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Autor: Peruzzi, Lorenzo / Bartolucci, Fabrizio

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Typification of the names within *Fritillaria montana* complex (Liliaceae) from central Mediterranean area

Lorenzo Peruzzi & Fabrizio Bartolucci

Abstract

PERUZZI, L. & F. BARTOLUCCI (2009). Typification of the names within *Fritillaria montana* complex (Liliaceae) from central Mediterranean area. *Candollea* 64: 133-142. In English, English and French abstracts.

Fritillaria caussolensis Goaty & Pons, *Fritillaria intermedia* N. Terracc., *Fritillaria montana* Hoppe, *Fritillaria neglecta* Parl., *Fritillaria orsiniana* Parl., and *Fritillaria pollinensis* N. Terracc. are typified. Comments are given on the taxonomic status of these six taxa.

Key-words

LILIACEAE – *Fritillaria* – Typification

Résumé

PERUZZI, L. & F. BARTOLUCCI (2009). Typification des noms du complexe *Fritillaria montana* (Liliaceae) en Méditerranée centrale. *Candollea* 64: 133-142. En anglais, résumés anglais et français.

Fritillaria caussolensis Goaty & Pons, *Fritillaria intermedia* N. Terracc., *Fritillaria montana* Hoppe, *Fritillaria neglecta* Parl., *Fritillaria orsiniana* Parl., et *Fritillaria pollinensis* N. Terracc. sont typifiés et la position taxonomique de ces taxons est précisée.

Addresses of the authors: LR: Dipartimento di Biologia, Unità di Botanica generale e sistematica, Università di Pisa, I-56126, Pisa, Italy. E-mail: lperuzzi@biologia.unipi.it
FB: Centro Ricerche Floristiche dell'Appennino (Parco Nazionale del Gran Sasso-Monti della Laga – Dipartimento di scienze Ambientali dell'Università di Camerino), San Colombo, I-67021, Barisciano (L'Aquila), Italy.

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1. *Fritillaria caussolensis* Ard., Fl. Anal. Alpes-Mar.: 375. 1867.

Neotypus (here designated): **FRANCE. Alpes Maritimes:** Caussols, Le Défens (Alpes Maritimes), IV.1868, *Goaty & Pons s.n.* (G!), complete individual on the right (Fig. 1, arrow).

The name *F. caussolensis* firstly appeared in ARDOINO (1867) for «*Reg. mont.: Caussols, Roque-Bérenguier et le Défens dans l'arrondissement de Grasse (G[oaaty])*». We checked for Goaty material in those herbaria which notoriously hold collections of Alpes Maritimes students (including DBN, NICE, G), but we were not able to find any original material. Therefore, we are forced here to select a neotype for this name: this is a complete individual gathered by Goaty & Pons in 1868 and conserved in G.

Taxonomic discussion. – After the study of the selected neotype, of the other material available, and also of living plants observed by us in Alpes Maritimes (April 2008), we are convinced that this name is fully synonymic with *F. montana* Hoppe, a SE European species easily recognizable for its more or less tessellated narrow and linear nectaries, besides its peculiar $2n = 18$ dysploid chromosome arrangement (ZAHAROF, 1988; KAMARI, 1991; TOMOVIĆ & al., 2007). Preliminary results of a specific morphometric study confirm this view (F. BARTOLUCCI & al., unpublished data).

Specimina visa altera. – «Caussols près Grasse (Alpes Maritimes)», 1871, *Burnat* (FI!); «Quartier du Défens entre Gourdon et Caussols, au dessus de Grasse (Alpes maritimes)», 30.IV.1872, *Burnat* (PI!); «Caussols dans le défens», 14.V.1888, *Pons & Vival* (RO!); «Caussols dans le défens», 19.V.1883, *Ozanon & Gillot* (G!).

2. *Fritillaria intermedia* N. Terrac. in Atti Accad. Sci. Napoli ser. 2, 8(9): 5. 1896.

≡ *F. tenella* var. *intermedia* (N. Terracc.) Fiori, Nuova Fl. Italia 1: 250. 1923.

