



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

SUMMER 2026

From molecules to cells: a translational path towards novel therapeutics

Instructors: Prof. Wanda Lattanzi, Prof. Alessandro Arcovito, Federica Tiberio, Elvira Ragozzino, Giorgia Canini, Martina Salvati, Noah Giacon

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
Week 1	JUNE 8	JUNE 9	JUNE 10	JUNE 11	JUNE 12	JUNE 13	JUNE 14
	<p>9:30 – 12:30 Orientation session <i>classroom: aula 5@Polo</i></p> <p>14:30-16:30 Course introduction (Wanda Lattanzi, Alessandro Arcovito) <i>classroom: Aula 4@Polo</i></p> <p>16:30-18:30 Introduction to macromolecules (Alessandro Arcovito) <i>classroom: Aula 4@Polo</i></p>	<p>9:30-11:30 Basics of cell signaling and disease mechanisms (Wanda Lattanzi) <i>classroom: Aula 3@Polo</i></p> <p>11:30-13:30 Drug design and delivery tools (Alessandro Arcovito) <i>classroom: Aula 3@Polo</i></p> <p>14:30-16:30 Virtual laboratory on macromolecules (Martina Salvati) <i>classroom: Lab Informatica@Polo</i></p>	<p>9:30-11:30 Stem cells – part 1 (Federica Tiberio) <i>classroom: Aula 3@Polo</i></p> <p>11:30-13:30 Stem cells – part 2 (Wanda Lattanzi) <i>classroom: Aula 3@Polo</i></p> <p>14:30-16:30 Introduction to Molecular Docking and Molecular Dynamics (Giorgia Canini) <i>Classroom; Aula 4@Polo</i></p> <p>16:30-18:30 Nanotechnology and Drug Design: Innovations and Applications in Modern Medicine (Noah Giacon) <i>Classroom; Aula 4@Polo</i></p>	<p>9:30-11:30 Gene silencing approaches (Martina Salvati) <i>classroom: Aula 3@Polo</i></p> <p>11:30-13:30 Interactive Molecular Docking Workshop 1 (Giorgia Canini) <i>Classroom: Aula 3@Polo</i></p> <p>14:30-16:30 Interactive Molecular Docking Workshop 2 (Giorgia Canini) <i>Classroom: lab informatica@Polo</i></p>	<p>9:30-13:30 Nanotechnology Workshop: Preparation and Characterization of Polymeric Nanoparticles (Noah Giacon) <i>classroom: Lab L3@Istituti Biologici</i></p>	FREE	FREE

Week 2	JUNE 15	JUNE 16	JUNE 17	JUNE 18	JUNE 19	JUNE 20	JUNE 21
	<p>14:30-18:30 Virtual laboratory on gene silencing and cell signaling (Elvira Ragozzino) <i>classroom: lab informatica@Polo</i></p>	<p>14:30-16:30 Drug Design and Delivery synergies. (Giorgia Canini) <i>classroom: Lab L1@Istituti biologici</i></p>	<p>11:30-13:30 Virtual labster on principles of microscopy (Noah Giacon) <i>classroom: lab informatica @Polo</i></p> <p>14:30-16:30 Drug Design: Potential Applications (Giorgia Canini) <i>classroom: Lab L1@Istituti biologici</i></p>	<p>9:30-11:30 Cell-based disease models (Wanda Lattanzi) <i>classroom: Aula 3@Polo</i></p>	<p>14:30-16:30 Final assessment (Giorgia Canini, Noah Giacon) <i>classroom: lab informatica@Polo</i></p> <p>16:30-18:30 Final assessment (Wanda Lattanzi, Alessandro Arcovito) <i>classroom: lab informatica@Polo</i></p>	FREE	FREE