

MEDGEN

Developing Medical Genetics Education Through Curriculum Reforms
And Establishment Of Postgraduate Training Programs

UNIVERSITY OF BOLOGNA MEDGEN Training Sessions 2-25 November, 2015

Location: Policlinico Sant'Orsola, via Giuseppe Massarenti, 9 40138
Pavillon 11, second floor U.O Medical Genetics
University of Bologna

Cancer Genetics

Day	Topic	Speakers
November 2	Introduction to protocols and clinical paths adopted in the cancer genetics clinic	15.- 17.00 Lea Godino Medical Genetics Unit
November 3	Participation into the Tuesday's Clinic at the Unit of Medical Genetics. Discussion of cases	09.00- 13.00 Sara Miccoli 15.00-17.00 Lea Godino Medical Genetics Unit
November 4	Participation into the Wednesday's Clinic at the Unit of Medical Oncology. Discussion of cases	09.00- 13.00 Sara Miccoli 15.00-17.00 Daniela Turchetti Medical Genetics Unit
November 5	Participation into the Thursday's Clinic at the Bellaria Hospital. Discussion of cases	8.45- 12.45 Daniela Turchetti Bellaria Hospital 15.00-17.00 Daniela Turchetti Medical Genetics Unit
November 6	Participation into the clinical meeting and the joint clinical&lab meeting. Genetic testing for cancer predisposition	9.30- 13.30 Daniela Turchetti, Simona Ferrari, Roberta Zuntini Medical Genetics Unit

Whole Exome Sequencing

	Topic	Speakers
November 9	Introduction to sample enrichment for exome and target gene analysis (C.M.) The Nextera Approach (E.B.) <u>Experimental procedure</u> DNA fragmentation and first PCR	9.30-10.00 Caterina Marconi, Elena Bonora 10.30 Caterina Marconi, Elena Bonora 11.00-16.00 Caterina Marconi, Elena Bonora (13-13.30 lunch break) Genetics Lab
November 10	<u>Experimental procedure</u>	9.30 am-16.00 Caterina Marconi, Elena

	PCR purification and first hybridization (13-13.30 lunch break)	Bonora Genetics Lab
November 11	<u>Experimental procedure</u> First capture (13-13.30 lunch break) Second hybridization	9.30-12.00 Caterina Marconi, Elena Bonora 14.00-16.00 Caterina Marconi, Elena Bonora Genetics Lab
November 12	<u>Experimental procedure</u> Second capture and clean-up (13-13.30 lunch break) Second PCR and purification	9.30-12.00 Caterina Marconi, Elena Bonora 14.00-17.00 Caterina Marconi, Elena Bonora Genetics Lab

Bioinformatics

Day	Topic	Speakers
November 16	Genome and Exome Sequencing	10.00-13.00 Christian Gilissen- Seminar Room 1 15.00-17.00 Tommaso Pippucci, Caterina Marconi Informatics Lab
November 17	Basics of Exome Analysis: Annotation, Filtering and Prioritization	10.00- 18.00 Tommaso Pippucci, Caterina Marconi, Flavia Palombo, Pamela Magini Informatics Lab
November 18	Application to dominant and recessive Mendelian models: identification of pathogenic mutations	10.00- 18.00 Tommaso Pippucci, Caterina Marconi, Flavia Palombo, Sara Baldassari Informatics Lab
November 19	Application to trio (de novo) and ROH analysis	10.00- 18.00 Tommaso Pippucci, Sara Baldassari, Pamela Magini Informatics Lab
November 20	Incidental Findings in Exomes	10.00- 18.00 Caterina Marconi Informatics Lab
November 23	Non coding mutations	15.00 – 17.00 Malte Spielmann Room 1
November 24	Identification of CNVs in Exomes	10.00- 18.00 Romina D'aurizio, Alberto Magi Informatics Lab
November 25	Clinical Exome Sequencing	10.00-18.00 Tommaso Pippucci Informatics Lab