Lectotypus (here designated): **ITALY. Calabria:** Pollino, nella Manfriana, IV.1893, *N. Terracciano s.n.* (RO!) (Fig. 2).

In the protologue, TERRACCIANO (1896) quotes Mount Manfriana only as the type locality of this taxon. There is a single collection in RO, collected three years before the description of this species, which can be doubtless considered as original material. This specimen is chosen as the lectotype.

Taxonomic discussion. – TERRACCIANO (1896) described this species as somewhat intermediate among *F. orsiniana* Parl. (= *F. montana*, see over) and *F. messanensis* Raf. (another well-defined central Mediterranean species with very different nectaries; see also KAMARI & PHITOS, 2006). Despite this, the study of type material and of living plants observed by us in Mount Manfriana (May 2005), clearly shows that *F. intermedia* is fully synonymic with *F. montana*. Preliminary results of a specific morphometric study confirm this view (F. BARTOLUCCI & al., unpublished data).

3. *Fritillaria montana* Hoppe in Flora 15: 476. 1832.

Lectotypus (here designated): **ITALY. Friuli-Venezia Giulia:** Monte Spaccato bei Trieste, s.d., *Hoppe s.n.* (LI!, specimen on the left) (Fig. 3, arrow).

The name *F. montana* Hoppe firstly appeared in KOCH (1832), described for Trieste (NE Italy). We checked for Hoppe's collections at BP, GJO, GZU, KL, LI, MW and WU. We were able to find a single specimen in LI, a part of which can be considered as original material. It is here selected as the lectotype of the name *F. montana*.

Taxonomic discussion. – After the study of the selected lectotype and of living plants from Monte Spaccato (April 2007), we can conclude that the type material clearly represents the SE European species to which the name *F. montana* is currently applied. As discussed by KAMARI (1991) and TOMOVIĆ & al. (2007), other names as *F. tenella* M. Bieb. and *F. orientalis* Adams were misapplied by european botanists (for instance: RIX 1980; PIGNATTI, 1982) and refer actually to other units. Accordingly *F. montana* is indeed the oldest name available for this species.

4. *Fritillaria neglecta* Parl., Fl. Ital. 2: 415. 1857.

≡ *F. lusitanica* var. *neglecta* (Parl.) Baker in J. Linn. Soc., Bot. 14: 261. 1875.

≡ *F. messanensis* subsp. *neglecta* (Parl.) Nyman, Consp. Fl. Eur.: 721. 1882.

≡ *F. lusitanica* subsp. *neglecta* (Parl.) K. Richt., Pl. Eur. 1: 213. 1890.

≡ *F. messanensis* var. *neglecta* (Parl.) Fiori, Nuova Fl. Italia 1: 249. 1923.

Lectotypus (here designated): **CROATIA. Istria:** In Monte Zagor supra Fianonam, oppidum Istriae, 1854, *Tommasini s.n.* (FI!) (Fig. 4).

In the protologue, PARLATORE (1857) affirms: «*Ho avuto favorita questa specie dal sig. Tommasini, il quale l'ha raccolta in Istria nel Monte Zagor dove è rara. Fiorisce in aprile ed è perenne*». We traced in FI, where most part of Parlatore's collections are conserved, a single specimen which can be clearly considered as original material. This specimen is chosen as the lectotype.

Taxonomic discussion. – PARLATORE (1857) described this species as different from *F. messanensis* Raf. in having all alternate leaves and campanulate flowers, so resulting somewhat close to *F. montana*. The study of type material and of living plants observed by us in Mount Sisol above Plomin (= *Fianona* in classical times) (April 2007), let us suspect that this taxon does not fit perfectly neither with *F. montana* nor with *F. messanensis*, showing however more affinity to the latter species respect with nectaries size and shape. RIX (2001), KAMARI & PHITOS (2006) and TOMOVIĆ & al. (2007) tentatively synonymize *F. neglecta* with *F. messanensis* subsp. *gracilis* (Ebel)

