

Medical Immunology

Code: 102928
ECTS Credits: 4

Degree	Type	Year	Semester
2502442 Medicine	OB	3	0

Contact

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Use of languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: No
Some groups entirely in Spanish: No

Teachers

Marta Vives Pi
Oscar de la Calle Martin
Juan Francisco Delgado de la Poza
Eva Maria Martinez Caceres
Candido Juarez Rubio
Manuel Hernández González
Maria Jose Amengual Guedan
Aina Teniente Serra
Maria Esther Moga Naranjo
Roger Colobrán Oriol
Mónica Martínez Gallo

External teachers

Bibiana Quirant Sánchez
Clara Franco Jarava
Gemma Vila Pijoan
Janire Perurena Priento
Joan Climent Martí
Laura Viñas Gimenez
Maite Sanz Martínez
Romina Dieli Crimi

Prerequisites

It is advisable that the student has attained basic skills in cell biology, biochemistry and molecular biology before enrolling in the immunology course.

It is absolutely necessary to have acquired sufficient knowledge in: general and specific anatomy and physiology of different organs and systems.

The student will preserve the confidentiality and professional secrecy of the data to which he / she may have access through to the learning process in the health care provider facilities. In addition, he/she behavior will follow the professional ethical code.

Objectives and Contextualisation

1) To know the essentials features of the molecular, cellular, anatomical elements of the immune system (SI) and their function in the healthy individual.

2) To understand the role of the immune system in the following pathological processes:

- a. Common infections
- b. Allergies and hypersensitivity in general
- c. Immune-mediated diseases, autoimmune, autoinflammatory and other
- d. Immunodeficiencies
- e. Cancer
- F. Transplantation

3) To understand the basic action mechanisms of immune-based therapies:

- a) Vaccines,
- b) Immunosuppressants,
- c) Immunomodulators

4) To learn and understand the basis of the laboratory and clinical tests that have diagnostic value for the immune mediated diseases

Content

Contents of the subject by teaching units

Block 1 Basic Immunology

UD1 Introduction to immunology

UD2 Natural Immunity

UD3 Clonal receptors and their ligands

UD 4 Cells of the immune system

UD5 The immune response, regulation and effectors

Block 2 Immunopathology

UD6 The immune response in the whole organism and disease

UD7 immune responses in special clinical situations

UD8 Diagnostic tests in clinical immunology

UD9 immunology based therapies