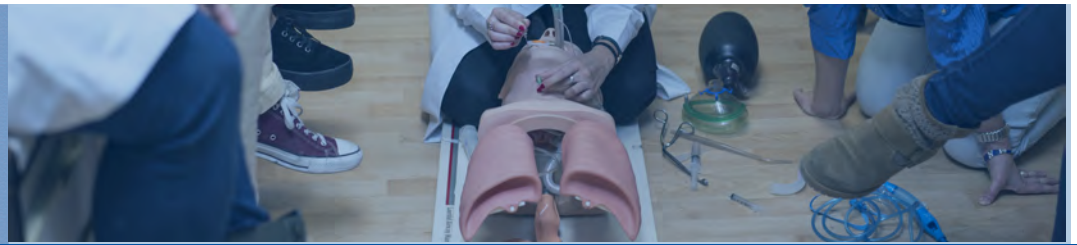




Universidad  
de Alcalá



## NEW ANTI-TUMOR AGENTS: TOXIC ACTION ON LEUKEMIC CELLS

Code  
645

### LEUCAGENT

#### RESEARCH AREA

Health Sciences

#### COORDINATOR

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#### KEY WORDS

Antioxidants, Antitumor,  
Apoptosis, Coumarines,  
Esculetin, Reactive Oxygen  
Species, Oxidative  
stress, Flavonoids,  
Ganoderma, Leukemia,  
Toxicity

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# LEUCAGENT

### ABOUT US

The study and analysis of the effects of different antitumor compounds, from natural or synthetic origin, on the death of human leukemia cells. We analyze the induction of cytotoxic effects on tumor cells mainly leukemia cells, by antitumor compounds such as vinblastine, dequalinium, antioxidants or triterpenes from plant species (i.e. mushrooms from the Ganoderma genus). We search for the mechanisms of programmed cell death as well as changes in the action of intracellular kinases subsequent to the treatment with these compounds.

### RESEARCH LINES

- Role of intracellular kinases in tumor progression
- Mechanisms of antitumor action
- Toxicity and apoptosis
- Isolation and purification of active antitumor compounds from plant species

### OFFERED SERVICES

- Analysis of cytotoxicity of natural products on cell cultures. We work mainly with APL (Acute promyelocytic leukemia) cells.
- Studies of apoptosis produced by oxidants, oxidative stress considering the changes in the levels of Reactive Oxygen Species as well as the protection by antioxidants

### MARKETABLE RESULTS

