

Professional Summary



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Emilia received her BS in Chemistry from the National Autonomous University of México (UNAM); her MS in Fruit Processing from the National Fruit School (CONAFRUT); and studied a PhD at the Institute Politecnico. She started her career as a food irradiation researcher with the Mexican National Institute for Nuclear Research (ININ). She led several national and international projects, primarily related to the study and promotion of irradiation as a phytosanitary treatment. She was responsible for research that resulted in irradiation doses that have been globally adopted for fruit pests. She worked with many different sectors and agencies to achieve a regulatory framework that allowed for the commercialization of irradiation as a food treatment, making Mexico one of the principal countries using this technology. She also represented Mexico for more than 10 years in the International Consultative Group for Food Irradiation with the International Atomic Energy Agency.

Emilia has been an expert in working groups organized under the aegis of the North American Plant Protection Organization (NAPPO) and the International Plant Protection Convention (IPPC) for the elaboration of regional and international standards for the use of irradiation as a phytosanitary treatment. She did research on free radicals with the Institute Nacional de Sanita in Rome, Italy before moving to United States in 2003. She has worked independently as a consultant to government and business, assisting in the application of irradiation technology and as a lecturer in international meetings and workshops.

Emilia has more than 30 technical reports and she has authored and co-authored 34 publications in scientific journals. She led the establishment of the International Database on Commodity Tolerance (IDCT) as an expert consultant for the International Atomic Energy Agency and currently works as a Senior Research Scholar with the Center for Integrated Pest Management (CIPM) at North Carolina State University responsible for a United State Department of Agricultural (USDA) project that aims to maximize the potential for irradiation as a phytosanitary treatment.

