

# BIOSIGNATURES FOR ULCERATIVE COLITIS

Predictive biomarkers for the diagnosis & management of ulcerative colitis

## OVERVIEW



Ulcerative colitis (UC) is one of the **2 major types of inflammatory bowel disease (IBD)**, along with Crohn's disease. IBD is thought to affect 0.5% of the world population.

Chronic ulcerative colitis is associated with an elevated risk of developing colonic carcinoma. Although the **cause of UC is currently unknown**, its origin is suspected to be related to immune, inflammatory and environment causes.

The diagnostics of UC is currently based upon a combination of several exploration techniques. Clinical management is adapted to the disease stage, extent and intensity of the disease symptoms and manifestations, but **treatment is far from optimal**.



## PROJECT

**Sector:** Gastroenterology

**R&D direction:**

Diagnosis of Ulcerative Colitis  
Guidance for UC treatment

**Stage of development:** TRL2-3

**Scientific leader:** Dr. Josep Manyé

**Clinical Advisor:** Dr. Eugeni Domènech



## PRODUCT

**Potential indications:**

UC diagnosis and management

**Mechanism of action:**

Circulating biomarkers test

**Market size:** 420K tests per year

**Market value:** €19-27M per year



## IP PROTECTION

Patent at National Phase



## OPPORTUNITY

License out

Co-development



## NEEDS

Prolonged and **unnecessary exposure to corticosteroid**, and the lack of control of the inflammatory process, **increases morbidity**.

Glucocorticoids are the first-line of treatment for moderate-to-severe flare-ups. However, **up to 40%** of patients do not have an adequate response.

The diagnosis of UC is difficult, time consuming and expensive. Moreover, many of the clinical biomarkers of inflammation are not specific. There are **no predictors** of response that can be applied before the beginning of corticoids treatment.



## SOLUTION

Our project proposes to create a:

- **Biosignature to manage the non-responder corticosteroids patients with a personalized approach.**

A new resolutive method to discern responder patients from non-responder patients, **previous to the beginning of the treatment**.

Consisting in the identification of a set of **circulating biomarkers** that correlates with the ulcerative colitis disease and are indicative of **patient's responsiveness** to corticosteroid treatment.



## KEY ADVANTATGES

- Easily accessible: from blood sample
- Tool to allow disease confirmation and improve clinical patient stratification
- Tool to improve treatment management
- Predictive and personalized
- 100% accuracy and 90% general capability predictive potential (in combination with clinical plasma/ urinary routine analysis)

## CONTACT US!

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