

Typification of *Fritillaria Tubiformis* Gren. & Godr., *Fritillaria Delphinensis* f. *Moggridgei* Planch. and *Fritillaria Delphinensis* var. *Burnatii* Planch. (Liliaceae) from SW Europe

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Typification of *Fritillaria tubiformis* Gren. & Godr., *Fritillaria delphinensis* f. *moggridgei* Planch. and *Fritillaria delphinensis* var. *burnatii* Planch. (Liliaceae) from SW Europe

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Abstract

BARTOLUCCI, F. & L. PERUZZI (2012). Typification of *Fritillaria tubiformis* Gren. & Godr., *Fritillaria delphinensis* f. *moggridgei* Planch. and *Fritillaria delphinensis* var. *burnatii* Planch. (Liliaceae) from SW Europe. *Candollea* 67: 23-29. In English. English and French abstracts.

The names of *Fritillaria tubiformis* Gren. & Godr., *Fritillaria delphinensis* f. *moggridgei* Planch. and *Fritillaria delphinensis* var. *burnatii* Planch. are lectotypified. Comments are given on the taxonomic value and systematic status of the three taxa.

Key-words

LILIACEAE – *Fritillaria* – Typification

Résumé

BARTOLUCCI, F. & L. PERUZZI (2012). Typification de *Fritillaria tubiformis* Gren. & Godr., *Fritillaria delphinensis* f. *moggridgei* Planch. et de *Fritillaria delphinensis* var. *burnatii* Planch. (Liliaceae) du SO de l'Europe. *Candollea* 67: 23-29. En anglais, résumés anglais et français.

Les noms de *Fritillaria tubiformis* Gren. & Godr., *Fritillaria delphinensis* f. *moggridgei* Planch. et de *Fritillaria delphinensis* var. *burnatii* Planch. sont lectotypifiés. Des commentaires sont donnés sur la valeur taxonomique et systématique de ces trois taxons.

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Typification

1. *Fritillaria tubiformis* Gren. & Godr. in Mém. Soc. Emul. Doubs ser. 2, 6: 13. 1855.

≡ *Fritillaria delphinensis* Gren. in Gren. & Godr., Fl. France 3: 180. 1855, nom. illeg.

Lectotypus (here designated): **FRANCE. Hautes Alpes:** Lusette en Luz (Drome), 1847, *Boullu s.n.* (P! ex Herb. Grenier sub *F. meleagris*, rev. *F. alpicola*) (Fig. 1).

Syntypi. – **FRANCE. Hautes Alpes:** Mt. Seuse pres Gap, VIII.1847, *Verlot s.n.* (P! ex Herb. Grenier, sub *F. meleagris*, rev. *F. alpicola*); Mt. Séuse près Gap, 1854, *Grenier s.n.* (K!).

GRENIER & GODRON (1855) quote several syntypes for this taxon. From the localities cited in the protologue, we traced, in P and K, specimens that can be considered as original material. Among these we choose the most well-developed and well-presented as lectotype.

Taxonomic discussion. – *Fritillaria tubiformis* was long confused with *F. meleagris* L. (i.e., BERTOLONI, 1839), but it is clearly distinct from all other species from West Europe (GRENIER & GODRON, 1855). On the other hand, it seems close to *F. latifolia* Willd., widespread from Caucasus to N Turkey (RIX, 2001), from which it differs in having glaucous leaves (vs. shiny green) and shorter style branches. Among the taxa usually synonymized with *F. tubiformis*, two seem to deserve special attention (*F. delphinensis* var. *burnatii* Planch. and *F. delphinensis* f. *moggridgei* Planch.), while others have doubtful taxonomic value (i.e., *F. delphinensis* var. *reverchonii* Rouy; ROUY, 1910). Similarly to what was done recently with the *F. montana* W. D. J. Koch complex (BARTOLUCCI & al., 2009; PERUZZI & al., 2009; PERUZZI & BARTOLUCCI, 2009), a biosystematic study is in progress about the *F. meleagris* L. complex (*F. meleagris* s.l. and *F. tubiformis* s.l.), aiming to clarify the relationships among the taxa and their distribution.