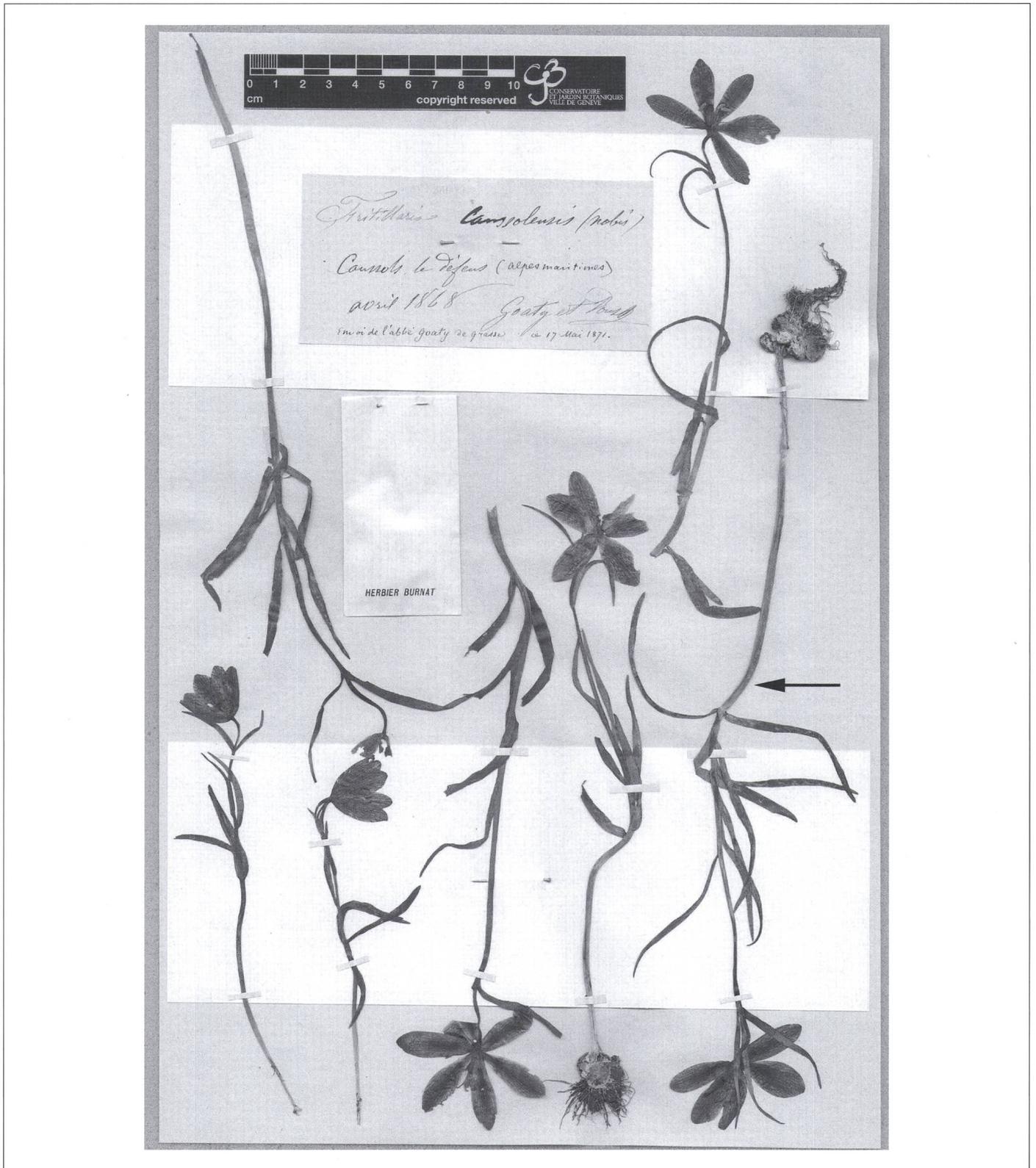


Fig. 1. – Neotypus of the name *Fritillaria caussolensis* Ard.
[Goaty & Pons s.n., G] [© Conservatoire et Jardin botaniques de la Ville de Genève]

