GOAL: To study the effect of diet in disease prevention through the identification and monitoring of new biomarkers of food intake and biomarkers of food effect & disease risk, by means of untargeted and targeted metabolomics strategies

Research Lines

- **DIETARY Biomarkers**
  - Food Composition Tables to Estimate the Dietary Intake of Bioactive Phytochemical Components

- **NUTRITIONAL Biomarkers**
  - BIOLOGICAL ACTIVITY of Phytochemicals on:
    - Endothelial Function
    - Inflammation
    - Oxidative Stress
    - Insulin Resistance
    - Adiposity & Metabolism

**Capacities**

- Development of Humans Intervention Studies & Clinical Trials in Hospitals
- Diet Analysis & Estimation of Phytochemical Intake
- Design & Implementation of Metabolomics Analysis Protocol
- High-Throughput Food & Biological Samples Analysis
- Bioinformatics & Biostatistical Tools: Computational-Assisted Biomarkers Identification & Biological Interpretation

Recent Publications:


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High-Throughput Transversal Technologies - Metabolomics Platform -

- UHPLC-DAD/ESI-QqQ MS
  - Targeted Metabolic Profiling
- UHPLC -ESI-q-ToF MS
  - LC-MS-Driven Untargeted Metabolomics Analysis
- UHPLC-LTQ-Orbitrap MS
  - MS^n Fragmentations & Compounds Identification
- ¹H-NMR
  - NMR-Driven Untargeted Metabolomics Analysis
- LTQ-FT Ultra

Recent Publications: