EXPERIMENTAL ELECTROPHYSIOLOGY UNIT

The IBUB, with the collaboration of the Department of Biochemistry and Molecular Biology from the Faculty of Biology, supports the creation by the laboratory of Molecular Physiology, led by Dr. Antonio Felipe, of a scientific and technological experimental electrophysiology unit. This unit, that will operate both for research and teaching, consists of an inverted epifluorescence microscope, a pipette puller, a micro-forge, a hydraulic micro-manipulator, a Faraday cage, a digital and analog image capturing unit for TV in real time, a pneumatic anti-vibration table of compressed air and a high-end signal amplifier. This equipment, which measures electrical currents generated by the activity of membrane proteins, allows the study of membrane potential and ion movements generated by the cardiac action potential and nerve impulse transmission, among other physiological phenomena. Such technologies are of great importance in interdisciplinary research in biomedicine in the areas of cardiovascular, neurobiology, immunology and metabolism diseases. The unit is located in the Faculty of Biology, in the new building.

This type of equipment is unique on campus Diagonal of the UB

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