

# RADIOBIOLOGY



## INTRODUCTION

The “Radiobiology” research group of University of Malaga has a laboratory equipped to carry out studies in cell culture and molecular biology techniques. It is also authorized for the confined use of GMOs.

## RESEARCH TOPICS

- Predictor factors and modifying agents in the antineoplastic treatment response.
- Effects of electromagnetic fields.
- Molecular radiobiology.
- Cellular aging.
- Biological and environmental dosimetry.
- Molecular markers.
- Radiation and BioArchitecture.

## SCIENTIFIC-TECHNICAL SERVICES

- Measurements of environmental electromagnetic radiation. Electromagnetic dosimetry of low frequency and mobile telephony in urban environments.
- Study of electromagnetic field effects on biological systems.
- Study of the effects of ionizing radiation.
- Biological evaluation of the efficacy of photoprotectors and screens against ultraviolet radiation.
- Evaluation of the efficacy of radiosensitizers and radioprotectors.
- Maintenance and criopreservation of cell lines. Drug resistant cell lines.
- Control and in vitro evaluation of the cytotoxic effect of antineoplastic drugs and chemical agents. Clonogenic assay, drop test, growth, neutral red, etc. Evaluation of DNA damage.
- In vitro evaluation of the effect of molecules and drugs on cellular aging.
- Search for molecular markers of drug resistance, radiation and cell aging.
- In Silico studies from proteomic data, applied to biotechnology and biomedicine.

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