

Vegetal compositions including extracts of *Sechium chinatlense* and *Sechium compositum* and their use as antineoplastics



Enfoque

Natural products

Description

This invention presents a crude extract made of *Sechium chinatlense* and *Sechium compositum*, as inhibitor of proliferation and inducer of apoptosis in cancer cells (solid tumors and leukemia). The extract shows minimal toxicity on normal hematopoietic tissue in vitro, justifying its antitumor potential.

By increasing the mitotic index of bone marrow cells in vivo, the extract regenerates leukocyte therefore it has a potential use as restorer of hematopoiesis after myelosuppression by chemotherapy or radiation.

Application

Chemotherapy remains the most used treatment of cancer patients. However chemotherapy agents damage both tumor cells and normal cells and tissues, including the hematopoietic tissue. As a consequence the patient suffers from myelosuppression, which limits the cancer treatment itself. An agent to remove tumor cells without

harming normal ones is desirable.

Stage of development

Production of natural extracts in laboratory scale.

In vitro tests

In vivo tests.

IP status

Patent application No. MX/a/2012/002675.

Inventors

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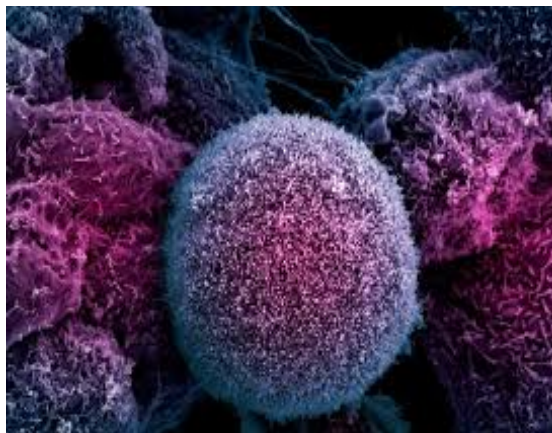
(Facultad de Estudios Superiores, Zaragoza)

Market potential

Neoplastic diseases are the second cause of death in most developed countries, exceeded only by heart disease. In the same way cancer rates are increasing in developing countries.

Transferring conditions

- ✓ Technological development agreement (optional).
- ✓ Licensing (includes front payment and royalties)



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