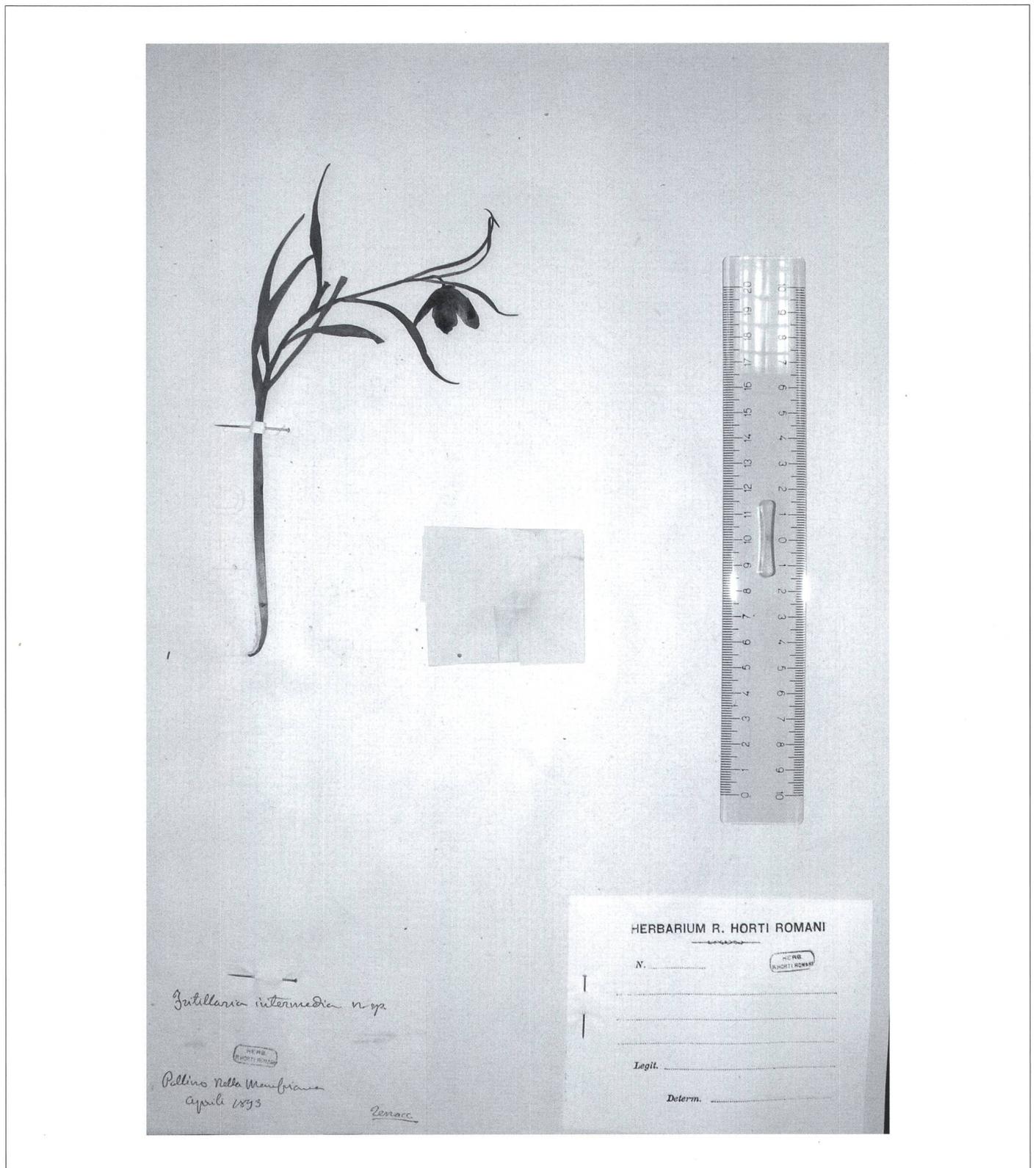


Fig. 2. – Lectotypus of the name *Fritillaria intermedia* N. Terracc.

