

Factsheet



FULL TITLE Personalised blueprint of intestinal health

PROGRAMME Horizon Europe / HORIZON-HLTH-2022-STAYHLTH-02

CONTRACT NUMBER 101095470

ABSTRACT miGut-Health aims to develop a personalized blueprint of intestinal health to predict and prevent inflammatory bowel disease (IBD). The overall goal is to deliver interdisciplinary solutions (molecular, nutritional, eHealth and patient engagement/empowerment level) for health promotion and disease prevention that would enable active patient engagement in health and self-care management.

Taking on this mission, miGut-Health pursues the following strategic goals:

- To integrate state-of-the-art omics (molecular, clinical, nutrition, social and environmental) for identifying actionable biomarkers, risk and health-promoting factors linked to health-to-disease transition in the general population, IBD high-risk persons, and as IBD patients.
- To perform systems-level analyses of chronic inflammation by applying integrative models from omics and clinical data to predict risk for health-to-disease transition in IBD.
- To perform a proof-of-concept controlled clinical trial studying a nutrient elimination diet (here: gluten-free) and its impact on intestinal inflammation in IBD patients and high-risk individuals.
- To exploit the impact of microbiome-derived diet-associated metabolites on gut inflammation reversion and restoration of barrier integrity and function using an innovative co-culture system of primary human intestinal organoids and sorted immune cell subsets.
- To develop and apply novel technologies (sensors, mobile apps) to dynamically monitor individual nutrition as well as physical activity and principal health status.
- To implement a patient-centred approach for personalized health and self-care engagement targeted at IBD patients, individuals at risk for IBD and the general population, as well as tools for healthcare professionals.

DURATION 48 months (01/01/2023 – 31/12/2026)

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