



## Remarks on the nomenclatural type of *Cistus organifolius* Lamarck (Cistaceae)

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### Introduction

The genus *Helianthemum* Miller (1754: without page) (Cistaceae Jussieu [1789: 294]) is a monophyletic group limited to the Old World (Arrington & Kubitzki 2003, Guzmán & Vargas 2009, Sorrie 2011). It includes about 110 species and subspecies of small herbs or subshrubs, which are distributed from Macaronesia to C Asia, including Europe and North Africa, and mainly occurring in the W Mediterranean, particularly in the Iberian Peninsula (Greuter *et al.* 1984, López González 1993, Arrington & Kubitzki 2003, Parejo-Farnés *et al.* 2013).

Some taxa firstly described under *Cistus* Linnaeus (1753: 523) but currently included in *Helianthemum* are taxonomically very complex, and have already been typified in many cases (see Burt & Lewis 1949, Jafri 1977, López González 1992). Among them, the name *Cistus organifolius* Lamarck (1786: 21) is the basionym for the currently accepted *Helianthemum marifolium* (Linnaeus 1753: 526) Miller (1768: n. 24) subsp. *organifolium* (Lam.) López González (1992: 54). In establishing the new combination, López González (1992) ambiguously indicates at least two herbarium sheets in P (acronym according to Thiers 2015) as type of this name. This material truly belongs to Lamarck's original material, but the lectotype must be narrowed to a single one specimen according to McNeill *et al.* (2012).

Continuing our nomenclatural study of the Cistaceae names (Ferrer-Gallego & Laguna 2012, Ferrer-Gallego *et al.* 2013a, 2013b, Ferrer-Gallego & Boisset 2015), the lectotypification of the name *Cistus organifolius* here proposed is based on the protologue and consultation of Lamarck's original material at P, concretely in the Lamarck herbarium and Jussieu herbarium. Lamarck's and Jussieu's handwritings were identified by comparison with published samples (Burdet 1976).

### Typification of the name

López González (1992) indicated as *typus* of the name: “*Cistus organifolius*. enc. [Herb. Lamarck; Herb. Jussieu, P]”. Besides, he adds that “*El material de herbario de Lamarck está representado por una muestra estéril, que se puede identificar, sin embargo, con pocas dudas, con el material estudiado de la localidad clásica*” [The material in the Lamarck herbarium is represented by a sterile specimen, which can be identified, however, with little doubt, with the material studied from the *locus classicus*]. However, this designation must be further narrowed to a single specimen (Art. 9.2 of the ICN, McNeill *et al.* 2012).

The protologue of *Cistus organifolius* (Lamarck 1786), includes a short Latin description: “*Cistus suffruticosus exstipulatus, foliis oppositis petiolatis ovatis utriusque pilosis*. N. [Nobis]”, with two synonyms. The former is “*Helianthemum origani foliis* Herb. Juss. & Isn.”, evidently based on material from the herbarium of Antoine Laurent de Jussieu and Antoine-Tristan Danty d'Isnard. The latter synonym is “*An Cistus incanus, majoranae folio, Hispanicus*” from Barrelier (1714: ic. 313). The cited plate only represents vegetative characters, is original material and candidates as lectotype of this name. Lamarck (1786) adds “*Cette plante croît en Espagne, près du Cap St. Vicent; nous n'en connoissons point les fleurs* (v. s.)” [This plant grows in Spain, near Cape Sant Vicent; we do not know the flowers]. The protologue includes also an extensive description in French.

Among the original material of *Cistus organifolius*, one herbarium sheet has been found in the Lamarck herbarium at P (P-LA), with barcode P00286726 (image available at <https://science.mnhn.fr/institution/mnhn/collection/p/item/p00286726?listIndex=108&listCount=23805>). This sheet bears a fragment with leaves, but no flowers, and an original label handwritten by Lamarck: “*Cistus organifolius*. enc.”, where “enc.” alludes to the *Encyclopédie Méthodique*. This specimen is therefore suitable for typification.