


Capacities

Group Capacities: [1]

- Development of human intervention studies & clinical trials in hospitals
- Diet analysis & estimation of phytochemical intake
- Design & implementation of metabolomics analysis protocol
- High-throughput food & biological sample analysis
- Bioinformatics & biostatistical tools: computational-assisted biomarkers identification & biological interpretation  [2]

Transversal technologies: [3]

MASS SPECTROMETRY PLATFORM for metabolomic analysis of biomarkers and metabolic profiles:

- Targeted metabolomic analysis conducted by:
 - LC-MS/MS triple quadrupole for targeted detection and quantification of biomarkers of intake and health by MRM: UHPLC-QqQ-MS/MS (API 3000)
 - High sensitivity QTRAP Technology for targeted detection and quantification of biomarkers of intake and health with capacity for producing MS³ fragmentation (API 4000, API 6500)
- Non-targeted metabolomic analysis by LC-MS: HPLC-ESI-Q-ToF-MS (QSTAR Elite)
- Identification/confirmation of potential biomarkers using MSⁿ fragmentations: UHPLC-LTQ-FT-Orbitrap MS (LTQ Orbitrap Velos). BIOMARKER PANEL (metabolite groups up to 600 validated biomarkers).

NUCLEAR MAGNETIC RESONANCE PLATFORM for global analysis of metabolic profile:

- NMR-driven metabolomics target analysis: Varian Inova 500 MHz Bruker Avance III 600 MHz
- Identification and quantification of a validated biomarkers panel in biological samples (from 70/80 metabolites)

Source URL: <http://www.nutrimetabolomics.com/capacidades>

Links:

[1] <http://www.nutrimetabolomics.com/capacidades/grupo>

[2] <http://www.nutrimetabolomics.com/lineas/phenolexplorer>

[3] <http://nutrimetabolomics.com/en/node/269>

