



FQM-297.
Environmental,
Biochemical and
Foodstuffs Analytical
Control Research Group

Research Lines

- **Applications in Food Metabolomics (mostly, but not exclusively, focusing on olive tree derived matrices and avocado):**
 - Characterization and authentication of food and plant extracts.
 - Evaluation of agro-technological parameters.
 - Selective isolation of relevant compounds to test (bio)activity.
 - Bioavailability studies / Simulated digestion.
- **Applications in Optical Sensors and Nanomaterials:**
 - Smart materials for selective extraction and optical sensing (mostly MIPs, polymer particles and non-woven mats).
 - Implementation of telecommunication tools to amplify the sensitivity and selectivity of optical measurements.
 - Incorporation of luminescent properties in materials for theragnostic.
 - Smart materials and (bio)sensors for microbioreactors.