Section of General, Clinical and Oncological Pathology

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Biometec: a research for life
LABORATORY OF IMMUNOPATHOLOGY AND TRANSLATIONAL IMMUNOPHARMACOLOGY
AIMS: Cellular and molecular immunology, immuno-pharmacology, toxicology and experimental oncology to develop novel approaches for the treatment of cancer and immunoinflammatory and autoimmune diseases. To these aims, preclinical models of cancer, immunoinflammatory, autoimmune and metabolic disease are used in addition to other biomolecular approaches.

LABORATORY OF MOLECULAR IMMUNOPATHOLOGY
AIMS: Diagnostic and prognostic significance of the chitinases in chronic degenerative diseases, neoplasms and metabolic diseases; Studies of the role of Vitamin D3 in immunity and neoplastic processes; Studies on the role of OAS genes in viral infections and in response to interferons.
LABORATORY OF TRANSLATIONAL ONCOLOGY & FUNCTIONAL GENOMICS

AIMS: Study of molecular mechanisms involved in the genesis and progression of tumors and the identification of new elements for a more effective diagnosis, prognosis and treatment of cancer.

RESEARCH UNIT OF THE ITALIAN LEAGUE AGAINST CANCER - SECTION OF CATANIA

AIMS: Behavioral factors in cancer etiology and prevention; Primary and secondary cancer prevention. To these aims the following activities are performed: Bio-banking; Cancer prevention survey and medical record storage; Case control studies and risk factors identification; Nutrition and cancer: Clinical trial design.
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INTERNATIONAL COLLABORATIONS

FUNDING SUPPORTS

University Of Crete

COSMO Pharmaceuticals

OncoNOx

University Of Maryland School Of Medicine

MD Anderson Cancer Center

World Health Organization

Ministero della Salute

Regione Siciliana

Assessorato della Salute

East Carolina University

herlev hospital

Kedrion Biopharma

Pfizer

GW Pharmaceuticals

Nutritional Sciences

University of Toronto

IDIBAPS
Section of General, Clinical and Oncological Pathology

Research paper selection of Biometec (2016-2019)

Expression of DNA methylation genes in secondary progressive multiple sclerosis.

MMP-9 overexpression is associated with intragenic hypermethylation of MMP9 gene in melanoma.

Computational identification of microRNAs associated to both epithelial to mesenchymal transition and NGAL/MMP-9 pathways in bladder cancer.

Vitamin D3 regulates LAMP3 expression in monocyte derived dendritic cells.

HIV-protease inhibitors for the treatment of cancer: Repositioning HIV protease inhibitors while developing more potent NO-hybridized derivatives?

CHI3L1 and CHI3L2 overexpression in motor cortex and spinal cord of sALS patients.

Pathogenic role for macrophage migration inhibitory factor in glioblastoma and its targeting with specific inhibitors as novel tailored therapeutic approach.

Involvement of the Nrfl2/HO-1/CO axis and therapeutic intervention with the CO-releasing molecule CORM-A1, in a murine model of autoimmune hepatitis.


Decitabine induces regulatory T cells, inhibits the production of IFN-gamma and IL-17 and exerts preventive and therapeutic efficacy in rodent experimental autoimmune neuritis.

MMP-9 as a Candidate Marker of Response to BRAF Inhibitors in Melanoma Patients With BRAF(V600E) Mutation Detected in Circulating-Free DNA.

Fasting and Fast Food Diet Play an Opposite Role in Mice Brain Aging.

EpiMethEx: a tool for large-scale integrated analysis in methylation hotspots linked to genetic regulation. BMC Bioinformatics.

Role of MIF and D-DT in immune-inflammatory, autoimmune, and chronic respiratory diseases: from pathogenic factors to therapeutic targets.

Identification of Novel MicroRNAs and Their Diagnostic and Prognostic Significance in Oral Cancer.

Prevention of clinical and histological signs of MOG-induced experimental allergic encephalomyelitis by prolonged treatment with recombinant human EGF.

The analysis of miRNA expression profiling datasets reveals inverse microRNA patterns in glioblastoma and Alzheimer’s disease.

Effects of Treatment with the Hypermethylation Agent 5-aza-2’-deoxycytidine in Murine Type II Collagen-Induced Arthritis.