



ISTITUTO PASTEUR ITALIA
FONDAZIONE CENCI BOLOGNETTI

Molecular interactions
Biochemistry and metabolism
DNA synthesis, modification, repair, recombination and degradation
RNA synthesis, processing, modification and degradation
Protein synthesis, modification, processing and turnover
Lipid synthesis, modification and turnover
Carbohydrate synthesis, modification and turnover
Structural biology
Biochemistry and molecular mechanisms of signal transduction

Genomics, comparative genomics, functional genomics
Transcriptomics
Proteomics
Metabolomics
Glycomics
Molecular genetics, reverse genetics and RNAi
Epigenetics and gene regulation
Bioinformatics
Computational biology
Systems biology
Biological systems analysis, modelling and simulation

Cell biology and molecular transport mechanisms
Cell cycle and division
Cell metabolism
Cell migration
Cell death and apoptosis
Cellular senescence
Autophagy
Cell differentiation, physiology and dynamics
Cell to cell communication
Organelle biology
Cell signalling and cellular interactions
Development, developmental genetics,
Stem cell biology

Molecular mechanisms of communicable and non-communicable diseases
Cancer biology
Cancer genetics
Neurophysiology,
Molecular and cellular neurobiology and neuropathology
Innate immunity and inflammation
Adaptive immunity
Immunosignalling
Immunometabolism
Immunogenetics
Immunoncology
Immunopathology

Autoimmunity

Microbiology

Virology

Bacteriology

Parasitology

Host-pathogen interaction

Emerging and reemerging infections

Prevention and treatment of infections

Biological basis of inflammatory and degenerative disorders

Drug design and discovery

Drug therapy

Gene therapy

Cellular therapy

MOlecular Medicine

Biological basis of inflammatory and degenerative disorders

Regenerative medici