



## GENERAL AND CLINICAL PATHOLOGY / IMMUNOLOGY

<b>Enrollment year</b>	2019/2020
<b>Academic year</b>	2019/2020
<b>Regulations</b>	DM270
<b>Academic discipline</b>	MED/04 ()
<b>Department</b>	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
<b>Course</b>	NURSING
<b>Curriculum</b>	PERCORSO COMUNE
<b>Year of study</b>	1°
<b>Period</b>	(02/03/2020 - 05/06/2020)
<b>ECTS</b>	2
<b>Lesson hours</b>	30 lesson hours
<b>Language</b>	
<b>Activity type</b>	WRITTEN TEST
<b>Teacher</b>	CAZZALINI ORNELLA - 2 ECTS
<b>Prerequisites</b>	Knowledge of biochemistry, physiology and cellular biology.
<b>Learning outcomes</b>	The aims are: - to introduce the student to the causes and mechanisms that are the basis of human pathological processes; - to acquire the basics of the immune response; - to learn the scientific terms and the language used in medicine for effective communication with other health workers.
<b>Course contents</b>	iology Pathogens: (A) intrinsic to the organism (genetic pathology); (B) extrinsic to the organism (environmental pathology): 1) physical agents (radiations, high and low temperatures); 2) chemical agents (damage mechanism, absorption and elimination

pathways, organism defense mechanisms, exogenous and endogenous poisons);

3) nutritional alterations

4) biological interactions.

Regressive processes (cellular pathology)

- hypoplasia, hypotrophy;
- cellular degeneration, degeneration of the fundamental substance of the connective tissue;
- pathological calcifications;
- pathological pigmentation;
- necrosis and apoptosis.

Inflammation: causes, moments, aspects, evolution; Chronic granulomatous inflammation.

Healing processes.

Pathologic growth: Hypertrophy and hyperplasia.

Biology of tumors: definition, benign and malignant tumors, invasion, metastasis, cachexia, etiology, principles of classification, epidemiology, diet influence.

Complex lesions: Thrombus and atherosclerotic lesion.

The concept of Immunity, innate and acquired immunity, immunopathology.

#### Teaching methods

Lectures

#### Reccomended or required readings

G.M. PONTIERI

Elementi di patologia generale – Piccin

M. PAROLA

Patologia generale – EdiSES

L.A. STIVALA - V. VANNINI

Guida alla studio della Patologia generale - Print Service

ABBAS A.K., LICHTMAN A.H., PILLAI S.

Le basi dell'immunologia – Edra

QUAGLINO E., CAVALLO F., FORNI G.

Le difese immunitarie – PICCIN

DOAN T., MELVOLD R., VISELLI S., WALTEBAUGH C.

Le basi dell'Immunologia - Zanichelli

The slides of the lectures will be available in Kiro site.

#### Assessment methods

Written exam composed by open questions or multiple choice.

#### Further information

Written exam composed by open questions or multiple choice.

