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**

https://m2ish.uca.fr/navigation/research/research-thematics/research-axis-3-diagnosis-and-therapeutic-tools