



CELL CULTURE UNIT PORTFOLIO OF SERVICES

The Cell Culture Platform activities are focused on providing users with flexible, innovative, and results-oriented services in a collaborative and translational research framework. Generally, the Cell Culture Division offers support for experimental approaches developed by IdiPAZ and non-IdiPAZ scientists on a extensive range of matters including cell experimentation, consumables and reagents, equipment and laboratory area, technical assistance, training and research.

The specific support provided by this Unit includes:

- Technical and basic instruction (hands-on training), according to lab biosafety guidelines and aseptic techniques, in the experimentation while using cell and tissue cultures.
- Access to instrumentation and reagents, assistance and support for the optimal use of facilities and equipment.
- Provision of sterile supplies, disposable labware, consumables and sterile solutions for cell culture work.
- General maintenance of the laboratory including periodic inspection, cleaning, waste disposal, sterilization and disinfecting procedures, coordination of the use of the equipment and execution of the preventive maintenance program, supply/replacement/stocking of reagents, chemicals, labware and consumables, etc.
- Scientific and technical management, consultation and support in planning, development and implementation of cell culture related-techniques, experimental design and protocols according to every user's specific requirements. This division also offers expertise to support data interpretation and other requirements.
- Performance of experimental procedures by experienced and highly skilled staff: acquisition, isolation of cells for culture, cell resuscitation, subculturing and maintenance, propagation, cryopreservation and banking of cell lines and primary cell cultures, cell density and viability determination, etc.
- Detection, identification and treatment of contaminations in cell cultures. Preventive analysis and decontamination procedures.
- Development of protocols, guidelines, operating procedures, reports and management of the required mandatory documentation with particular emphasis on waste segregation and disposal, biosafety and biological accidents.

Besides these standard services, this platform offers collaboration with individual researchers as an effective way to improve and to expand the portfolio of technology and services offered. Furthermore, and as part of its commitment to warrant users the optimal development of their research projects, the contact to other centralised equipment and affiliated facilities is also provided.