

Testi del Syllabus

Resp. Did. **MACOR PAOLO** **Matricola: 006744**

Docente **MACOR PAOLO, 6 CFU**

Anno offerta: **2022/2023**

Insegnamento: **984SV - IMMUNOLOGIA MOLECOLARE E IMMUNOTERAPIA**

Corso di studio: **SM53 - GENOMICA FUNZIONALE**

Anno regolamento: **2021**

CFU: **6**

Settore: **MED/04**

Tipo Attività: **B - Caratterizzante**

Anno corso: **2**

Periodo: **Primo Semestre**

Sede: **TRIESTE**



Testi in italiano

Lingua insegnamento	INGLESE
Contenuti (Dipl.Sup.)	<ul style="list-style-type: none">- General aspects of the immune system and immune response- Antibodies / monoclonal antibodies / recombinant antibodies / human antibodies in diagnosis and for therapeutic purpose- Immune system and cancer / Cancer immunotherapy- Hypersensitivity and therapeutic neutralization of the immune system- Immunodeficiencies and therapies- Vaccines- transplantation: role of the immune system and therapeutic prevention of its activation
Testi di riferimento	<ul style="list-style-type: none">- SLIDES / Journal articles- Cellular and Molecular Immunology, Abbas, Elsevier
Obiettivi formativi	knowledge and understanding of the characteristics of the immune system and of most recent development in the immune-therapeutic approaches, in order be part of a discussion in the topics proposed in the course and to applied them in a research context
Prerequisiti	Basic knowledge of Immunology, Pathology, microbiology
Metodi didattici	Frontal lessons, seminars and discussion of scientific articles with active work of the students.
Altre informazioni	Paolo Macor - Dept of Life Sciences, University of Trieste - Q building - Room 301 - pmacor@units.it

Modalità di verifica dell'apprendimento

Final written exam.

Any changes in these modalities, required for the application of specific protocols linked to COVID19 emergency, will be communicated using the webpages of the Department of Life Sciences and of the course.

Programma esteso

- General aspects of the immune system and immune response both in physiological and pathological conditions.
- Development and characterization of polyclonal antibodies / monoclonal antibodies / recombinant antibodies / human antibodies and their use in diagnosis and for therapeutic purpose
- Role of the immune system in cancer development.
- Cancer immunotherapy, including antibody-based immunotherapy, vaccines, cellular immunotherapy, CAR-T cells.
- Hypersensitivity as description of pathological immune response and neutralization of the immune system as approach for the prevention or the therapy of diseases.
- Immunodeficiencies and therapies to restore immune system activity
- Vaccines as preventive approach against infection
- Blood transfusion, bone marrow transplantation and solid organ transplantation: role of the immune system and therapeutic prevention of its activation

Obiettivi Agenda 2030 per lo sviluppo sostenibile**Obiettivi per lo sviluppo sostenibile**

Codice	Descrizione
3	Salute e benessere

**Testi in inglese**

	English
	<ul style="list-style-type: none"> - General aspects of the immune system and immune response - Antibodies / monoclonal antibodies / recombinant antibodies / human antibodies in diagnosis and for therapeutic purpose - Immune system and cancer / Cancer immunotherapy - Hypersensitivity and therapeutic neutralization of the immune system - Immunodeficiencies and therapies - Vaccines - transplantation: role of the immune system and therapeutic prevention of its activation
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Obiettivi per lo sviluppo sostenibile

Codice	Descrizione
3	Good health and well-being