Goals and Description

Immunology is the branch of biomedical sciences studying the physiological and pathological functions of the immune system. Immunology seeks to solve problems posed by complex pathologies of particular importance to public health. Furthermore, through its extraordinary methodological development, immunology has become an essential tool for biotechnology, drug's development, diagnosis and multiple therapeutic applications. Immunology is a key area in biomedical research around the world. In fact, in the past 150 years, the most important advances in healthcare are directly related to the extraordinary advances in immunology: vaccines, transplants, antibodies, cellular differentiation factors, anti-inflammatory drugs and cancer and other therapies.

The potentiality of the knowledge acquired through the Master in Immunology opens a wide range of possibilities in different areas. The master provides advanced academic, laboratory and research training in modern cellular and molecular immunology with emphasis on the interface between the basic and clinical aspects of the subject. In addition, the in depth/comprehensive knowledge of the Immune System provides students with the capacity for the assessment of pathological processes directly involving the immune System or those related to other physiological systems. The four areas where these skills are developed are:

- Research and Academic
- Biotechnology
- Medicine

Academic year 2018/2019

Universitat de Barcelona
Coordinator: Dr. Jorge Lloberas
master.immunologia@ub.edu
Facultat de Biologia
Departament de Biologia Cel·lular, Fisiologia i Immunologia
Av. Diagonal 643, 08028 Barcelona

Universitat Autònoma de Barcelona
Coordinator: Dra. Carme Roura
coordinacio.master.immunologia.avancada@uab.cat
Facultat de Biociències
Departament de Biologia Cel·lular, de Fisiologia i d'Immunologia

On-Line PRE-REGISTRATION links:


or


First period of pre-registration:
From February 1st until June 17th, 2018

Second period of pre-registration:
From June 19th until September 4th, 2018
Applicants
The Master course is suitable for students with knowledge and training Life Sciences, Health Sciences, Experimental Sciences and/or Veterinary Sciences.

Available Places
There are 44 positions available. Student selection is based upon academic records and taking academic and professional experience into account.

Requirements
Applicants should hold a Graduate Degree of at least 180 ECTS in Life Sciences, Health Sciences, Experimental Sciences or Veterinary Sciences. Graduate students from a European or a non-Spanish university should have the approval of the coordinating universities.

Profiles
There are three established profiles:
- Immunobiotechnology and Research
- Medical Immunology
- Veterinary Immunology (NOT ACTIVE)

Each Profile composed:
35 ECTS academic activity + 25 ECTS of Master Thesis.
Students that obtain this Master's title are eligible to enroll in an official PhD program.

August 31, 2015, the Education, Audiovisual and Culture Executive European Agency (EACEA) approved the Erasmus Mundus Plus JMD program in Vaccinology to be launched in 2016-2017 course. The consortium, called LIVE (Leading International Vaccinology Education), is composed by five universities: University Claude Bernard Lyon 1 (coordinator), Autonomous University of Barcelona, University of Barcelona, University of Antwerp and University Jean Monnet Saint-Etienne. This consortium has combined three official masters, such as the Master of Advanced Immunology at the University of Barcelona and the Autonomous University of Barcelona, the Master in Infectious and Tropical Diseases at the University of Antwerp and the Master in Genetics & Cell Biology-Fundamental Infectiology from the Universities of Lyon and Saint-Etienne, to give rise to Erasmus Master Plus in Vaccinology (LIVE).

Teaching Contents