

**Workshop 3**  
**Poster presentation**  
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**PLANT DIVERSITY CONSERVATION VERSUS AGRICULTURAL AND TOURIST DEVELOPMENT IN ARID ECOSYSTEMS. THE HABITAT OF *LINARIA NIGRICANS* IN SE IBERIAN PENINSULA (SW EUROPE)**

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**Abstract**

The mediterranean arid ecosystems of south-eastern of the Iberian Peninsula contain an exceptional concentration of species (high levels of biodiversity) and high rate of endemism. Also, landscapes have been evolved with traditional pastoral and agricultural uses. However, recently have been modified by several exploitations and are in great danger of destruction. *Linaria nigricans* Lange is a narrow endemism from SE Iberian Peninsula that distinguishes specific habitats, and had been catalogued Vulnerable (VU), but after our study is evaluated like Endangered (EN). We have study the fragmentation of the habitats of *Linaria nigricans*, based on collections of aerial photographs taken in 1957, 1977, 1985, 1994 and 1998, together with our own field work in 2004 (GPS and GIS). We have monitoring the long term changes in the populations and evaluate the impact of tourist (buildings, management of beaches) and the agricultural development (greenhouses and olive crops), that have caused fragmentation and reduction of natural habitats. The specie and its habitats deterioration call for the application of urgent measures for their conservation and planning management programs.

Key words: biodiversity, destruction, fragmentation, mediterranean arid ecosystems, preservation.