

**Workshop 2**  
**Poster presentation**  
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### **New data concerning pteridophytic spore conservation in germplasm banks**

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Today pteridophyte spore conservation requires deep studies in order to explain the causes of viability loss, as well as to establish the optimal storage conditions. The Germplasm Bank of the Botanical Garden of Valencia University is working to approach it.

We report the effect of six months of storage at ambient temperature, 4°C and -25°C on *Ceterach officinarum* Willd. and *Polystichum lonchitis* (L.) Roth., over the viability of the spores and the further development of the gametophyte. Moreover we reported the response to desiccation and the repeated freezing and defrost effect on the stored samples. We can observe that successive freezing and defrost cycles decrease spore viability and have a negative influence over the subsequent development.

We also study the relation of a loss of solutes with a diminish of spore viability on *Cyrtomium falcatum* (Lf.) C. Presl. The amount of soluble sugar and free amino acids present in spores of different age and conservation conditions were analyzed.

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