

## WHAT IS THE TYPE OF THE NAME *SCILLA MARITIMA*?

**P. Pablo FERRER-GALLEGO**

Servicio de Vida Silvestre y Red Natura 2000, Centro para la Investigación y Experimentación Forestal (CIEF), Generalitat Valenciana. Avda. Comarques del País Valencià 114. 46930-Quart de Poblet, Valencia. flora.cief@gva.es

**ABSTRACT:** The lectotype of the name *Scilla maritima* L. was designated by Ferrer-Gallego in 2013 and is the specimen, herbarium Adriaan van Royen No. 913.62-327 (L, barcode L 0052807) preserved in the van Royen's collection at Leiden. The “typification” proposed by Mario Martínez-Azorín, Manuel B. Crespo and M. Ángeles Alonso-Vargas in 2022 is superfluous and ineffective according to the International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code). **Keywords:** *Charybdis maritima*; *Drimia maritima*; epitype; lectotype; nomenclature; Linnaeus; *Squilla maritima*; typification; *Urginea maritima*.

**RESUMEN:** ¿Cuál es el tipo del nombre *Scilla maritima*? El lectotipo del nombre *Scilla maritima* L. fue designado por Ferrer-Gallego en 2013 a partir de un espécimen conservado en herbario Adriaan van Royen nº 913.62-327 (L, código de barras L 0052807) en la colección de van Royen en Leiden. La tipificación recientemente propuesta por M. Martínez-Azorín, M.B. Crespo y M.Á. Alonso-Vargas en 2022 es superflua e inefectiva de acuerdo al Código Internacional de Nomenclatura para algas, hongos, y plantas (Código de Shenzhen). **Palabras clave:** *Charybdis maritima*; *Drimia maritima*; epítipo; lectotipo; nomenclatura; Linneo; *Squilla maritima*; tipificación; *Urginea maritima*.

### DISCUSSION

The species *Scilla maritima* L. was described by LINNAEUS (1753: 308). The nomenclatural type of the name was designated by FERRER-GALLEG (2013: 40) from a specimen preserved in the Adriaan van Royen herbarium at Leiden (herb. Adriaan van Royen No. 913.62-327, with barcode L 0052807). The specimen L 0052807 includes a flowering scape and five leaves. This lectotype designation has been accepted by JARVIS (2016: available at: <https://www.nhm.ac.uk/our-science/data/linnaean-typification/>).

Together Linnaeus and Adriaan van Royen botanized in the Botanic Gardens of Leiden and Amsterdam. The specimen L 0052807 was perhaps collected from plants growing in the Leiden Botanical Garden.

Many sheets in A. van Royen's Herbarium have the plants mounted in the pots and other paraphernalia that were customary in mid-18th Century Dutch collections (as in the sheet L 0052807). On these sheets the text that was used for the Van Royen's *Florae Leydensis Prodromus* (1740) is written and subsequently cited more or less verbatim by Linnaeus in the *Species Plantarum* (see LINNAEUS, 1753). By consequence the Herbarium contains a great number of types of Linnean names and is therefore one of the major herbaria to be consulted in solving problems in nomenclature and typification. In all, a close social and scientific relationship between Linnaeus and Adriaan van Royen and his collections is evident. This herbarium is one of the few not his own that Linnaeus could study extensively over 3 years of time (see THIJSS & VELDKAMP, 2003).

Recently, MARTÍNEZ-AZORÍN & al. (2022: 5-6) mentioned that the lectotype of *Scilla maritima* designated by FERRER-GALLEG (2013) is problematic and should be disregarded because leaves and flowers in this species are not coetaneous. According these authors: “It is well-known that taxa in the *Scilla maritima* group are hysteranthous and hence leaves and flowering scapes are never found together

in a single population or plant as it apparently occurs in the voucher L barcode 0052807”. In addition, the authors mentioned that “This implies that the selected “lectotype” includes evidently two specimens collected at different times (leaves and the flowering scape). According to Art. 8.2 of the ICN, the voucher L 0052807 cannot therefore be regarded as lectotype of *S. maritima* as designated by Ferrer-Gallego (2013) and should be superseded”.

