

Dr. Elena Ibáñez



Dr. Elena Ibáñez is a senior researcher at the Institute of Industrial Fermentations (IFI), CSIC, Madrid, Spain.

Elena received her Masters Degree in Chemistry in 1989 at the IQS (Institut Quimic de Sarria) and her PhD in Chemistry in 1993 working in the development of new columns for Supercritical fluid chromatography to analyze lipid soluble vitamins. She worked for one year as a postdoctoral scientist at Brigham Young University under the supervision of Professor Milton L. Lee (1994) and another year at the University of California, Davis with Professor David S. Reid and Richard A. Bernhard.

She began her position as senior research scientist at IFI in 2001. She has received the Archer Daniels Midland/Protein & Co-Products Division Award in the category of engineering/technology awarded by the American Oil Chemists Society, USA (2001). She has authored more than 100 scientific papers and since 1989 has participated in 34 different R+D projects (1 supported by the European Union, 3 co-operations between Spanish Institutions and European or American Institutions, 16 by Spanish Institutions and 14 by Private Companies). In 4 of them she has participated as Principal Researcher.

Elena is also Associate Professor at the University Autonoma of Madrid, where she has taught graduate and PhD courses since 1997. She has co-directed four Doctoral Theses and at present is directing three more, all of them related to the use of compressed fluids for the extraction of high value added compounds from natural sources such as plants and microalgae.

At present, her research lines include:

1. Design of operative conditions for sub- and supercritical processes to obtain functional ingredients (with antioxidant or antimicrobial properties) useful for the food industry. The main goal is the development of environmentally friendly processes to extract such ingredients from natural sources such as aromatic plants, by products of the olive oil industry, microalgae, etc.
2. Development and application of new advanced analytical techniques for products and process control (based on techniques such as SFE/SFC, SFE/GC, SPME/GC, HS/PTV/GC, GC/MS, LC/MS, LC/DAD, CE/DAD)

Elena is the Secretary of the Spanish Compressed Fluids Technology Association ([Flucomp](#)) and the Spanish Delegate in the European Union for COST projects in the Domain of Food and Agriculture.