2. *Fritillaria delphinensis* f. *moggridgei* Planch. in Bull. Soc. Bot. France 20: 116. 1873.

≡ *Fritillaria delphinensis* var. *moggridgei* (Planch.) Nyman, Consp. Fl. Eur.: 722. 1882.

≡ *Fritillaria delphinensis* subsp. *moggridgei* (Planch.) K. Richt., Pl. Eur. 1: 212. 1890.

≡ *Fritillaria tubiformis* var. *moggridgei* (Planch.) Rouy, Fl. France 12: 404. 1910.

≡ *Fritillaria tubiformis* subsp. *moggridgei* (Planch.) Rix in Bot. J. Linn. Soc. 76: 356. 1978.

Lectotypus (here designated): **ITALY. Maritime Alps:** Col de Carbon, près le val Pesio (Prov. de Cuneo), Piémont, 29.VII.1872, *E. Burnat s.n.*, with note “j’ai encore trouvé cette espèce dans le val Cravina (du Val Pesio), près le Col (Il Colle) entre Pesio et Limone, puis dans le fond du

val del Pian del Creuzo (val Pesio) et enfin au Pied du Mont Cars au-dessus de la Chartreuse de Pesio” (G-BU! individual on the left; iso-: G-BU! individual on the right) (Fig. 2, arrow).

Syntypi. – **FRANCE. Maritime Alps:** M. Authion, Alpes Mtes, 26.IV.1867, *M. Moggridge s.n.* (G-BU!);

ITALY. Maritime Alps: Sommities au-dessus de la Chartreuse de Pesio (Prov. de Cuneo, Piémont), 6.VII.1872, *E. Burnat s.n.* (G-BU!); Chartreuse de Pesio près Coni (Vallone de Marguarès), 22.VI.1862, *s.coll.* (in Herb. Thuret, G-BU!, sub *F. lutea* M. Bieb.); Vallon de Pari, près le Chartreuse de Pesio, 2.VII.1862, *s.coll.* (in Herb. Thuret G-BU!, sub *F. lutea* M. Bieb.); ravins situés au-dessus de la bergerie de Breglio (Alpes de Breglio) près des neiges fondantes, 23.VI.1860, *Canut s.n.* (G-BU!); un seul exemplaire au bas d’un couloir descendant dans le val Pesio près Cuneo, sans doute descendu des hauteurs voisines avec une avalanche, 14.VI.1872, *E. Burnat s.n.* (G-BU!); Sommities au-dessus de la Chartreuse de Pesio (Prov. de Cuneo, Piémont), 6.VII.1872, *E. Burnat s.n.* (FI!, MPU!).

Iconography. – MOGGRIDGE (1864: plate XXV, sub *F. delphinensis* Gren.?) published a plate which illustrates specimens gathered “from a mountain not far from Giandola in the Sospello valley” (Fig. 3).

In the protologue, PLANCHON (1873) quoted, for this taxon, several type localities (gatherings in Herb. Thuret, G-BU) from the Maritime Alps and also the Moggridge’s iconography cited above, which is consequently original material for the name. Moreover, we traced in G-BU, MPU and FI specimens, from the cited localities, that completely fit with the protologue and then can be considered as original material too (syntypes). Among these, only one specimen, conserved in G-BU, is labelled as *F. delphinensis* γ *moggridgei* [manu Planch.] (January, 1873). The complete individual on the left is chosen as the lectotype.

Taxonomic discussion. – This taxon was treated, in the past, in different ways: as a subspecies (i.e., RIX, 1978), a variety (i.e., FIORI, 1923; PIGNATTI, 1982) or fully synonymic (i.e., AESCHIMANN & al., 2004) with *F. tubiformis*. The study of the selected lectotype and of the other available original material clearly shows that this taxon is closer to *F. tubiformis* than to any other European species. However, the two seem to be very distinct for many character-states. Our preliminary results confirm this view. Nowadays, there is some doubt about the relations between *F. tubiformis* subsp. *moggridgei* and *F. collina* Adam (= *F. lutea* M. Bieb.). The latter species, widespread in Caucasus (RIX, 2001), has yellow-greenish flowers and inner tepals with ciliate margins.