Consequently, MARTÍNEZ-AZORÍN & al. (2022) designated as the “lectotype” of *Scilla maritima* an illustration published by CLUSIUS (1601: 171) “*Scillae hispanicae flos & semen*” [only the illustration of the bulb with a flowering scape], and also an “epitype” from a material collected near Lisbon (Portugal), with barcode P02166423 (image available at <https://science.mnhn.fr/institution/mnhn/collection/p/item/p02166423>), with several duplicates (“isolectotypes”) at P (with barcodes P02166260, 2166417, 1811235, and 1811236).

Unfortunately, at this point there is a not very logical situation. MARTÍNEZ-AZORÍN & al. (2022) indicated that “among the three illustrations in Clusius (l.c.), that of the flowering raceme is designated here as lectotype for *Scilla maritima*, since it shows diagnostic characters allowing separation from other taxa in the aggregate”. However, although the illustration “shows diagnostic characters allowing separation from other taxa in the aggregate” the authors designated an epitype, contrary to what is indicated by Art. 9.9 and recommended by Rec. 9B.2 of the ICN (“Authors designating an epitype should state in what way the holotype, lectotype, neotype, or all original material is ambiguous such that epitypification is necessary”) (see TURLAND & al., 2018; LENDEMER, 2000a; see also LENDEMER, 2000b).

Regardless of “epitype” designation, the “typification” (“lectotypification” and “epitypification”) proposed by MARTÍNEZ-AZORÍN & al. (2022) is superfluous and ineffective because the statement “in the *Scilla maritima* group [...] leaves and flowering scapes are never found together in a single population or plant” is not true.

When growing plants of this species, we know that it is possible for leaves and flowering scapes to coexist. It

is very unlikely that this phenomenon will be observed in the same plant, although examples are not lacking (see <http://herbarivirtual.uib.es/ca/general/344/especie/drimia-maritima-l-stearn>; fig. 1). But it is much more likely that cultivated plants can show the coexistence of flowers with leaves (see figs. 2 and 3).

In the case of the specimen lectotype L 0052807, maybe this material is composed of parts of different plants, perhaps the leaves belong to one plant and the inflorescence to another (or all the material belongs to a single plant); although this cannot be known! If so, nothing prevent it from being treated as a single specimen under the current *Code* (see Art. 8.2 of the *ICN*).

## REFERENCES

- CLUSIUS, C. (1601). *Rariorum plantarum historia, quae accesserint, proxima pagina docebit*. Officina Platiniana, Antwerpiae.
- FERRER-GALLEGO, P.P. (2013). Los tipos nomenclaturales de *Scilla autumnalis* L. y *Urginea maritima* (L.) Baker (Liliaceae). *Lagascalia* 33: 37–42.
- JARVIS, C.E. (2016). *The Linnaean Plant Name Typification Project*. Natural History Museum, London. <https://www.nhm.ac.uk/our-science/data/linnaean-typification/>
- LENDEMER, J.C. (2000a). Epitypes are forever: Best practices for an increasingly misused nomenclatural action. *Taxon* 49(5): 849–850.
- LENDEMER, J.C. (2000b). (014) Proposal to require a statement of “demonstrable ambiguity” for epitype designation. *Taxon* 49(3): 631.
- LINNAEUS, C. (1753). *Species plantarum*. Impensis Laurentii Salvii, Holmiae [Stockholm].
- MARTÍNEZ-AZORÍN, M., M.B. CRESPO & M.A. ALONSO-VARGAS (2022). Reinstatement of *Squilla* Steinh., a priority name against the illegitimate *Charybdis* Speta (Hyacinthaceae, Urgineoideae). *Mediterr. Bot.* 43: e78272.
- THIJSE, G. & J.F. VELDKAMP (2003). *The Van Royen Herbarium*. Nat. Herbarium of the Netherlands, Leiden.
- TURLAND, N.J. & al. (Eds.) (2018). *International Code of Nomenclature for algae, fungi, and plants (Shenzhen Code) adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017*. Regnum Vegetabile 159. Glashütten: Koeltz Botanical Books. <https://doi.org/10.12705/Code.2018>

