



## Plant Biology

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Society of Plant Physiology

XVI Spanish Portuguese  
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I am Bachelor (1978) and PhD (1984) in Biological Sciences from the University of Granada (UGR), in both cases with Special UGR Award. I was a postdoctoral researcher (October 1985- July 1987) at the Dept. of Plant Physiology and Plant Biochemistry in the University of Konstanz (Germany). Staff Scientist (15-2-1988) and Scientific Researcher (2-6-2006) in the Department of Biochemistry, Cell and Molecular Biology of Plants in the Estación Experimental del Zaidín (EEZ, CSIC ). I am a Project leader, being my research line Plant Phenotyping using Imaging Techniques. Since February 2014, I am Director of the EEZ. My research line was focused in the impact of abiotic (herbicides and heavy metal) and, more recently, biotic (weeds, virus, bacteria, fungi) stress factors on photosynthesis and associated processes. The main goal is the presymptomatic and early diagnosis of biotic and abiotic stress by mean of imaging techniques; our group is a pioneer in this topic in Spain. I have been main Researcher (IP) of 6 projects from the National Plan from Scientific and Technological Research and Innovation (PB94-0116, BIO98 0860 CO2 02, BIO2001-1937-C02-02, BIO2004-04968-C02-02, BIO2007-67874-C02-02 y AGL2008-00214) and also from 13 bi or multilateral projects (CSIC, Acciones Integradas, NATO), with countries as Hungary, Czech Republic, Bulgaria, Germany and Morocco. I got an Hungarian Award for international cooperation, the Medal Gabor Farkas. Using imaging techniques as thermography or fluorescence (Chlorophyll or blue-green fluorescence) I have participated in projects about multidrug resistant transporters (MDR) in plant infections CVI03475 Junta de Andalucía, I.P. MT Gallegos) or in the phenotyping of Arabidopsis mutants in 1) the sugar synthesis pathway (BIO2012-33292; I.P. M Sahrawy) or 2) in the stomata development (BIO2012-33952;I.P. C Fenoll). In 2014, I got a grant for the development of the technological basis for the detection of diseases and stresses in different crops (CSIC-MINECO Project RECUPERA 2020/ 20134R060). Currently, I am IP of a project (AGR 370, AGROIMAGEN), financially supported by the Andalusian Government, for the identification of disease signatures in Andalusian crops by mean of imaging techniques. I have supervised 7 PhD Thesis: 3 with European Doctorate Mention and one with UGR Special Award.