



Oncogenomics for Health Professionals

April 9th 2024- April 9th 2025

organised by

ISTITUTO SUPERIORE DI SANITÀ
Department of Oncology and Molecular Medicine

and

Training Service

N° ID: 173F24_F

Description

European Distant Training on fundamental principles of genetics and present applications of genomics in oncology. The training is primarily addressed to physicians of all specialties (either general practitioners or other specialists) and is based on a core curriculum of competencies specifically identified by an international panel of experts through a *Delphi* consensus process. The course is held in English to facilitate its dissemination and use across Europe.

The Distant Training has been developed in the framework of CAN.HEAL (*Building the EU Cancer and Public Health Genomics platform*), a project financed by the European Commission (EU4Health Program 2021) involving 24 European countries. The general scope of CAN.HEAL is to integrate clinical and population-based interventions in oncology that are depending on genomics information obtained through massive parallel genome sequencing of DNA/RNA (including NGS gene panels, exome & whole genome sequencing, amongst others) and to foster their implementation in a coordinated way in Europe. Developing and delivering e-learning tools on oncogenomics for healthcare professionals is part of CAN.HEAL Work Package 13 activities on Training and Education.

The course has been organised by the Italian National Institute of Health (*Istituto Superiore di Sanità, ISS*), Rome, Italy.

Scope and general aims

The course aims at improving *knowledge, attitude* and *practice* of health professionals on the fundamental principles of genetics and on the major clinical applications of genomic technologies in cancer diagnosis and treatment. The learning objectives rely on core competencies identified by an international panel of experts. Curricula in three domains, i.e. theoretical knowledge, attitudes and practical skills (abilities), were first identified through a systematic review of the scientific literature. A subsequent *Delphi* consensus process was applied to select priorities and define the final core curriculum¹.

Continuing Medical Education (CME) objective

Application in the daily practice of principles and procedures of Evidence Based Medicine (EBM)

Learning method and delivery mode

The learning method, inspired by the *Problem-Based Learning* (PBL) educational method, encourages participants to identify their learning goals by analysing and solving a problem linked to their professional setting.

¹ Hoxhaj, I., Tognetto, A., Acampora, A. *et al.* Core Competencies in Cancer Genomics for Healthcare Professionals: Results From a Systematic Literature Review and a Delphi Process. *J Canc Educ* (2021). <https://doi.org/10.1007/s13187-021-01956-w>



The following learning resources are provided: problem and its solution, short video lessons (PowerPoint slides with a voice-over), supplementary readings and learning materials. The distant training will be delivered through the platform <https://www.eduiss.it>

Structure of the Training

The e-learning module entails:

- an introduction explaining relevance, general aims and structure;
- learning objectives;
- number of learning units: 1

The **learning unit** includes:

- an introduction presenting the general content of the unit;
- the specific learning objectives;
- the problem, based on a realistic scenario relevant to the course's contents, to activate learning process and application of the gained competencies;
- supplementary materials to be used by participants for in-depth analysis and further research, including relevant bibliographic references and websites addresses;
- reading materials (scientific papers, reports, references to legislation, etc..) with useful inputs for the problem's solution;
- teachers' tutorials (video lessons) presenting the main study topics of the learning unit;
- the proposed solving hypothesis of the problem.

Other resources available to participants include:

- a news notice board with updates about the course's delivery;
- a user guide;
- a FAQ section (Frequently Asked Questions)

Duration and period of delivery

The duration of the course is estimated in **16 hours**.

The distant training will be available from April 9th 2024 to April 9th 2025.

Evaluation modalities

Participant are requested to take the following self-evaluation tests:

- entrance assessment (**pre-training test**) to assess the initial knowledge. It is mandatory but a negative result does not impair participation;
- self-assessment (**post-training test**) of the competencies gained at the end of the course. It is mandatory and has a training purpose since the wrong answers allow participants to identify the learning objectives to review.

The accreditation test, including questions with multiple-choice answers (4 options, just 1 correct), is passed if correct answers are at least 75%. The accreditation test can be attempted no more than three times. Participants are also requested to fill in an evaluation questionnaire (customer satisfaction) and a perceived quality assessment questionnaire.

Faculty of the course

Paola Ghorzo, Department of Internal Medicine and Medical Specialties, University of Genoa and IRCCS Ospedale Policlinico San Martino, Genetics of Rare Cancers, Genoa, Italy

Maurizio Genuardi, Institute of Genomic Medicine, "A. Gemelli" School of Medicine, Catholic University of the Sacred Heart, Rome, Italy

Emilio Di Maria, Department of Health Sciences, University of Genova and University Unit of Medical Genetics, Galliera Hospital, Genoa, Italy

Arcangela De Nicolo, Cancer for Omics Sciences, IRCCS San Raffaele Scientific Institute, Milan, IT





Scientific Coordination

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Organizational Secretariat

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Recipients and maximum number of participants

The course is primarily addressed to physicians of all specialties (general practitioners and other specialists) and is open to other health care professionals (biologists, pharmacists).

Maximum 10,000 participants.

Registration

Participants should apply for registration on the web platform <https://www.eduiss.it>

The registration procedure includes two steps:

1) creating a personal account on the web platform <https://www.eduiss.it>

ATTENTION: creating an account does not coincide with registration;

2) completing registration by selecting amongst available courses the title of the specific one "Oncogenomics for Health Professionals".

Registration is open from April 9th 2024 to April 2nd 2025

The registration is free of charge

For any request regarding the course please contact: scientsecretariat.oncogenomics@iss.it

For requests regarding the e-learning platform and methodology please contact: formazione.fad@iss.it