Specimina visa. – **FRANCE. Maritime Alps:** Mentone, 5000 [...], s.d., *M. Moggridge s.n.* (Herb. Hookerianum 1867, K!); Col de Tende, summer 1870, collected by the *Landlord* of the Ro. Grass Recoverers (sub *F. lutea* M. Bieb.) (FI!, G-BOI!, G-DC!, G (Herb. Reuter Barbey)!).

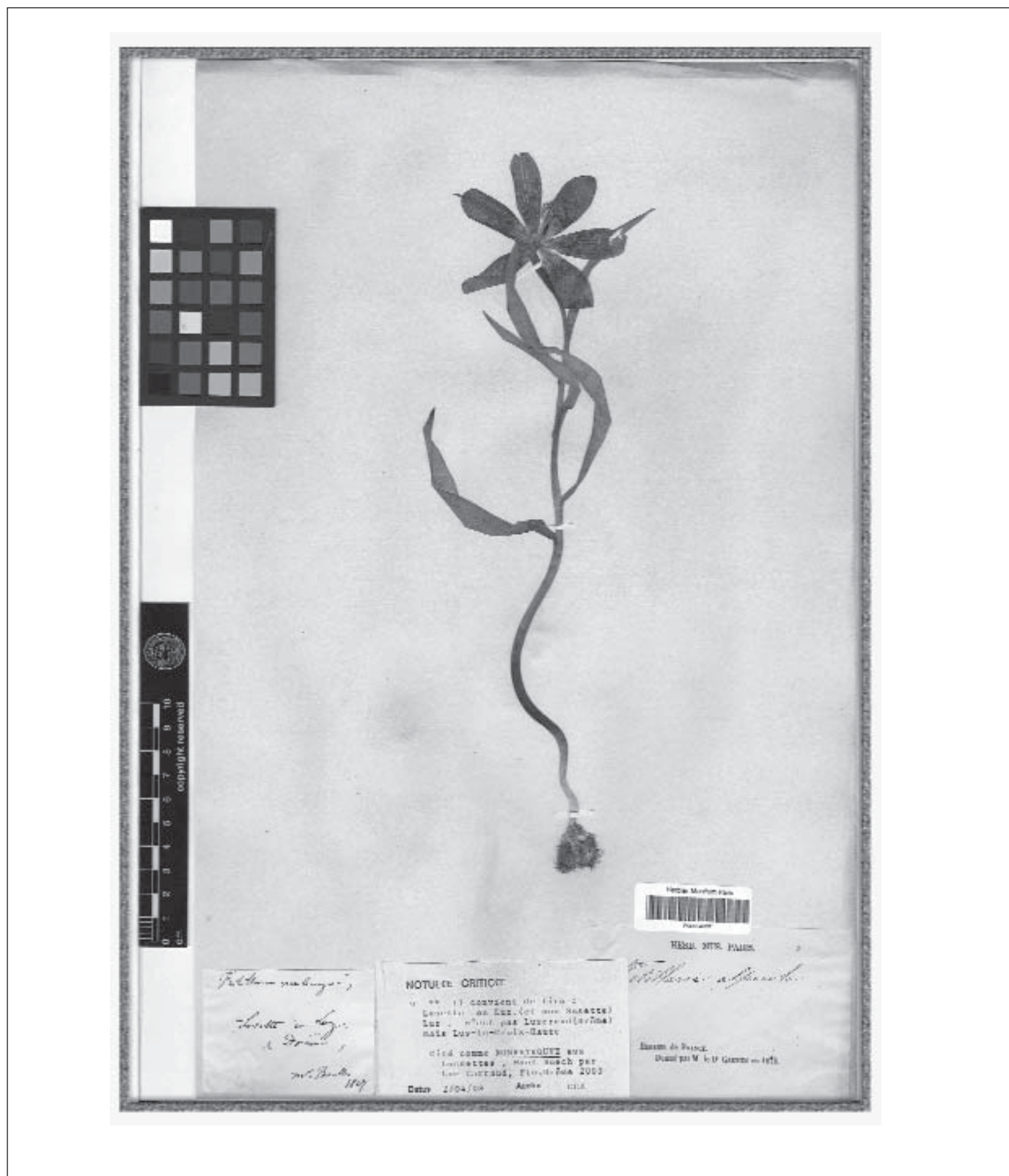


Fig. 1. – Lectotypus of the name *Fritillaria tubiformis* Gren. & Godr.