(Recibido el 5-IV-2022)  
(Aceptado el xx-xx-2022)



**Figure 1.** Image of *Squilla maritima* (L.) Steinh. (≡ *Scilla maritima*; ≡ *Urginea maritima*; ≡ *Charybdis maritima*; ≡ *Drimia maritima*) with leaves and flowers coetaneous in the plant (see that many of the flowers are still in preanthesis). Image courtesy of the the Herbari Virtual del Mediterrani Occidental, reproduced with permission (available at <http://herbarivirtual.uib.es/ca/general/344/especie/drimia-maritima-l-stearn>).

What is the type of *Scilla maritima*?



**Figure 2.** Plants of *Squilla maritima* (L.) Steinh. cultivated in the CIEF (Quart de Poblet, Valencia, Spain) with leaves and flowers together at the same time. Image: Julia Gegunde García (October 3, 2021).



**Figure 3.** Plants of *Squilla maritima* (L.) Steinh., with leaves and flowering scapes coetaneous in a single population.

## NOVEDADES EDITORIALES

### Flora Valentina, IV (Lamiaceae - Rhamnaceae)

Gonzalo Mateo Sanz, Manuel B. Crespo Villalba, Emilio Laguna  
Lumbreras

Ed. Jolube, 2021

Encuadernación tapa dura cosida, 22 x 27 cm, 362 páginas en COLOR

Fecha lanzamiento: **enero de 2022**

ISBN: 978-84-121656-9-2

PVP: 60€ + envío

**IV**

**FLORA VALENTINA**

ANGIOSPERMÆ (IV) Lamiaceæ — Rhamnaceæ

Gonzalo Mateo Sanz  
Manuel Benito Crespo Villalba  
Emilio Laguna Lumbreras



### Catálogo de la flora vascular del municipio de Zaragoza

Samuel Pyke

Monografías de Botánica Ibérica, nº 23

Encuadernación rústica fresada 17x 24 cm

180 páginas en B/N

Fecha lanzamiento: **diciembre de 2021**

ISBN: 978-84-124463-0-2

PVP: 12,50€ + envío

### La cara amable de las malas hierbas, 3<sup>a</sup> edición (2021)

Claves ilustradas para la determinación de los géneros y catálogo de especies

Alicia Cirujeda, Carlos Zaragoza, María León & Joaquín Aibar

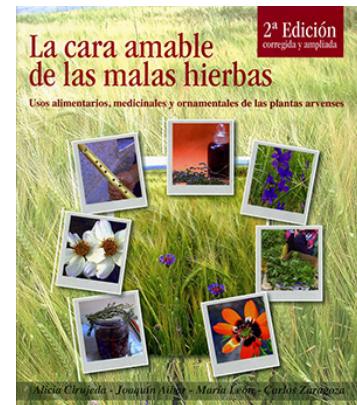
Encuadernación rústica 21 x 25 cm. 256 páginas en color

Edita: CITA-Gobierno de Aragón

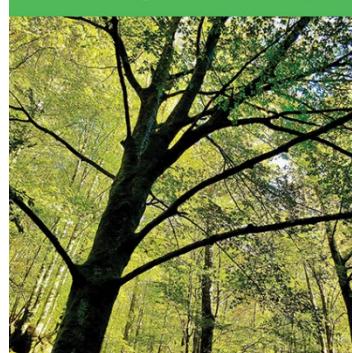
Fecha lanzamiento: **diciembre de 2021**

