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New lectotypification of *Cynoglossum columnae* Ten. (Boraginaceae, Cynoglossae)

Abstract

Sutorý, K.: New lectotypification of *Cynoglossum columnae* Ten. (Boraginaceae, Cynoglossae). — Fl. Medit. 35: 15-18. 2025. — ISSN: 1120-4052 printed, 2240-4538 online.

A new lectotype and epitype are selected for *Cynoglossum columnae* Ten. The lectotype previously chosen by Selvi & Cecchi (2009) is regarded as unacceptable. The name *C. columnae* published three years later by Antonino Bivona-Bernardi is a later heterotypic synonym.

Key words: Boraginaceae, Cynoglosseae, heterotypic synonym, Italy.

Article history: Received 20 November 2024; received in revised form 25 March 2025; accepted 1 April 2025; published 12 April 2025.

Cynoglossum columnae Ten. in Fl. Napol. 1 (Prodr.): XIV. 1811.

Lectotype: [illustr.] “Cynoglossa altera media fructu” in Colonna, Ekphrasis: 178, 1616 (designated here, Fig. 1).

Epitype (designated here) *Cynoglossum columnae* 3. Cent. inedit. Sicily, A. Bivona 1810. LINN-HS 256-13

Synonym: *Cynoglossum columnae* Biv., Stirp. Rar. Sicilia 2: [7], 1814.

Lectotype (designated by Cecchi & Selvi in Nat. Hist. Sci. 2: 97. 2015): [Italy, Sicily] s.d., [Bivona] (“Cynoglossum columnae nobis. Man. 2 [Bivona’s handwriting] / Habui a Cl. Bivona [Parlatore’s handwriting]”, FI 2584!)

The name *Cynoglossum columnae* Ten. was described in the prodromus portion of the first volume of Tenore’s Flora Napolitana (1811). The species described three years later under the same name by Antonino Bivona-Bernardi (1814) undoubtedly refers to the same taxon. A lectotype of Tenore’s name was designated by Selvi and Cecchi (2009: 622), who selected the specimen “in pascuis montanis, Tenore” deposited in Florence (FI). However, this type designation for Tenore’s name was later questioned in the ineffectively published “Supplementary materials” (http://pwt.pensoft.net/getfile.php?filename=oo_42064.html) by Hilger & al. (2015). They considered it “hardly appropriate as it was probably collected long after 1811, having been sent to Florence in 1844, and moreover consists of two plants in different stages of development, which likely represent two distinct gatherings”.



Fig. 1. *Cynoglossum columnae* Ten. Lectotype, Colonna, Ekphrasis: Tab. 178, 1616.

A lectotype for Bivona-Bernardi's name was also selected by Selvi and Cecchi (Cecchi & Selvi 2015: 97). The chosen specimen was collected on Sicily by Bivona-Bernardi, without a specified date, and was labelled "*Cynoglossum columnae* nobis. Man. 2". F. Parlatore included a note stating "Habui a Cl. Bivona". It is deposited in FI and is clearly an effective lectotypification of *C. columnae* Biv. However, this is not a specimen that is part of the original mate-

rial of *C. columnae* Ten. and so Cecchi & Selvi (2015) were correct in treating the names as heterotypic synonyms and Hilger & al. (2015) were incorrect in considering them to be isonyms. According Turland & al. (2019, Art. 6 Note 2) “when the same name, based on the same type, has been published independently at different times, perhaps by different authors, then only the earliest of these “isonyms” has nomenclatural status” and the selection of the lectotype for the later published name would not be necessary. Because *C. columnae* Ten. cannot be based on the same specimen as *C. columnae* Biv., the names must they be considered as heterotypic synonyms. However the lectotype selected for Tenore’s name by Selvi and Cecchi (2009) must be replaced.

The protologues of both names cite a plant described by Fabio Colonna in his Ekphrasis (Colonna 1616) and the unpublished name “*Cynoglossum cristatum* var.” (Lamarck 1786: 238). Bivona-Bernardi assigned the authorship of this name on the label (Fig. 2) to Willdenow (1797: 764). Since Tenore’s description does not provide any specific locality or specimen, the illustration cited in protologue (Colonna 1615) should be selected as lectotype. As an epitype (a specimen ... selected to serve as an interpretative type when ... the lectotype, ... cannot be identified for the purpose of the precise application of the name ... Art 9.9. Turland & al. 2019), Bivona-Bernardi’s specimen with the reference to Colonna, collected before the first use of the binomial “*columnae*” is selected. This specimen is deposited in the LINN herbarium. Importantly, the note “Cent. 3” on the selected specimen indicates that it was intended to be distributed in Bivona-Bernardi’s third exsiccate series (centurie). The content of two previous series was published by Bivona-Bernardi (1806). The selected specimen was collected four years after the publication of Bivona-Bernardi’s first two series and was intended for the third, which was never published. It is not excluded that some specimen from this “third series” could also been in Tenore’s possession.

In the protologue of Bivona-Bernardi’s synonym (Bivona-Bernardi 1814) two collection sites are mentioned : “in Monte Cuccio Panormum prope” and in the Smith’s collection as “In Appenninis [sic !] Montibus”. We may assume that no other localities of this species were known and available in the years of Tenore’s (1811) and Bivona-Bernardi’s publications (1814), as they would certainly have mentioned them. Both specimens are present in the Smith Herbarium (LINN-SM). The specimen from Sicily was selected as a lectotype due to its better

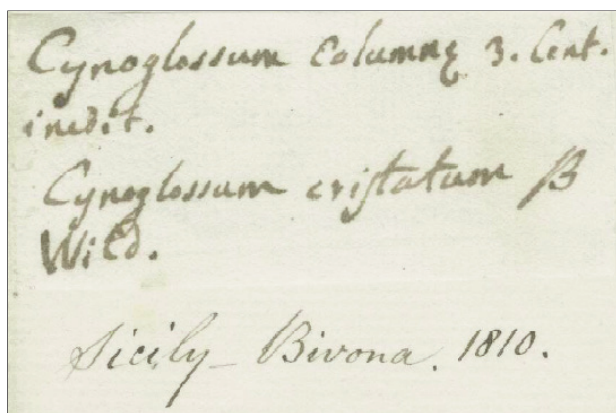


Fig. 2. Label of the epitype specimen *Cynoglossum columnae* Ten. LINN-HS 256-13.

developed fruits, which are characteristic of this species, and because the accompanying text corresponds well with the protologue. The text is written by Bivona-Bernardi, while the locality (Sicily) and date of collection or delivery (1810) are written in English, likely by Smith. The second specimen from the Apennines, mentioned in protologue, is also deposited in the Smith Herbarium (LINN-HS 256.14.). It was collected on 29 April 1787 on “Hills behind the inn at Valcimara [Valcimarra ?], foot of the Apennines [sic!]” with reference to “*C. columnae* Bivon. Cent. 3”. The Bivona’s name was added to the locality later in pencil (locality itself is in ink) and with question mark. The question mark would not be present if the specimen had been seen by Tenore or Bivona-Bernardi. <https://linnean-online.org/30038/#?s=0&cv=0&z=0.1809%2C1.1495%2C0.4663%2C0.5762>. The specimen from the Apennines is just beginning to flower and is not optimal for selection.

Acknowledgements

My thanks are due to the reviewer, who substantially improved the final text. The article appears through the institutional support of long-term conceptual development of research institutions provided by the Czech Ministry of Culture (ref. MK000094862).

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