Dr. Francisco A. Tomás Barberán

He is interested in the role of phenolic phytochemicals on food quality and human health. His current research aims to the identification of those food constituents that provide health benefits, the mechanisms by which they act, and the effect of genetic, agronomic, and processing factors on these metabolites. The bioavailability and metabolism of these phenolic compounds are essential for their efficacy. Interactions of phenolics with gut microbiota modulate their absorption and health effects.

RESEARCH LINES

- Evaluation of the effect of different factors (agronomic, genetic, and technological) on the phenolic phytochemicals content, bioavailability, and biological activity
- Development of functional ingredients and foods based on bioactive and bioavailable polyphenols
- Polyphenols biological activity evaluation; in vitro (cell cultures) and in vivo (animal models and clinical studies)
- Polyphenols bioavailability and metabolism
- Effect of polyphenols and their metabolites on human gene expression