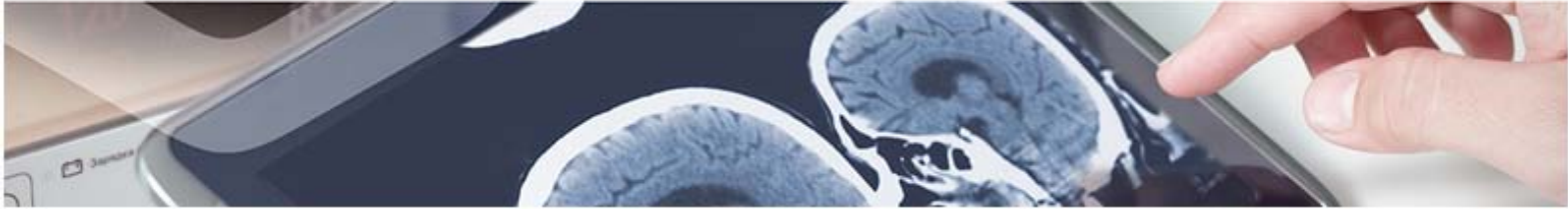




Therapy

Treatment of NK cell-mediated diseases and IFN- γ mediated diseases.

A research group from Andalusian Public Health System has developed a composition capable of modulating the biological activity of NK cells and IFN- γ



Description

Natural Killers cells are regulatory cells engaged in reciprocal interactions with dendritic cells, macrophages, T cells and endothelial cells. NK cells can thus limit or exacerbate immune responses. Although NK cells might appear to be redundant in several conditions of immune challenge in humans, NK cell manipulation seems to hold promise in efforts to improve hematopoietic and solid organ transplantation, promote antitumor immunotherapy and control inflammatory and autoimmune disorders.

Treatments currently available for NK cell mediated diseases such as dermatitis aim to control symptoms by reducing inflammation. Notably, steroids or topical immunosuppressant are used to control some of the symptoms due to cell-mediated immunity. However, corticosteroid based treatments have been shown to produce many side effects.

The research group has developed a composition which acts as a "natural immunosuppressant" and has similar properties to immunosuppressive drugs that are currently used to treat immune-mediated inflammatory disease, such as dermatitis.



Intellectual Property

The technology is protected by a european patent application.



Aims

The research group is looking for a collaboration agreement for further development or a licence agreement.



Classification

Area: Pharma – Biotech (Therapy)
Technology: Cell Therapy
Pathology: Autoimmune & Inflammation



Advantages

This composition shows a decrease in cytotoxicity, reduced proliferation and inhibition of interferon γ (IFN- γ) production by NK cells.