



2019
Plant Biology

XXIII Meeting of the Spanish Society of Plant Physiology | XVI Spanish Portuguese Congress of Plant Physiology

Pamplona
June 26-28, 2019



During my PhD thesis (Biological Sciences, University of Seville, Spain), I obtained tobacco plants resistant to fungal pathogens by expressing a chitinase of *Trichoderma harzianum*, a biocontrol agent. During that time I gained training in the passionate world of the plant-pathogen interactions, then I moved to Paris to do a 6-years postdoc stay in gene regulation using filamentous fungi as model organisms. There, I deepened in the eukaryotic gene regulation by chromatin conformation and the interdependence between transcription factors and chromatin remodeling. After that, I returned to Seville, Spain, with a Marie Curie and an Andalusian Return contract, where I recently obtained a permanent position in the CSIC. Nowadays, I am Distinguished Researcher (ID) at the Institute of Plant Biochemistry and Photosynthesis (CSIC- University of Seville) Seville, Spain. In the last decade in the IBVF, my interests have evolved from basic and biotechnological aspects of the plant-pathogen interaction in relation to cysteine towards the signaling mechanisms mediated by cysteine and related molecules. Indeed, we have described that besides its toxicity, cyanide has a regulatory role in root hair development and plant-pathogen response. The elucidation of the mechanisms underlying this regulation and the role of cyanide as a gasotransmitter are the objectives of my current research.

.

.