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Assistant Professor of Plant Physiology at the Department of Organisms and Systems Biology, University of Oviedo, Spain. I have been, for three decades, working with ferns, and dealing with basic and applied topics such as micropropagation, and especially the last years, I moved forward reproduction by sexual or asexual means. Presently, my interest is focussed on deciphering the molecular mechanisms involved on apogamy under transcriptomic and proteomic approaches, in close relation with the Ueli Grossniklaus's lab at the University of Zurich. Aware in liquid and gas-chromatography coupled to mass spectrometry, to perform phytohormone analyses. Academic Secretary from IX-2011 to III-2017, at the Biology Faculty of Oviedo University.

### **“Approach to apomixis by culturing the fern gametophyte”**

The gametophyte of ferns is a cellular monolayer structure, whose more important function is to form the gametes, responsible of sexual fusion that will lead to sporophyte generation. In most cases, as sporophyte develops, the gametophyte is about disappearing, reflecting to have a role purely involved on reproduction. Omics technologies based on comprehensive biochemical and molecular characterizations of an organism, tissue or cell type, and next-generation omics approaches, facilitate the analyses of non-model organisms owing to the rapid generation of large amounts of *de novo* systems biology data, making them attractive options for studying plant development and evolution.