













R&D Capabilities

Departments, centres and research institutes of the UAB^{CIE} Sphere have demonstrated excellence in their field of R&D, promoting multidisciplinary research and knowledge transfer.

Therefore, we promote collaboration, information sharing and the creation of agreements between research centres and companies with the aim of increasing innovation and business competitiveness.

In this section we present the scientific and technological capacities of the research groups of the Esfera (Sphere) UAB^{\rm CIE} organized by subject.



APLICATIONS	SOLUTIONS
Cell biology	Regenerative medicine
	Cancer
	Cloning and Stem Cells
	Cytotoxic effects of physical, chemical or biological agents
	Cell death and senescence
Immunology	Cellular immunology
	Molecular immunology
	Immunology of reproduction
	Computational Biology
Bioinformatics	Theoretical Molecular Biology
	Evolutionary bioinformatics
	Identification of proteins
Proteomics	Molecular weight analysis of proteins and peptides
	Caracteritzación and protein modification
	Protein Sequencing
	Protein engineering and Enzymology
	Structure, development and stability of proteins
Genetics	Chromosomal rearrangements
	Evolutionary Genetics
	Genotoxicity
	Genetic diseases
	mutagenesis
	Anemia
	Genetics
	Cytogenetics
	Bacterial molecular genetics

R&D CAPABILITIES BIOTECHNOLOGY & HEALTH

0	Comparative and functional genomics
Genomics	Genome Structure
	Mycobacteriology
	Design of microbial sensors
	Effects of pollutants on microbial population
Microbiology	Design of new vaccines
	Gene expression in pathogenic bacteriostatics
	Antibacterial resistance
	Biological applications of bacteriophages
	Neurodegeneration
	Neuronal regeneration and plasticity
	Behavioural, cognitive and psycho-neuro disorders
	Cellular and molecular basis of the nervous system
Neuroscience	Neurochemistry
	Neuroinflammation
	Neuro-immuno-gastoenterology
	Biology of stress and addictions
	Biología del estrés y les addicciones
	Medical Physiology
Dhysiology	Ecophysiology
Physiology	Cancer and Food
	Cardiovascular risk
	Production of new viral vectors
Cono Thorany	Therapeutic approaches to diabetes mellitus and other diseases
Gene Therapy	Autoimmune diseases
	Animal Models

R&D CAPABILITIES BIOTECHNOLOGY & HEALTH

	Bioprocess Engineering
	Study of biomolecules
	Sensors and biosensors
	Study of cell cycle regulation
	Molecular biophysics applied to biomedicine
Biochemistry	Biochemistry of the nervous system
	Biochemistry and molecular biology of plants
	Biochemistry and molecular biology in yeast
	Molecular pathology
	Metabolic regulation
	Neuropharmacology
	Vascular pharmacology
	Basic pharmacology
Pharmacology and toxicology	Clinical Pharmacology
and toxicology	Asthma and other allergic diseases
	Environmental Toxicology
	Phytotoxins
	Psychopathology
	Medical Psychology
	Psychobiology
Clinical psychology and health	Genetic basis of intellectual disability
	Eating disorders and weight
	Neuroimaging in neuropsychology and neuropsychiatry
	Morphological Sciences
	Human Embryology
	Pathology, dissection and bone library
	Surgery
Medicine and	Legal, Forensic Medicine and Psychiatry
	Paediatrics
	Nursering
	Obstetrics and Gynaecology
	Preventive medicine
	Biomedical research methodology
Biostatistics	Design and statistics in health sciences
	Analysis, processing and data management

R&D CAPABILITIES BIOTECHNOLOGY & HEALTH



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