[N. Terracciano s.n., RO] [© Università degli Studi di Roma La Sapienza. Reproduced with permission]

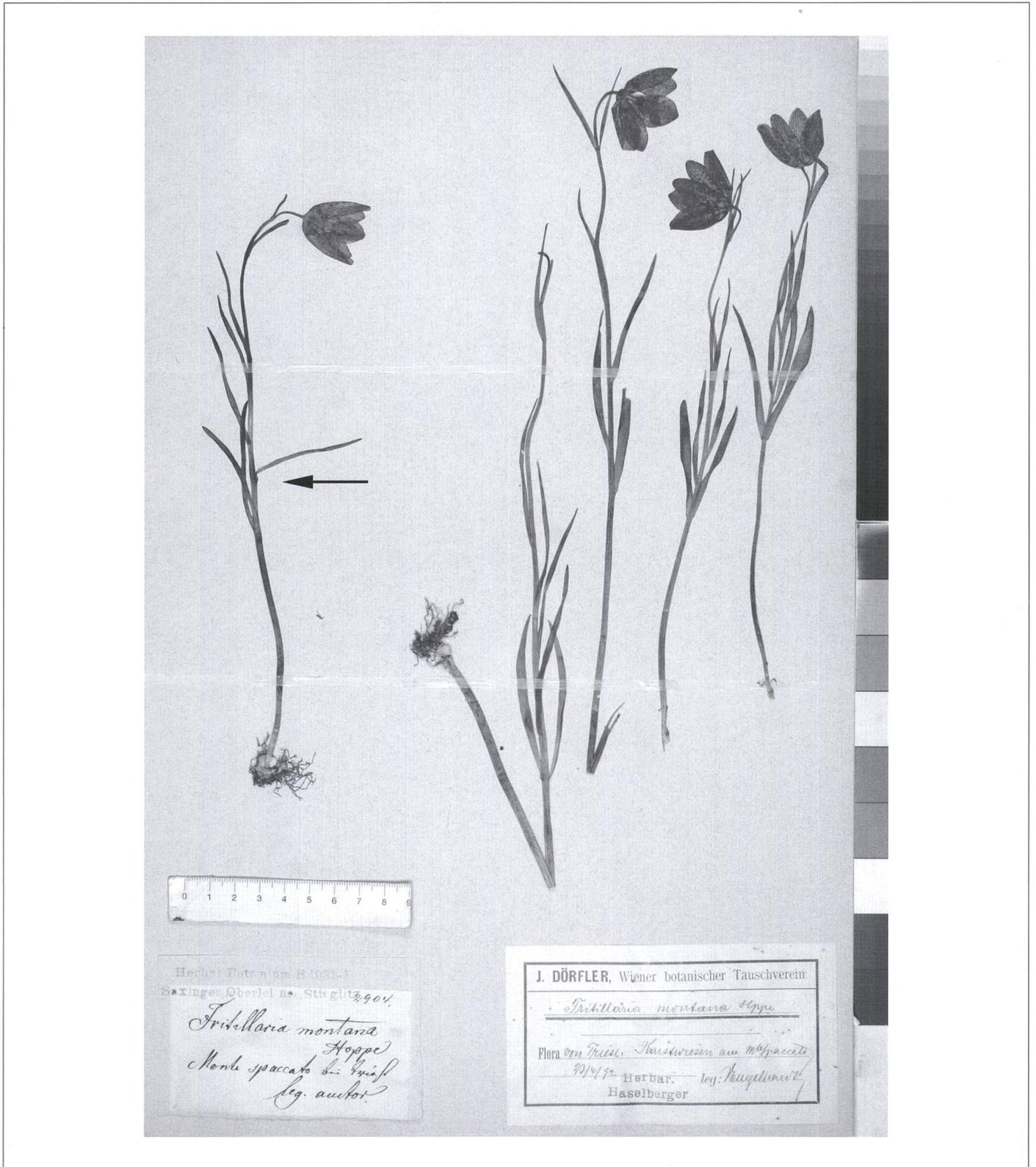


Fig. 3. – Lectotypus of the name *Fritillaria montana* Hoppe.

