switzerland)

Robinson P. (Germany)

Romeo G. (Italy)

Sidore C. (Italy)

Spielmann M. (Germany)

Veltman J. (The Netherlands)

Voet T (Belgium/UK)

Arrival: Tuesday May 12

Wednesday, May 13

Morning Session: Introduction to Next Generation Sequencing

9.00 – 9.15	Introduction to the course Giovanni Romeo
9.15 – 10.15	Next Generation Sequencing basics Joris Veltman
10.15 – 10.45	Coffee Break
10.45 – 11.45	Bioinformatic basics Christian Gilissen
11.45 – 12.45	Bioinformatic strategies & ontology's Peter Robinson
12.45– 13.30	Lunch Break

Afternoon Session:

13.30 –14.00	Poster Viewing Session
14.00 – 16.00	Concurrent Workshops: Computer practical: Variant identification (C. Gilissen & T. Pippucci) Workshops by speakers
16.00-16.30	Coffee Break
16.30 – 18.00	Concurrent Workshops Computer practical: Variant identification (C. Gilissen & T. Pippucci) Workshops by speakers

Thursday, May 14

Morning Session: Applications to disease gene identification & diagnostics

9.00 – 10.00	Application of NGS for the diagnosis of neonatal diabetes Elisa de Franco
10.00 – 11.00	Exome diagnostics in intellectual disability Anita Rauch
11.00 – 11.30	Coffee Break

- 11.30- 12.30 De novo mutations in human genetic disease
Joris Veltman
- 12.30 – 13.30 WGS for non-coding mutations in congenital disorders
Malte Spielmann
- 13.30 – 14.30 **Lunch Break**

Afternoon Session:

- 14.30 – 16.00 Concurrent Workshops
Computer practical: Disease gene identification (**C. Gilissen & T.Pippucci**)
Workshops by speakers
- 16.00-16.30 **Coffee Break**
- 16.30 – 18.00 Concurrent Workshops
Computer practical: Disease gene identification (**C. Gilissen & T.Pippucci**)
Workshops by speakers

Friday, May 15

Morning Session: Applications to common disease & cancer

9.00 – 10.00	NGS in population genetics and complex diseases Paul de Bakker
10.00 – 11.00	The Sardinia project Carlo Sidore
11.00 – 11.30	Coffee Break
11.30 – 12.30	Cancer genome sequencing Peter Campbell
12.30 – 13:30	Bioinformatics of Genomics England TBD
13:30 – 14.30	Lunch Break

Afternoon Session:

14.30 –15.00	Poster Viewing Session
15.00 – 16.30	Concurrent Workshops Computer practical: Diagnostic NGS (C. Gilissen & T. Pippucci) Workshops by speakers
16.30-17.00	Coffee Break
17.00 – 18.30	Concurrent Workshops Computer practical: Diagnostic NGS (C. Gilissen & T. Pippucci) Workshops by speakers

Saturday, May 16

Morning Session: Genome technologies

9.0 – 10.00	Single cell sequencing Thierry Voet
10.00 – 11.00	Handheld diagnostics on nanowires Jonathan O'Halloran
11.00 – 11.30	Coffee Break
11.30 – 12.00	Best Posters Presentations by students
12.00 – 12.30	Wrapping up of the course (Joris Veltman)
12.30	Lunch

Departure