[Boullu s.n., P] [© Museum National d'Histoire Naturelle, Paris. Reproduced with permission]



Fig. 2. – Lectotypus of the name *Fritillaria delphinensis* f. *moggridgei* Planch.

[E. Burnat s.n., G-BU] [© Conservatoire et Jardin botaniques de la Ville de Genève]



Fig. 3. – Iconography of “*Fritillaria delphinensis* Gren.?” , published by MOGGRIDGE (1864: plate XXV), which is also original material for *F. delphinensis* f. *moggridgei* Planch.

3. *Fritillaria delphinensis* var. *burnatii* Planch. in Bull. Soc. Bot. France 20: 115. 1873.

≡ *Fritillaria delphinensis* subsp. *burnatii* (Planch.) K. Richt., Pl. Eur. 1: 212. 1890.

≡ *Fritillaria tubiformis* var. *burnatii* (Planch.) Rouy, Fl. France 12: 403. 1910.

≡ *Fritillaria meleagris* subsp. *burnatii* (Planch.) Rix in Bot. J. Linn. Soc. 76: 356. 1978.

Lectotypus (here designated): **FRANCE. Maritime Alps:** Pâturages au mont Piernaude près le col de Tende, 29.VI.1861, *E. Borgeau 346* (G-BU!, complete individual on the right; iso-: FI!, G!) (Fig. 4, arrow).

Syntypi. – **FRANCE. Maritime Alps:** Sommites voisines du col de Tende, route de Margherita di Caramagna, 30.VI. 1872, *E. Burnat s.n.* (G-BU!, G! sub *F. sp. nov.?*/ *F. meleagris* All. herb. pr. Parte, MPU!); Sommites voisines du col de Tende (Piemont), dans les pâturages secs (sur la route entre le sommet du Col et Margherita di Caramagna), 30.VI.1872, *E. Burnat s.n.* (K! sub *F. allionii* Planch. ined.).

In the protologue, PLANCHON (1873) quotes several type localities in the Maritime Alps and only two collections (29.VI.1861, *Borgeau 346* in Herb. Thuret and 30.VI. 1872, *Burnat s.n.* in Herb. Thuret). We traced in G-BU, K, MPU and FI specimens, from the cited localities, that can be considered as original material (syntypes). Among these, there is one in G-BU, which is labelled as *F. delphinensis* var. *burnatii manu* Planch. (January, 1873). The complete individual on the right is chosen as the lectotype.

Taxonomic discussion. – *Fritillaria meleagris* subsp. *burnatii* has long been confused with other close taxa (in herbaria checked by us: *F. meleagris* L., *F. involucreta* All. and *F. delphinensis* or fully synonymized with *F. tubiformis*, mostly by Italian botanists (i.e., FIORI, 1923; ZANGHERI, 1976; PIGNATTI, 1982). After study of the selected lectotype and of the other available original material we are convinced that *F. meleagris* subsp. *burnatii* is an independent taxon actually closer to *F. meleagris* than to *F. tubiformis*. This hypothesis agrees with RIX (1978) in considering this unit as a subspecies of *F. meleagris*. Anyway, further studies aimed at clarifying the taxonomic value, the systematic status and the actual distribution of this taxon are in progress.

Specimen visum. – **FRANCE. Maritime Alps:** Col de Tende, Alpes Maritimes, fin VI.1868, *Burnat s.n.* (FI!).

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Fig. 4. – Lectotypus of the name *Fritillaria delphinensis* var. *burnatii* Planch.

[E. Borgeau 346, G-BU] [© Conservatoire et Jardin botaniques de la Ville de Genève]