[Hoppe s.n., lI] [© Oberösterreichischen Landesmuseums, Linz. Reproduced with permission]

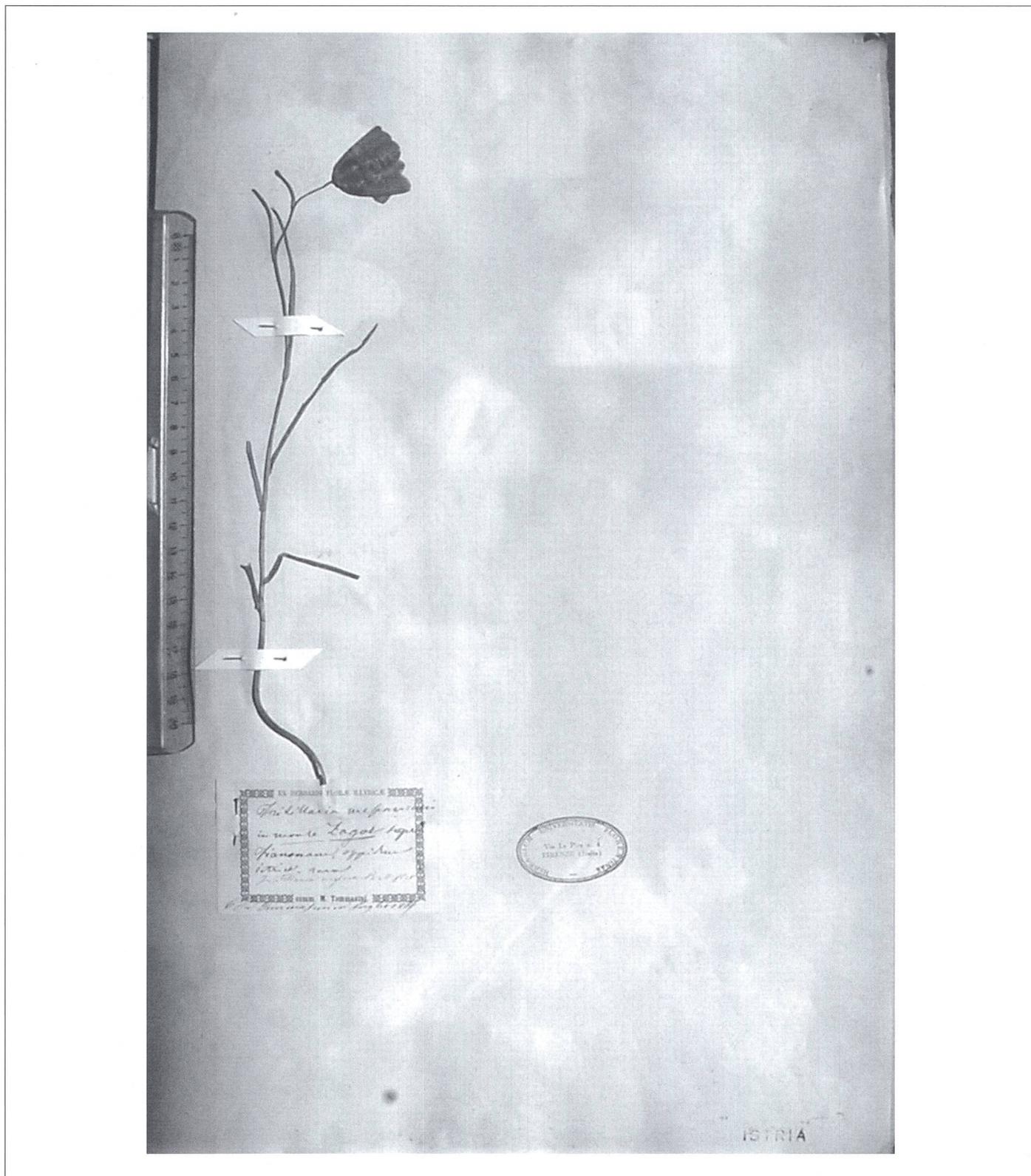


Fig. 4. – Lectotypus of the name *Fritillaria neglecta* Parl.

[Tommasini s.n., FI] [© Museo di Storia Naturale dell'Università, Firenze. Reproduced with permission]

Rix, a SW Balkan endemic. However, we do not agree completely with this view and further study is in progress (including morphometry and karyology) in order to clarify the systematic relationships of this taxon (L. PERUZZI & al., in preparation).

