



Dipartimento di Scienze e Tecnologie

ACADEMIC YEAR 2017/2018

PROGRAM

1st YEAR

DEGREE : BIOLOGY

CLASS: PHYSIOPATHOLOGY (6 CFU)

TEACHER: FRANCESCO MARIA PACIFICO

IMMUNOPATHOLOGY. Hypersensitivity reactions; tolerance and autoimmunity; transplantation and rejection; immunodeficiencies.

PHYSIOPATHOLOGY OF THERMOREGULATION. Hyperthermias, hypothermias and fever.

PHYSIOPATHOLOGY OF BLOOD. Blood composition; haematopoiesis and erythropoiesis; haemoglobin and haemoglobinopathies; anemias.

PHYSIOPATHOLOGY OF ENDOTHELIAL CELLS. General aspects. Endothelial cells and extracellular matrix. Endothelial cells functions. Angiogenesis and vasculogenesis.

PHYSIOPATHOLOGY OF LIPID METABOLISM. General aspects. Hyperlipoproteinemias and hypolipoproteinemias.

ATHEROSCLEROSIS. General aspects. Atheroma and dynamic of plaque formation.

ONCOLOGY. Oncogenes, oncogene addiction and tumor suppressors. Cancerogenesis. Tumor etiology, epidemiology and heritable predisposition. Solid and haematopoietic tumors Principles of cancer radiotherapy and chemotherapy. Tumor targeted therapy and immunotherapy. Cancer-related inflammation.



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Textbooks:

G. Pontieri, Patologia generale, Piccin Editore

AA.VV., Patologia generale, Idelson-Gnocchi Editore

Robbins e Cotran, Le basi patologiche delle malattie, Piccin Editore

F. Celotti, Patologia generale e fisiopatologia, Edises

A. Abbas, Immunologia Cellulare e Molecolare, Piccin Editore

Janeway's, Immunobiologia, Piccin Editore

P. Parham, Il sistema immunitario, Edises