

Testi del Syllabus

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

Docente **MACOR PAOLO, 6 CFU**

Anno offerta: **2020/2021**

Insegnamento: **761SM - IMMUNOLOGIA MOLECOLARE**

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

Anno regolamento: **2019**

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	-
Metodi didattici	Frontal lessons and seminars
Altre informazioni	-

Modalità di verifica dell'apprendimento	Final written exam
Programma esteso	<ul style="list-style-type: none"> - 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

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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	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
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	Frontal lessons and seminars
	-
	Final written exam
	<ul style="list-style-type: none"> - 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