

**Workshop 2**

**Poster presentation**

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**HABITAT SUITABILITY AND POPULATION DISTRIBUTION ANALYSIS OF  
*EUPHORBIA NEVADENSIS* BOISS. & REUTER SUBSP. *NEVADENSIS* IN THE  
ALICANTE PROVINCE USING MULTI-CRITERIA EVALUATION**

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Multi-criteria evaluation (MCE) techniques are numerical algorithms that define the suitability of a particular solution on the basis of the input criteria and weights, together with some mathematical or logical means of determining trade-offs. The main goal of the study was the selection of core areas of habitat for the Valencian Plant Micro-Reserve (PMR) network. We analysed the habitat suitability and population distribution of *Euphorbia nevadensis* ssp. *nevadensis*, in the Alicante Province, Spain, using GIS and outranking MCE. This species is included in Annexe IV list of the Directive 92/43/EEC and Spanish RD 97/95. The distribution pattern was analysed to relate the physical parameters (altitude, land cover, aspect, geology, trail network) with the presence/absence and density of the species. The results showed that the total area occupancy is 0.1 ha, meanwhile the habitat suitability is of 1.69 ha. This work was supported by the Conselleria de Territorio y Vivienda (Generalitat Valenciana).