Research Axis 3: Diagnosis and therapeutic tools

Development of diagnostic tools and Development of therapeutic tools. This research axis aims to identify biomarkers and develop specific inhibitors targeting the bacteria-cell interaction.

**Development of diagnostic tools.**

- Molecular detection of AIEC bacteria
- Search for biomarkers to identify AIEC-colonized CD patients
- Predictive diagnosis of post-operative recurrence in CD patients
- Colibactin-producing E. coli as a pronostic marker in CRC

**Development of therapeutic tools**

- Impact of physical activity on microbiota composition in chronic diseases
- Inhibition of type 1 pili-CEACAM6 interaction
- Antagonist effects of Probiotics against pathogenic E. coli
- Eradication of AIEC using antibiotherapy strategies
- Inhibition of the genotoxic action of the pks genomic island
- Curcumin as a complementary therapeutic strategy: impact on the intestinal microbiota
Research thematics

Research axis 1: *e. coli* and intestinal inflammation

Research axis 2: *e. coli* and colorectal cancer

Research axis 3: diagnosis and therapeutic tools