



# Plant Biology

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Society of Plant Physiology

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No organism lives in an exclusive niche. All organisms form part of a large web of life. My main research interest is to understand plant adaptation to the changing environment at a molecular level. It is astonishing how plants use only few signalling molecules to integrate so many endogenous and exogenous inputs to promote the best adaptive responses. Phytohormones play a crucial role in this complex signalling network, regulating plant communication with the environment and other organisms - plants evolved cooperative as well as defensive strategies to interact with neighbor organisms. Therefore, my research focuses on analyzing this hormone-regulated plant-signalling network at a molecular level, specifically studying the jasmonic acid signalling pathway. I hold a PhD in Plant Molecular Biology from The University of Edinburgh, UK (Gary Loake's lab) where I studied plant defence mediated by the phytohormone salicylic acid. The main achievement of my postdoctoral research as EMBO fellow is the identification of the JAZ proteins, a new family of repressor of jasmonate signalling in plants, and their function (Chini et al., Nature 2007). As Ramon y Cajal fellow, I deepened on jasmonate signalling pathway, integrating methodologies between biology and chemistry (Chini et al., Nat Chem Biol 2018). Since 2016, I am a PI at the CNB-CSIC.