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Luis Valledor obtained his Ph.D. in the field of Plant Biology from the University of Oviedo in 2009 under the supervision of Drs Rodriguez, Cañal, and Jorrín obtaining a deep background in plant proteomics and epigenetics after analysing pine needle developmental processes. Dr. Valledor was then awarded with a Marie Curie-IEF grant to join Prof. Weckwerth's lab at the University of Vienna. There, he developed new proteomic and metabolomic-based approaches for studying abiotic stress responses pine trees and microalgae employing a systems biology approach. After working several years in the Academy of Sciences of the Czech Republic he returned to the University of Oviedo where currently he is a Ramón y Cajal fellow. His main research interest is focused on exploiting natural variation for a better understanding of how pine trees response and adapt to different climate related abiotic stresses, also employing microalgae as simple model. To this end, novel workflows and analytical methods have been developed aiming to integrate environment, natural variation, ecophysiology, and omics. The goal of these studies is the employ of "population" proteomics, metabolomics and epigenetics to deepen in our knowledge of stress biology. Understanding how microalgae respond to abiotic stresses, particularly SnRK/CKIN family and how this pathway has evolved across evolution, is also an important aspect of the research at his lab.