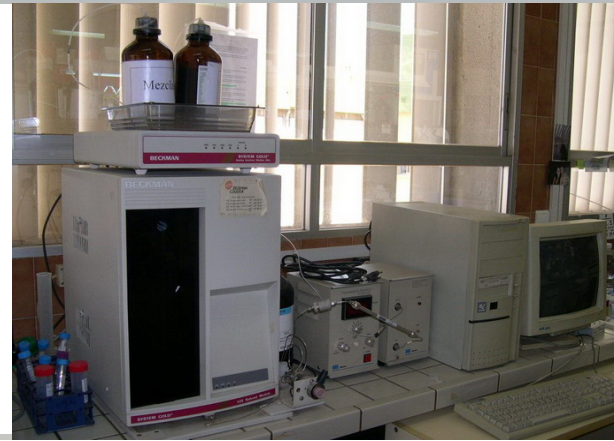




MOLECULAR BASES OF BIOLOGICAL SYSTEMS



INTRODUCTION

The members of this research group have more than 20 years of work with human and animal cell cultures, carrying out a complete repertoire for the screening and characterization of bioactive anticancer and anti(lympho)angiogenic compounds. In addition, the group integrates expertise in bioinformatics and computational analysis from diverse fields of interest with the capacity for genetic circuit design, metabolic engineering, and optimization through different directed evolution methodologies (<https://clinsysbiolab.com>). This varied scientific activity allows the group to provide a wide range of services to the pharmaceutical industry and biotechnology and agri-food companies.

RESEARCH TOPICS

- Molecular study of cancer, angiogenesis, and metabolism.
- Bioinformatics and systems biology applied to rare diseases and prevalent diseases.
- Synthetic biology: basic and applied approaches to biotechnology.

SCIENTIFIC-TECHNICAL SERVICES

- Platform for drug discovery with antitumor and antiangiogenic activity. In vitro and in vivo analysis for preclinical trials.
- Platform for bioinformatics and computational systems biology. Bioinformatic services in Biomedicine and Agrifood.
- Study of genetic and functional-omics data related to diseases, analysis of patient-phenotype data, prioritization of targets, as well as development of cancer biomarkers.
- Synthetic biology platform. Genetic and metabolic engineering studies and directed evolution methodologies.

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