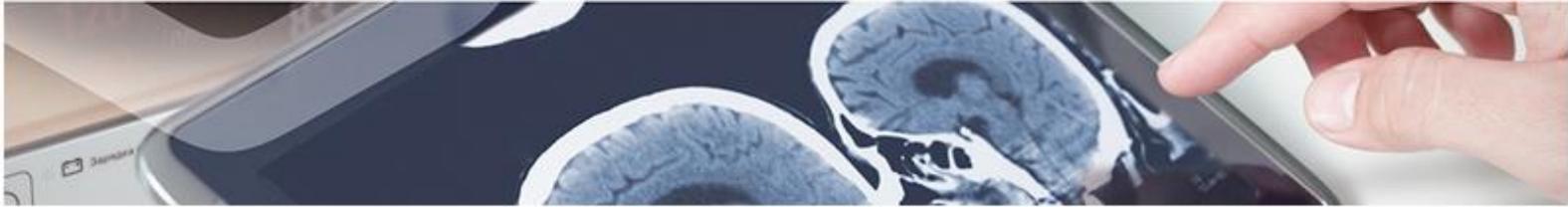


Therapy/Diagnose.

## Method to predict or diagnose rheumatoid arthritis development.

A research group from the Andalusian Public Health System in collaboration with the University of Malaga (UMA) and CIBER has proposed a new method to predict or diagnose the possibility of a patient of suffer rheumatoid arthritis or other diseases related with immunity system.

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### Description

**Rheumatoid arthritis (RA)** is a degenerative inflammatory chronic systemic disease and an autoimmune disease. RA produce articular damage and bone erosion, which decrease life quality and life expectancy. This process could start in mucous membrane and be mediated by microbiota.

AR diagnose is very complicated in the early stage, because first symptoms are very similar to other chronic inflammatory autoimmune diseases. So, currently, there is not any method for early diagnose.

To solve this problem, **the researcher group has identified a specific microbiota profile for RA patients.** Thanks to this discovery, the microbiota study, and especially microbiological population which are different between RA patients and healthy patients, could be used as biomarkers of RA. **These biomarkers could be useful in the RA and other inflammatory autoimmune disease diagnose, or in the severity assessment of the disease.** For this aimed is necessary to compare the measurement of these biomarkers with the levels established by researchers.

Moreover, this proposal includes the developed possibility of a commercial kit for inflammatory autoimmune disease diagnose, and new probiotics, prebiotics or nutraceutical compounds.



[http://www.ibima.eu/grupo\\_investigacion/endocrinologia-celular-y-molecular/](http://www.ibima.eu/grupo_investigacion/endocrinologia-celular-y-molecular/)



### Advantages

- **RA diagnose** in an early stage and **severity assessment.**
- Inflammatory autoimmune disease diagnoses.
- **Microbiota analysis is not an invasive method** and it is **easy to implement.**
- The use of this method reduce cost for the sanitary system.
- An early diagnose improves quality patient lives.



### Industrial Property

This technology is protected by international patent application with possibility of national phase extension.



### Aims

The research group is looking for partnership and/or license agreement.



### Classification

**Area:** Biotech-Pharma (Therapy) /Diagnose  
**Pathology:** Autoimmune and inflammatory diseases / Metabolic and endocrine diseases.