



INTELLECTUAL PROPERTY RIGHTS

The invention is protected by European Patent, EP21382036.8, dated January 18, 2021, jointly owned by the University of Valencia. Titled: "Compositions and method for preventing, ameliorating or reducing radiation-induced diseases"



CURRENT STATE OF DEVELOPMENT

Currently, the experimental phase has ended and the prototype formula has been developed.



MARKET APPLICATION SECTORS

The present invention could be of interest to:

- Medical institutions focused on radio imaging and radiotherapy
- Regulatory Institutions (such as FAO, IAEA, etc.)
- Military sector and related institutions
- Companies and institutions of the aeronautical sector
- Companies related to the use of ionizing radiation



COLABORATION SOUGHT

Inventors are interested in licensing the patent.

DESCRIPTION OF THE TECHNOLOGY

New formula that effectively protects organs and tissues against the deleterious effects of ionizing radiation, combining two natural polyphenols - radioprotection - and two molecules with repairing effects of radiation damage - radiomitigators - allowing prolonged survival after administration.

Electromagnetic radiation damages cells by direct ionization of DNA and other molecules, and also by indirect effects through reactive oxygen species. And the response it produces depends on the type of cell and the radiation dose, sensitivity and repair of each tissue, as well as the modulating intracellular factors that include the status of the cell cycle, O₂ pressure and the levels of thyroid and other antioxidants.

ADVANTAGES

- ✓ Effective radiation protection
- ✓ Therapeutically mitigates acute radiation
- ✓ Presents multiple applications



EXTRA INFORMATION

This Project has been supported by:



GENERALITAT
VALENCIANA



BANCO DE
PATENTES

itemas iscii