



**UNIVERSITÀ
DI SIENA**
1240

General information

Denomination
Summer school: TUMOR GENETICS: SPOTLIGHT ON LIQUID BIOPSY
Learning objectives
The course aims to understand the genetic foundations with particular attention to the genetic mechanisms that lead to the formation of tumors and their resistance to treatments. Students will be taught how to identify and analyze genetic mutations associated with different types of cancers, understanding their role in disease progression. Liquid biopsy techniques will be introduced, explaining how this method allows the analysis of circulating tumor DNA (ctDNA) and circulating tumor cells (CTC) for the diagnosis and monitoring of tumors. Skills will be developed in the interpretation of the results obtained from liquid biopsy, including the evaluation of response/resistance to treatment and the detection of recurrences in order to obtain personalized medicine.
Credits
3
Hours
24
Deadline for applications
01/06/2026
Start date
June 2026
End date
June 2026
Absence percentage
20%
Website
https://liquidbiopsy.unisi.it/
Expected languages
Italian, English

Department

Department of Medical Biotechnology (DBM)

Teaching Contacts

Prof. Elisa Frullanti e-mail elisa.frullanti@unisi.it

Dr. Maria Palmieri e-mail maria.palmieri@unisi.it

Support and agreement**Support and agreement**

No support or convention

Access qualifications

- Open to all interested parties

Action on patient

No

Mannequin alternative

No

Register registration

No

Professional qualification

No

Specialization

No

Application for admission or enrolment**Admission procedures**

Direct enrollment

Minimum number of participants: 5

Application fees

Total amount in €
300.00
First instalment amount in €
300.00

Training

Teaching methods
Distance learning (online lessons in synchronous mode)
Internal venue
Department of Medical Biotechnology

Title: Fundamentals of tumor genetics and liquid biopsy CFU teaching: 3
Presence and choice of internship/traineeship
NO

Attendance of the final exam
No

Collegial bodies

Director:
Elisa Blenders
Professors who are part of the Council:
Palmieri Maria - Serio Viola Bianca