



Therapy

ORGANIC COMPOUNDS FOR THE TREATMENT OF RETINOPATHY AND DIABETIC NEPHROPATHY.

A group from the Institute for Biomedical Research and Innovation in Cadiz (INiBICA) has designed a treatment for diabetic retinopathy and nephropathy using organic compounds.

Oficina de
**TRANSFERENCIA
DE TECNOLOGÍA**
Sistema Sanitario Público de Andalucía



Description

As a result of the collaboration between researchers from different research groups attached to the Institute for Biomedical Research and Innovation of the Province of Cadiz (INiBICA), a molecule has been developed and validated with anti-inflammatory and chemopreventive potential in inflammatory processes in general, in diseases due to underlying inflammatory processes, and in inflammatory processes related to the development of Diabetes Mellitus and its complications.

It is a group of molecules that can be obtained through different synthesis methods, as well as naturally. From the point of view of biological activity, only the cytotoxic activity of several synthetic 3-ariththalides has been described, while antifungal, antioxidant, bactericidal and cytotoxic activity has been described for the natural molecules.

So far, no anti-inflammatory activity has been reported for these molecules. However, INiBICA researchers have determined in vitro activity as anti-inflammatory agents.



Advantages

1. This is a completely novel structure, as this compound has not been described before.

2. The previously undescribed anti-inflammatory activity of this compound family has been demonstrated.
3. These compounds would be relevant for the treatment of diabetic retinopathy and nephropathy associated with the inflammatory process associated with diabetes mellitus.



Intellectual/Industry Property

It is protected by international patent application PCT (Publication No. WO2023007042A1) (national phase entry expected in 2024).



Aims

Collaboration is sought for the development and exploitation of the technology.



Classification

Area: Endocrinology

Pathology: Diabetes