Master degree: Pharmaceutical Biotechnologies
Master degree

Department of Pharmaceutical Sciences

School of Medicine

Degree class: LM-9

CFU: 120

Second cycle master degree (2 years)

Doctor in

Pharmaceutical Biotechnologies
Director
Patrizia Polverino de Laureto

Students tutors
Angela Sisto
Elisa Micozzi

http://en.didattica.unipd.it/didattica/2015/ME2193/2015


https://it-it.facebook.com/BiotecnologieFarmaceuticheUnipd
Pharmaceutical Biotechnologies is a second cycle master degree that aims at providing graduates with professional skills in the field of Biotechnologies, with a specific focus on academic and industrial pharmaceutical research.
## Course catalogue

### I year

1. Drug Discovery and Development  
   - 7 ECTS
2. Structural Biochemistry  
   - 6 ECTS
3. Advanced Molecular Biology  
   - 6 ECTS
4. Advanced Reactivity and Modelling  
   - A) Advanced Organic Reactions and Mechanism  
     - 4 ECTS  
   - B) Biomodeling  
     - 3 ECTS
5. Protein Engineering  
   - 6 ECTS
6. Molecular and Experimental Pharmacology  
   - 10 ECTS
7. Proteomics and Biochemical Methodologies  
   - 6 ECTS
Course catalogue

II year

8. Biologics & Biopharmaceutics 7 ECTS
9. Delivery and Formulation of Biotechnological Drugs 11 ECTS
   Part A: Delivery of Biopharmaceutics
   Part B: Nanotechnology in Drug Delivery
10. Diagnostic Microbiology and Molecular Immunology 6 ECTS
    A. Microbiological Quality Controls of Biopharmaceutics
    B. Molecular Immunology 4 ECTS
11. Elective Course: 8 ECTS
    Bioinformatics and Computational Biology
Education program

✓ Teachings and laboratory

✓ **Seminars** and **short courses** dedicated to specialist and innovative topics in ambit of biotechnology,

✓ Experimental thesis in research labs at Padua University or companies or other universities (LLP/Erasmus).
Teaching approaches

1. Teachings updated with the most recent literature

2. Lectures in English
   - Curricular lessons
   - Seminars and lectures by international teachers and scientists

3. Assessment exams: individual tasks, group task, slide presentation

4. Critical approach to science: not only theory…

5. Events organized by students: projects and investigation
Admission requirements

- Available positions: **60 students**
- a. Pre-enrollment via web: **from 30th May to 7th September 2016**
- b. admission test: **14th September 2016**
- c. Enrollment **October 2016**

http://www.unipd.it/avvisi-ammissione-lauree-magistrali
https://uniweb.unipd.it
Enrollment requirements

Pre-enrolment deadlines are specified in the admission bulletins.

Please go to the link: http://www.unipd.it/en/how-apply and http://www.unipd.it/en/tuition-fees-scholarships-tax-relief-schemes

For other information
Admission test

It is a multiple choice test (60 questions)
Topics: Chemistry, Biochemistry, Biology, Molecular Biology, Microbiology, Virology, Immunology

a) 55 questions on Chemistry, Biochemistry, Biology, Molecular Biology, Microbiology, Virology, Immunology.

b) 5 questions on the understanding of a scientific text.
Admission test

Available time: 90 minutes

Point Scores used for qualification:
- 1 for every correct answer,
- -0.1 for wrong answer
- 0 for no answer

On request, a simulation test will be available on the web site of the master degree

http://goo.gl/forms/BvV9ofJedL
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