Therapies/ Biotech (Pharma)

Polymeric nanoparticles for use in therapy

A research group from the Andalusian Public Health System has developed some nanoparticles as transporter system of 5-fluorouracil which are useful to carry the anti-tumor agents to the specific targets.

Oficina de TRANSFERENCIA DE TECNOLOGÍA
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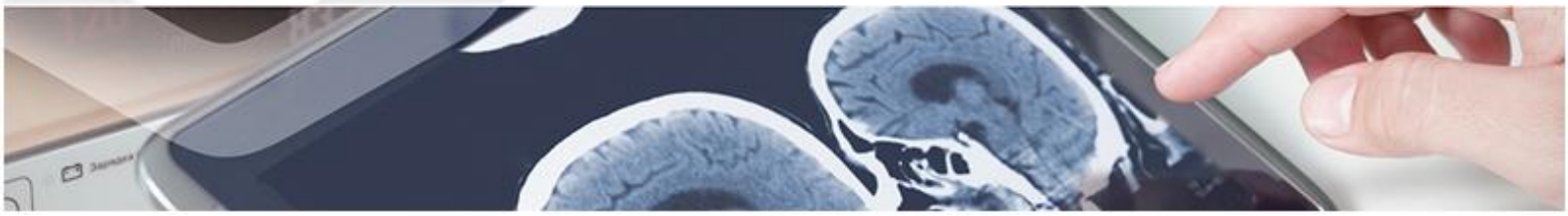

Description

To date, there are some drawbacks in the utilization of several molecules for cancer treatment:

- They are insufficient in number where the tumor is located.
- They are not sufficiently effective due to different mechanisms of resistance developed by tumor cells.
- They are not specific enough against a particular type of tumor.

These are the main reasons of failure of current chemotherapeutical treatments. For example: 5-fluorouracil for the treatment of advanced colorectal cancer (10% of global response)

Therefore, there is a need of providing a new strategic which allow solving this problems and also allowing i) a higher accumulation of the drug in the target region and ii) that the immune system slows down the removal of the molecules. All together would improve efficacy of the treatment.

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Advantages

1. These nanoparticles behave as an excellent carrier system.
2. Drug controlled liberation
3. Low toxicity due to its biocompatibility and biodegradability.
4. Significant increase of anti-tumor activity.

Intellectual Property

This technology is protected by patent

Aims

The group is looking for a license and/or collaboration agreement.

Classification

Area: Biotech-Pharma (Therapy)
Technology: Nanotecnology and Nanomedicine
Pathology: Oncology and Hematology

JUNTA DE ANDALUCIA
CONSEJERÍA DE IGUALDAD, SALUD Y POLÍTICAS SOCIALES

FIBAO
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