



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Principi di Patologia Oculare

2122-3-E3002Q018

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#### Aims

The course is intended to provide students with fundamental concepts on pathology relevant for their professional field.

#### Contents

PATHOLOGY: Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and innate immunity. The immune response. Tissue damage. Inflammation and tissue repair. Oncology.

#### Detailed program

GENERAL PATHOLOGY: Homeostasis and disease. Etiology and pathogenesis: disease-causing agents. Acquired and innate immunity. Cells, tissues and organs of the immune system. Tissue damage. Acute and Chronic Inflammation, tissue repair. Cellular growth alterations. Oncology.

OCULAR PATHOLOGY:

- Bulbar and ocular anatomy. Optical pathway anatomy.
- Ocular physiology: single binocular vision, extrinsic and intrinsic ocular motility, eyelid motility, lacrimation physiology, corneal physiology, pupillary reflexes, ocular hydrodynamic physiology, accommodation, vision physiology, epithelial physiology retinal pigment.
- Clinical and instrumental diagnostics. Visual acuity, visual field, main clinical signs, clinical instrumentation, visual acuity examination, visual field examination, biomicroscopy, tonometry, retinal angiography, optical coherence

tomography, ultrasound.

- Refraction defects: myopia, hyperopia, astigmatism.
- Acute affections disabling visual function: hemovitreous, occlusion of the central artery and central retinal vein, exudative age-related macular degeneration, rhegmatogenous retinal detachment, anterior ischemic opticopathy, papillitis, retrobulbar neurotrophicopathy.
- Chronic affections disabling the visual function: refractive errors, cataracts, open angle glaucoma, atrophic age-related macular degeneration.
- Mainly inflammatory affections: blepharitis, dacryocystitis, conjunctivitis, keratitis, dry eye, iridocyclitis, angle closure glaucoma (acute glaucoma).
- The eye and systemic diseases: diabetic retinopathy, hypertensive retinopathy, ocular immunopathology, papilledema, incomitant strabismus, exophthalmos.
- Ocular pathologies of pediatric interest: amblyopia, concomitant strabismus, leukocoria, congenital glaucoma.
- Ocular traumatology

## **Prerequisites**

Propedeutic courses.

## **Teaching form**

Ex cathedra lectures.

## **Textbook and teaching resource**

PATOLOGIA GENERALE: Pontieri G.M., Elementi di Patologia per i corsi di Laurea in Professioni Sanitarie, III Edizione, Piccin

Slides and teaching materials

## **Semester**

III year I Semester

## **Assessment method**

Multiple Choice Test

It is possible, at the request of the student, to take the exam in English

## **Office hours**

Upon request

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