5. *Fritillaria orsiniana* Parl., Fl. Ital. 2: 411. 1857.

≡ *F. tenella* subsp. *orsiniana* (Parl.) Nyman, Consp. Fl. Eur.: 722. 1882.

≡ *F. tenella* var. *orsiniana* (Parl.) Fiori, Nuova Fl. Italia 1: 250. 1923.

Lectotypus (here designated): **ITALY. Abruzzo:** In pratis montanis M.te dei Fiori, 1847, *Orsini s.n.* (FI!, specimen on the left) (Fig. 5, arrow).

In the protologue, PARLATORE (1857) affirms: «*Nei monti pratosi dell'Appennino Piceno e degli Abruzzi, nel Monte della Sibilla, nel Monte dei Fiori e in altri luoghi vicini, dove è stata raccolta da Orsini e da Marzialetti. Fiorisce in Maggio e Giugno, ed è perenne*». We traced in FI four specimens which can all be considered as syntypes. Among them, we select the specimen in the best state as the lectotype.

Specimina visa altera (syntypi). – M. dei Fiori, Campo dei Fiori, V.1831, *Orsini* (FI!, sub *F. montana*); M. della Sibilla, 1837, *Marzialetti* (FI); M.te dei Fiori in Aprutium, s.d., *Orsini* (FI!, sub *F. meleagris*).

Taxonomic discussion. – After the study of the type material and of living plants observed by us in Montagna dei Fiori (N Abruzzo, May 2006), we are convinced that this name is fully synonymic with *F. montana*. Preliminary results of a specific morphometric and karyologic study confirm this view (F. BARTOLUCCI & al., unpublished data). CHICHIRICÒ & TAMMARO (1982) consider *F. orsiniana* as an independent species, in the light of its presumed $2n = 24$ diploid level, *F. montana* being notoriously diploid-dysploid with $2n = 18$ chromosomes (see above). KAMARI & PHITOS (2006) claim this counting to likely refer to *F. messanensis*, a species often confused with *F. montana*. However, the plant material studied by CHICHIRICÒ & TAMMARO (1982) came from Valle del Giovenco (C Abruzzo), a locality not cited by PARLATORE (1857). Accordingly, this problem is not pertinent at all for the application of the name *F. orsiniana*, which falls in synonymy with *F. montana* and has nothing to do with *F. messanensis*.

6. *Fritillaria pollinensis* N. Terrac. in Atti Accad. Sci. Napoli ser. 2, 8(9): 5. 1896.

≡ *F. tenella* var. *pollinensis* (N. Terracc.) Fiori, Nuova Fl. Italia 1: 250. 1923.

≡ *F. tenella* subsp. *pollinensis* (N. Terracc.) Zangh., Fl. Ital.: 850. 1976 [comb. inval.].

Lectotypus (here designated): **ITALY. Calabria:** Pollino, nella Manfrediana, IV.1891, *N. Terracciano s.n.* (RO!) (Fig. 6).

In the protologue, TERRACCIANO (1896) quotes Mount Manfrediana only as the type locality of this taxon. There is a single collection in RO, collected five years before the description of this species, which can be doubtless considered as original material. This specimen is chosen as the lectotype.

Taxonomic discussion. – The study of the type material and of living plants observed by us in Mount Manfrediana (May 2005) clearly shows that *F. pollinensis* is fully synonymic with *F. montana*. Preliminary results of a specific morphometric study confirm this view (F. BARTOLUCCI & al., unpublished data).

Acknowledgements

Curators of BP, DBN, FI, G, GJO, GZU, KL, LI, MW, NICE, RO, WU herbaria are gratefully acknowledged. Many thanks go also to Dr Jean-Marc Tison (L'Isle d'Abeau, France) for his kind help with *F. caussolensis* localization and study.

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Fig. 5. – Lectotypus of the name *Fritillaria orsiniana* Parl.

