

Medicina Traslazionale e Molecolare – DIMET

LS1_2 Biochemistry

LS1_8 Molecular biophysics (e.g. single-molecule approaches, bioenergetics, fluorescence)

LS1_10 Molecular mechanisms of signalling pathways

LS2_1 Molecular genetics, reverse genetics, forward genetics, genome editing

LS2_5 Epigenetics and gene regulation

LS2_6 Genomics (e.g. comparative genomics, functional genomics)

LS2_8 Transcriptomics

LS2_9 Proteomics

LS2_10 Metabolomics

LS2_12 Bioinformatics

LS4_5 Metabolism, biological basis of metabolism-related disorders

LS4_6 Fundamental mechanisms underlying cancer

LS4_7 Fundamental mechanisms underlying cardiovascular diseases

LS5_1 Neural cell function, communication and signalling, neurotransmission in neuronal and/or glial cells

LS5_2 Systems neuroscience and computational neuroscience (e.g. neural networks, neural modelling)

LS5_3 Neuronal development, plasticity and regeneration

LS5_7 Neurological disorders (e.g. neurodegenerative diseases, seizures)

LS6_2 Adaptive immunity

LS6_3 Regulation and effector functions of the immune response (e.g. cytokines, interferons and chemokines, inflammation, immune signalling, helper T cells, immunological memory, immunological tolerance, cell-mediated cytotoxicity, complement)

LS6_4 Immunological mechanisms in disease (e.g. autoimmunity, allergy, transplantation immunology, tumour immunology)

LS6_5 Biology of pathogens (e.g. bacteria, viruses, parasites, fungi)

LS7_2 Genetic tools for medical diagnosis

LS7_4 Pharmacology and pharmacogenomics (including drug discovery and design, drug delivery and therapy, toxicology)

LS7_5 Applied gene and cell therapies, regenerative medicine

LS7_7 Analgesia and surgery

LS9_1 Applied biotechnology (including transgenic organisms, applied genetics and genomics, biosensors, bioreactors, microbiology, bioactive compounds)

LS9_2 Applied bioengineering, synthetic biology, chemical biology, nanobiotechnology, metabolic engineering, protein and glyco-engineering, tissue engineering, biocatalysis, biomimetics