

**University of Perugia**  
**Department of Chemistry, Biology and Biotechnology**  
**PhD in Biotechnology**  
**Academic Year 2021/22**

<b>Course</b>	<b>Professor</b>	<b>CFU</b>	<b>Date</b>	<b>Time</b>
<b>First Year</b>				
<i>Machine Learning Applied to Gene Editing</i>	Francesco Morena	1	March 21 & 22, 2022	3:30-6:30 pm
<i>Introduction to Data Analysis and Data Formats</i>	Gianluigi Cardinali	2	April 5, 6, 8 & 12, 2022	3:30-6:30 pm
<i>Introduction to Basic Programming in Biotechnologies</i>	Gianluigi Cardinali	1	April 13 & 15, 2022	3:30-6:30 pm
<i>Femtobiology</i>	Benedetta Carlotti	2	April 26, 27, 28 & 29, 2022	3:30-6:30 pm
<i>Two-Photon Absorption for Bio-Applications</i>	Alessio Cesaretti	1	May 3 & 4, 2022	3:30-6:30 pm
<i>Gene Editing</i>	Stefano Bruscoli & Francesco Paolucci	2	September 26, 27, 28 & 29, 2022	3:30-6:30 pm
<i>Safety in Laboratories and Biotechnology</i>	Assunta Marrocchi	2	November 7, 8, 9 & 10, 2022	3:30-6:30 pm
<b>Second Year</b>				
<i>Bio-Governance and Bioethics</i>	Assunta Morresi	2	June 6, 7, 8 & 9, 2022	3:30-6:30 pm
<i>Transcriptomics Data Mining</i>	Giuseppe Nocentini & Luigi Cari	2	June 13, 16, 22 & 23, 2022	3:30-6:30 pm
<i>Functional Foods</i>	Florentina Matei	1	June 14 & 15, 2022	3:30-6:30 pm
<i>Advanced Databasing and Programming in Biotechnology</i>	Vincent Robert	3	To be defined	To be defined
<b>Third Year</b>				
<i>Cancer Immunotherapy</i>	Stefano Bruscoli & Efisio Puxeddu	1	June 20 & 21, 2022	3:30-6:30 pm
<i>Biomarkers and Liquid Biopsy</i>	Lorena Urbanelli	1	June 27 & 28, 2022	3:30-6:30 pm
<i>Soil and Microbial Diversity Management</i>	Anna Benedetti	2	July 4, 5 & 6, 2022	2:30-6:30 pm