

Gel insulin to deliver more effective treatments for diabetes

LOCATION: Granada

DURATION: 1'22"

SUMMARY: Researchers from the University of Granada and the Superior Council of Scientific Research (CSIC) have patented new technology that allows the development of a more stable insulin formulation that could be used for the treatment of diabetes. This is possible thanks to the transformation of crystalline insulin into a gel.

VTR:

Researchers from the University of Granada and the CSIC have patented new technology that allows the development of a more stable insulin formulation that could be used for the treatment of diabetes.

JUAN ANTONIO DÍAZ MOCHÓN
University of Granada researcher

"We have achieved to reach the in vivo animal tests phase, and we are focused on insulin because it is one of the most commonly used therapeutic proteins."

They have transformed crystalline insulin into a gel, enabling the creation of new and more effective formulations.

JUAN ANTONIO DÍAZ MOCHÓN
University of Granada researcher

"The technological progress is making, in just one step, therapeutic proteins, which currently are mostly used in the form of a solution through injections, by crystallising them and, so to speak, freezing them."

LUIS ÁLVAREZ DE CIENFUEGOS
Organic Chemistry professor

"With this process we give this protein the stability it needs to increase its half-life, and this way it becomes more efficient."

In addition, with the first animal tests, they have observed that this new way of administrating insulin increases the half-life of the medicine.

JOSÉ ANTONIO GAVIRA
CSIC researcher

"In less volume, we administrate a much larger amount of medicine. As it is on crystalline state, it also increases temporal stability."

The next steps are to register the international patent, speed-up the tests and exploit this technology through a spin-off company.

For more information or support please call +34 647 310 157 or email info@andalusianstories.com