

SHORT CV  
Dr. Maria Fiorella Mazzeo

**-1998-**Chemistry Degree, University of Salerno, discussing a thesis on structural characterization of disulphide-bonds containing proteins by mass spectrometry.

**-1998-2003-**PhD in Biological Chemistry and Molecular Biology, University of Naples "Federico II", discussing a dissertation on new mass spectrometric methodologies for structural characterization of proteins. During the PhD, visiting fellow at the Biological Mass Spectrometry Laboratory, Department of Biochemistry, Imperial College of Science, Technology and Medicine London for training in orthogonal quadrupole-time of flight tandem mass spectrometry and interpretation of MS/MS spectra.

**-2003-2007-**Post-doct at the Proteomics and Biomolecular Mass Spectrometry Center of the Institute of Food Sciences, National Council of Research-CNR, Avellino. Major focus of research projects were i) proteomic studies on cell lines of breast cancer, ii) rapid identification of intact bacteria by MALDI-TOF mass spectrometry, iii) development of molecular profiling strategies based on MALDI-TOF mass spectrometry for food analysis.

**-2007- 2011-**Tenure-track investigator at the Institute of Food Sciences-CNR-Avellino, involved in the research projects: "Nanotechnologies for Molecular Classification of Complex Diseases" and "Agro-food, Environment and Health".

**-2011-nowdays-**permanent researcher at the Institute of Food Sciences, CNR-Avellino.

Dr. Mazzeo has a consolidate expertise in biochemistry, mass spectrometry and structural and functional proteomics. Her research interests encompass:

- the study of molecular basis of probiotics mode of action
- the investigation of stress response mechanisms in technological and pathogenic bacteria
- the elucidation of stress response mechanisms and host-pathogen interplay in plants
- proteomics applied to food quality and safety
- development and application of innovative "molecular profiling" strategy based on MALDI-TOF-MS protein analysis to define biomarkers for authentication of fresh and processed food
- structural analysis by mass spectrometry of peptides and proteins, in particular of gliadin peptides involved in celiac disease or target of technological process for wheat detoxification.

She is co-author of 25 original articles on peer-reviewed journals (H-index 2014=14 [according to Google Scholar]) with a total impact factor > 80 (ISI), book chapters and peer reviewer for Journal of Agricultural and Food Chemistry and Food Research International.

