



SCIENCE FACULTY- UDC

## Master in Molecular, Cellular Biology and Genetics

DOUBLE DEGREE UDC-UNIPA

ACCESS to INTERNATIONAL Ph Degree

Face-to-face modality or in semi-on line modality

### First semester. Mandatory

Cellular lab-techniques (6 ECTS)  
 Molecular lab-techniques (6 ECTS)  
 Advanced Cellular Biology 3 ECTS)  
 Cellular Signaling (3 ECTS)  
 Mechanisms of genetic variation (3 ECTS)  
 Regulation of gene expression (3 ECTS)  
 Thesis of Master (12 ECTS) (along the two semesters)

### Second semester: (To select 24 ECTS)

Neurobiology (3 ECTS)  
 Immunology (3 ECTS)  
 Stem cells and cellular therapy (3 ECTS) Molecular  
 Microbiology (3 ECTS)  
 Human Genetics (3 ECTS)  
 Chromosomes: structure, function and evolution (3 ECTS)  
 Dynamic and structure of proteins (3 ECTS)  
 Genomics (3 ECTS)  
 Protein engineering (3 ECTS)  
 Proteomics (3 ECTS)  
 Genetic Toxicology (3 ECTS)  
 Biotechnology in plants (3 ECTS)  
 Molecular Mechanisms of the Interaction plant-pathogen (3 ECTS)  
 Bioinformatics and molecular models (3 ECTS)  
 Practical work in companies and institutions (9 ECTS)



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INIBIC: [www.inibic.es](http://www.inibic.es)

<http://portale.unipa.it/dipartimenti/stebicef/cds/biologiacellulareemolecolare2008/English-Version/Presentation/>



Pre-registration on line: <https://www.udc.es/en/matricula/>