Technology Offer

AN ALGORITHM FOR CALCULATING THE RISK OF TYPE 2 DIABETES IN CARDIOVASCULAR PATIENTS BASED ON GUT MICROBIOTA PROFILES, AS DETERMINED BY DIETARY INTAKE

Researchers from the Andalusian Public Health System (SAS), in collaboration with the University of Córdoba (UCO) and the Consorcio Centro de Investigación Biomédica en Red (CIBER), have developed an algorithm for calculating the risk of diabetes type 2

The Need

Type 2 diabetes mellitus is a major global health issue with wide social and economic effects. While the disease is clinically important, most clinicians focus on preventing or delaying complications instead of achieving remission. This is especially challenging for patients who also have cardiovascular disease, as having both conditions raises the risk of serious complications and death. Current prediction models for type 2 diabetes mostly use clinical data and are not very accurate. As a result, better tools are needed to identify people at risk and guide more effective treatments.

The Solution

There are no alternative products based on the gut microbiota. Current models for predicting the development of type 2 diabetes mellitus are based on clinical variables and have low predictive power.

A group of researchers has developed an algorithm to calculate the risk of patients with coronary artery disease developing type 2 diabetes mellitus over the next five years, as well as the percentage of risk associated with following a low-fat diet and a Mediterranean diet.

Innovative Aspects

- It allows you to calculate the risk percentage for a low-fat diet and the risk percentage for the Mediterranean diet.
- It has great potential for clinical use in recommending specific diets to reduce the risk of developing type 2 diabetes in patients with coronary artery disease.

Stage of Development:
Validated and protected technology waiting to be exploited.

Intellectual Property:

- Software registered by Safe Creative S.L.

Aims

Looking for a partner interested in a license and/or a collaboration agreement to develop and exploit this asset.

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