ISBN: 978-84-87944-57-4

PVP: 20€ + envío



### EL BOSQUE INTEGRAL



### El bosque integral

Guillermo Meaza & Emilio Laguna

Encuadernación rústica, 17 x 24 cm, 264 páginas en color

Edita: Jolube Consultor Botánico y Editor

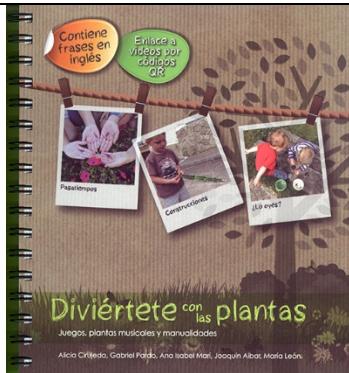
Fecha lanzamiento: **marzo de 2022**

ISBN: 978-84-124463-1-9

PVP: 22,50€ + envío

Haz tu pedido a

jolube@jolube.net



### Diviértete con las plantas. Juegos, plantas musicales y manualidades

Alicia Cirujeda, Gabriel Pardo, Ana Isabel Marí, Joaquín Aibar & María León

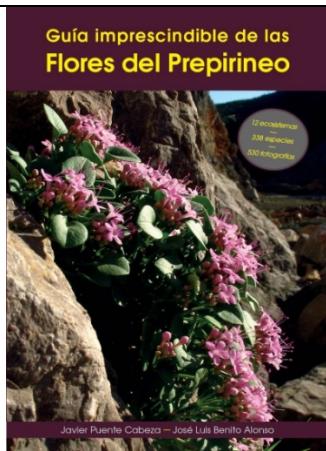
Encuadernación anillas 20 × 22 cm, 256 páginas en color

Edita: CITA-Gobierno de Aragón

Fecha lanzamiento: 2016

ISBN: 978-84-8380-335-6

PVP: 28€ + envío



### Guía imprescindible de las flores del Prepirineo

Javier PUENTE CABEZA & José Luis BENITO ALONSO

Col. Guías imprescindibles de flora, nº 3

Encuadernación rústica 17 × 24 cm

204 páginas en color con más de 530 fotografías.

Primera edición: abril de 2013

ISBN: 978-84-941996-4-6

PVP: 17,50 € + envío

## Orquídeas de la provincia de Cuenca

Guía de campo

Agustín Coronado Martínez y Eduardo Soto Pérez

Colección Guías imprescindibles de flora, 4

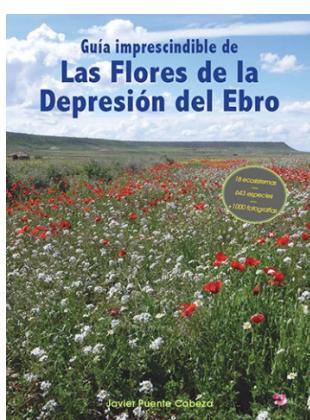
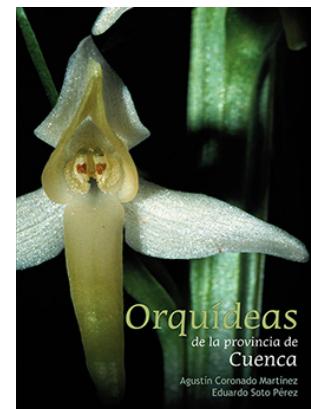
Encuadernación rústica 14,8 × 21 cm

252 páginas en COLOR

Fecha lanzamiento: mayo de 2017

ISBN: 978-84-945880-5-1

PVP: 25,95€ + envío



### Guía imprescindible de las flores de la Depresión del Ebro

Javier Puente Cabeza

Col. Guías imprescindibles de flora, nº 5

Encuadernación rústica 11 × 21,6 cm

380 páginas en COLOR

Fecha lanzamiento: julio de 2018

ISBN: 978-84-947985-3-5

PVP: 24,00€ + envío