

## Cellular analysis of the argan (*Argania spinosa* L.) seed germinated *in vitro*.

Mariam Allach, Mohammed M'rani-Alaoui, Maria Isabel Rodríguez-García and  
Juan de Dios Alché\*

Department of Biochemistry, Cell and Molecular Biology of Plants.  
Estación Experimental del Zaidín. Consejo Superior de Investigaciones Científicas  
(CSIC). Profesor Albareda 1, E-18008 Granada, Spain.  
[\\*juandedios.alche@eez.csic.es](mailto:juandedios.alche@eez.csic.es)

*In vitro* culture of seeds is an efficient alternative for the propagation of this plant endangered of extinction. In this work, two different methods for the culture of dissected seeds have been assayed. The methods used yielded percentages of germination of 34.4% y 66.5%, respectively. After optimizing the protocols, histological analysis throughout the process have been carried out by Light Microscopy, in order to determine the histological changes taking place mainly in the cotyledon and the root.