



UNIVERSITÀ
CATTOLICA
del Sacro Cuore

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From molecules to cells: a translational path towards novel therapeutics
Prof. Wanda Lattanzi, Alessandro Arcovito, Lorena Di Pietro, Federica Tiberio, Elvira Ragozzino, Noah Giacon, Giorgia Canini.

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
|--------|--|--|--|---|--|----------|---------|
| Week 1 | JUNE 10 | JUNE 11 | JUNE 12 | JUNE 13 | JUNE 14 | JUNE 15 | JUNE 16 |
| | <p>9:30 – 12:00 Orientation session <i>classroom:</i> aula Lazzati@Polo</p> <p>14:30-16:30 Course introduction (Wanda Lattanzi, Alessandro Arcovito) <i>classroom:</i> aula 2@Polo</p> <p>16:30-18:30 Introduction to macromolecules (Lorena Di Pietro) <i>classroom:</i> aula 2@Polo</p> | <p>9:30-11:30 Basics of cell signaling and disease mechanisms (Wanda Lattanzi) <i>classroom:</i> aula 1@Polo</p> <p>11:30-13:30 Drug design and delivery tools (Alessandro Arcovito) <i>classroom:</i> aula Lazzati@Polo</p> <p>14:30-16:30 Virtual laboratory on macromolecules (Elvira Ragozzino) <i>classroom:</i> lab. informatica@Polo</p> | <p>9:30-11:30 Introduction to Molecular Docking and Molecular Dynamics (Giorgia Canini) <i>classroom:</i> lab. informatica@Polo</p> <p>11:30-13:30 Nanotechnology and Drug Design: Innovations and Applications in Modern Medicine (Noah Giacon) <i>Classroom:</i> aula 5@Polo</p> | <p>9:30-11:30 Gene silencing approaches (Federica Tiberio) <i>Classroom:</i> aula 7@Polo</p> <p>11:30-13:30 Interactive Molecular Docking Workshop (Giorgia Canini) <i>Classroom:</i> aula 7@Polo</p> <p>14:30-16:30 Interactive Molecular Docking Workshop (Giorgia Canini) <i>Classroom:</i> aula 7@Polo</p> | <p>9:30-11:30 Virtual laboratory on gene silencing (Federica Tiberio) <i>classroom:</i> lab. informatica@Polo</p> <p>11:30-13:30 Virtual laboratory on cell signaling (Elvira Ragozzino) <i>classroom:</i> lab. informatica@Polo</p> | FREE | FREE |

| Week 2 | JUNE 17 | JUNE 18 | JUNE 19 | JUNE 20 | JUNE 21 | JUNE 22 | JUNE 23 |
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| | <p>9:30-13:30 Nanotechnology Workshop: Preparation and Characterization of Polymeric Nanoparticles (Noah Giacon) <i>classroom: L32@Istituti Biologici</i></p> | <p>9:30-11:30 Stem cells – part 1 (Lorena Di Pietro) <i>classroom: aula Franceschini@Polo</i></p> <p>11:30-13:30 Stem cells – part 2 (Wanda Lattanzi) <i>classroom: aula Franceschini@Polo</i></p> <p>14:30-16:30 Drug Design and Delivery synergies. (Noah Giacon, Giorgia Canini) <i>classroom: aula 2@Polo</i></p> | <p>9:30-11:30 Cell-based disease models (Wanda Lattanzi) <i>classroom: aula 102@Economics</i></p> <p>11:30-13:30 Drug Design and Delivery: Potential Applications (Noah Giacon, Giorgia Canini) <i>classroom: Lab. linguistico@Polo</i></p> <p>14:30-16:30 Drug Design and Delivery: Potential Applications (Noah Giacon, Giorgia Canini) <i>classroom: Lab. linguistico@Polo</i></p> | FREE | <p>9:30-11:30 Drug Design and Delivery Workshop (Noah Giacon, Giorgia Canini) <i>classroom: 102@Economics</i></p> <p>11:30-13:30 Final assessment (Arcovito, Lattanzi) <i>classroom: Lab. informatico@Polo</i></p> | FREE | FREE |