[Orsini s.n., FI] [© Museo di Storia Naturale dell'Università, Firenze. Reproduced with permission]

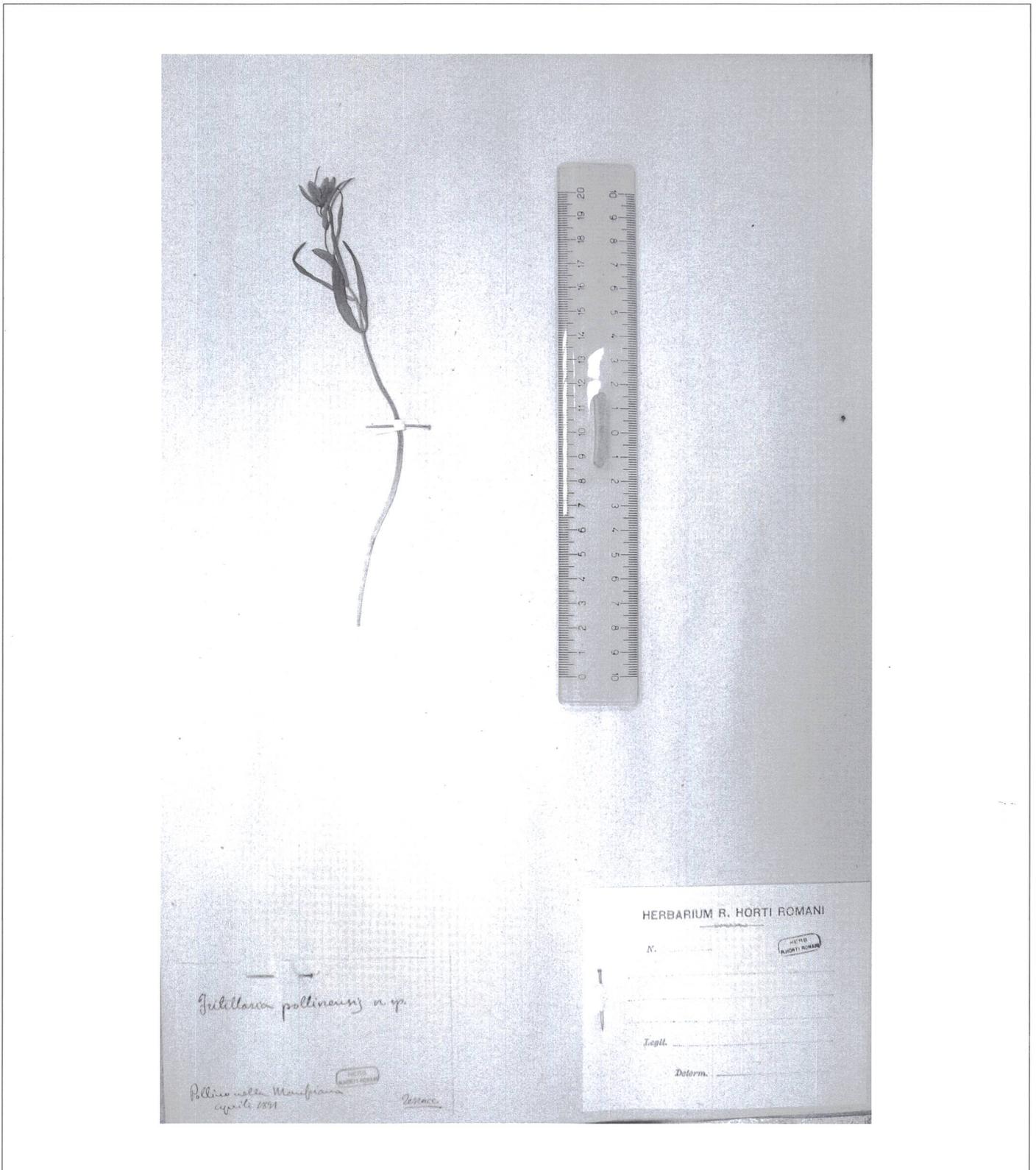


Fig. 6. – Lectotypus of the name *Fritillaria pollinensis* N. Terracc.
[N. Terracciano s.n., RO] [© Università degli Studi di Roma La Sapienza. Reproduced with permission]

