



Università di Genova

PhD in Biotechnology in Translational Medicine

Coordinator: Prof. Sveva Bollini

2026 EDUCATIONAL OFFER

All lessons will be held in person and attendance will be tracked by a sign-in sheet. Only PhD students who are not on campus will be granted to join remotely via the Teams platform 'Didattica D.R. in Biotecnologie in Medicina Traslazionale' (access code '9dgmim9').

Mandatory classes for PhD students from the XLI cycle
Mandatory classes for PhD students from the 39th and 40th cycle who did not attend these courses in previous years

1) Telling Your Research Story: How to Structure an Effective Presentation – CFU: 2,25

Lecturer Prof. SILVIA RAVERA

28/05/2026 - H. 14.30/17.30 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

04/06/2026 - H. 14.30/17.30 – PRACTICE – Auletta Anatomia Normale (Via De Toni, n. 12)

11/06/2026 - H. 14.30/17.30 – Final TEST – Auletta Anatomia Normale (Via De Toni, n. 12)

2) Applications of artificial intelligence (AI) in scientific research – CFU: 3

Lecturer Dr. JOHN CHARLES ROTONDO

17/06/2026 - H. 14.00/18.00 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

25/06/2026 - H. 14.00/18.00 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

01/07/2026 - H. 14.00/18.00 – Final TEST – Auletta Anatomia Normale (Via De Toni, n. 12)

This course examines how artificial intelligence (AI) is transforming scientific research, and critically addresses ethical and methodological issues, including data quality, algorithm transparency, and misuse risks.

3) Disseminate and present your study to the scientific community – CFU: 2

Lecturer Prof. SVEVA BOLLINI

08/09/2026 - H. 14.00/18.00 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

15/09/2026 - H. 14.00/18.00 – PRACTICE & Final TEST – Auletta Anatomia Normale (Via De Toni, n. 12)

Prepare an abstract for a conference. Drafting a manuscript for publication: how to critically organise the results of your research.

Practical exercise: drafting at least one abstract on your experimental data (with assistance from the lecturer and involvement of the tutor).

Mandatory courses for PhD students from the XL cycle
Mandatory classes for PhD students from the 39th cycle who did not attend these
courses in previous years

1) Digital images: basic analysis with ImageJ – CFU: 1

Lecturer Prof. PAOLO MALATESTA

03/06/2026 - H. 14.30/18.30 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

2) Seeing mechanisms across scales: how imaging uncovers subcellular responses in cancer cells – CFU: 1

Lecturer Prof. KATIA CORTESE

15/06/2026 - H. 14.00/16.00 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

16/06/2026 - H. 14.00/16.00 – LESSON – Auletta Anatomia Normale (Via De Toni, n. 12)

This course offers a conceptual introduction to the use of advanced imaging, from live cell microscopy to confocal and electron microscopy, to investigate subcellular responses to therapeutic stress.

Using examples from our HER2+ breast cancer models treated with ADCs (antibody-drug conjugates), we will analyse the mechanisms of remodelling and interaction between mitochondria, lysosomes and the nucleus under therapeutic pressure.

The course will highlight the role of cellular imaging in generating scientific hypotheses and understanding cellular adaptation mechanisms, without requiring prior expertise in microscopy.

3) Developing a ‘project/task managing attitude’ in order to prepare a research project in response to a call for proposals – CFU: 3

Lecturer Prof. ROBERTA TASSO & Prof. Andrea Nicola MAZZARELLO

26/06/2026 - H. 14.00/18.00 – LESSON PROF.SSA TASSO – Auletta Anatomia Normale (Via De Toni, n. 12)

03/07/2026 – h. 14.00/18.00 – LESSON PROF. MAZZARELLO - Auletta Anatomia Normale (Via De Toni, n. 12)

20/07/2026 - H. 14.00/18.00 – PRACTICE & Final TEST – Auletta Anatomia Normale (Via De Toni, n. 12)

Searching for funding sources. How to write a project that complies with the requirements of the call for proposals. How to organise experimental work divided into WPs and Tasks. How to draw up a budget.

Practical exercise: drafting a research project (with assistance from the lecturer and involvement of the tutor).