

COURSE VENUE

- **AULA MAGNA || PAD 5** (ground floor) for Morning Session
- **ICT HALL || PAD 3** (ground floor) for Afternoon Session/Hands

IRCCS Policlinico di S.Orsola Via Albertoni 15 – 40138 Bologna (Italy)

How to reach the venue

<https://www.aosp.bo.it/it/content/come-raggiungerci>

REGISTRATION

Online free registration, **before March 18th**

[CLICK HERE TO REGISTER](#)

Places available:

- **30 for the full attendance morning /afternoon sessions**
- **Morning Sessions open up to 100 participants**

OFFICIAL LANGUAGE

English is the official language of the Course.

Simultaneous translation is not provided.

SCIENTIFIC DIRECTOR

Prof. Elena Bonora

DIMEC, University of Bologna- Alma Mater Studiorum

Medical Genetics

IRCCS Policlinico di S. Orsola, Bologna - Italy

ORGANIZING SECRETARIAT

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ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI
SCIENZE MEDICHE E CHIRURGICHE

SCUOLA DI SPECIALIZZAZIONE
IN GENETICA MEDICA



POLICLINICO DI **SANT'ORSOLA**

WORKSHOP ON Genetics of Complex Diseases

BOLOGNA IRCCS *Policlinico di S. Orsola*

April 16-17th 2024

DAY 1 – TUESDAY APRIL 16TH

AULA MAGNA (PAD. 5)

- 09.30** Welcoming addresses
G. Pasquinelli
Head of Dept of Medical and Surgical Sciences,
University of Bologna
M. Seri
Scientific Director of IRCCS -AOU
Policlinico di Sant'Orsola, Bologna
- 10.00** Introduction and workshop overview
E. Bonora
- 10.30** Genetics of complex diseases
E. Bacchelli
- 11.15** *Coffee break*
- 11.30** GWAS studies: why/what/how
and present day challenges
S. Sanna
- 12.15** Talking about complex:
GWAS of irritable bowel syndrome
M. D'Amato
- 13.00** *Lunch break*

ICT HALL (PAD 3)

- 14.00** GWAS methods:
data QC, imputation, analytics
F. Bonfiglio
- 14.45** Hands on:
GWAS annotation I, genetic
correlations, PheWAS
**F. Bonfiglio, M. D' Amato, S. Sanna,
D. Zanetti**
- 15.30** Hands on GWAS annotation II,
practice
**F. Bonfiglio, M. D' Amato, S. Sanna,
D. Zanetti**
- 16.15** Q&A and closing of the day
- 16.30** It's a wrap, see you tomorrow

DAY 2 – WEDNESDAY APRIL 17TH

AULA MAGNA (PAD. 5)

- 10.00** Leftover questions and doubts
from yesterday
- 10.30** Genetics of COVID-19
A. Ganna
- 11.15** *Coffee break*
- 11.30** Polygenic risk scores (PRS)
in CVD and complex diseases
E. Di Angelantonio
- 12.15** PRS methods:
strength and limitations
D. Zanetti
- 13.00** *Lunch break*

ICT HALL (PAD 3)

- 14.00** Annotation III, TWAS, MR and PRS
S. Sanna, D. Zanetti
- 14.45** Annotation IV, practice
**F. Bonfiglio, M. D' Amato, S. Sanna,
D. Zanetti**
- 15.30** Direct to consumer testing
and the social genome
M. D'Amato
- 16.15** Closing remarks
E. Bonora

FACULTY

WORKSHOP ON Genetics of Complex Diseases

Prof. Elena Bacchelli FABIT, University of Bologna, Italy
Dr. Ferdinando Bonfiglio University of Naples Federico II and CEINGE - Napoli, Italy
Prof. Elena Bonora, DIMEC-University of Bologna, Italy
Prof. Mauro D'Amato LUM - Bari, Italy and CIC bioGUNE – Bilbao, Spain
Prof. Emanuele Di Angelantonio Human Technopole - Milano, Italy
Prof. Andrea Ganna FIMM - Helsinki, Finland - Harvard, USA
Dr. Serena Sanna CNR - Cagliari, Italy
Dr. Daniela Zanetti CNR - Cagliari, Italy