

New combinations in the genus *Teline* Medicus. Typification of *Cytisus pallidus* Poirét.

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Resumen: Arco Aguilar, M. del. *Nuevas combinaciones del género Teline Medicus. Tipificación de Cytisus pallidus Poirét. Itinera Geobot. 7: 519-523 (1993)*

En este artículo se presentan las nuevas combinaciones nomenclaturales *Teline maderensis* Webb & Berth. subsp. *paivae* (Lowe) M. del Arco, *comb. et stat. nov.*, *T. pallida* (Poirét) Kunkel subsp. *gomeræ* (Gibbs & Dingw.) M. del Arco, *comb. nov.*, *T. stenopetala* (Webb & Berth.) Webb & Berth. subsp. *microphylla* (Pit. & Proust) M. del Arco, *comb. et stat. nov.*; *T. stenopetala* subsp. *pauciovulata* (M. del Arco) M. del Arco, *comb. et stat. nov.*, *T. stenopetala* subsp. *sericea* (Pit. & Proust) M. del Arco, *comb. et stat. nov.* and *T. stenopetala* subsp. *spachiana* (Webb) M. del Arco, *comb. et stat. nov.* Además se hacen algunas consideraciones acerca de la tipificación de *Cytisus pallidus* Poirét, que tiene importantes repercusiones nomenclaturales. Por último se presenta un catálogo de los táxones del género *Teline* para los archipiélagos macaronésicos.

Abstract: Arco Aguilar, M. del. *New combinations in the genus Teline Medicus. Typification of Cytisus pallidus Poirét. Itinera Geobot. 7: 519-523 (1993)*

In this paper I show the new nomenclatural combinations *Teline maderensis* Webb & Berth. subsp. *paivae* (Lowe) M. del Arco, *comb. et stat. nov.*, *T. pallida* (Poirét) Kunkel subsp. *gomeræ* (Gibbs & Dingw.) M. del Arco, *comb. nov.*, *T. stenopetala* (Webb & Berth.) Webb & Berth. subsp. *microphylla* (Pit. & Proust) M. del Arco, *comb. et stat. nov.*, *T. stenopetala* subsp. *pauciovulata* (M. del Arco) M. del Arco, *comb. et stat. nov.*, *T. stenopetala* subsp. *sericea* (Pit. & Proust) M. del Arco, *comb. et stat. nov.* and *T. stenopetala* subsp. *spachiana* (Webb) M. del Arco, *comb. et stat. nov.* In addition I make some considerations about the typification of *Cytisus pallidus* Poirét which has some important nomenclatural implications. Finally a catalogue of the *Teline* taxa from the Macaronesian Archipelagos is given.

INTRODUCTION

After considering the varietal rank given to several taxa from *Teline* in my Doctoral Thesis (M. del Arco, 1981, *Rev. Gen. Teline Med. en la Reg. Macaronésica*. Ph. D. Thesis. Dep. of Botany. Biology Fac. University of La Laguna. Spain), following modern taxonomic criteria I have come to the conclusion that they must have the subspecific rank. In this valuation, besides the taxonomic characters, I have taken into account the ecological characters and phytosociological characters of the communities where they are involved. They have an important diagnostic value.

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NOMENCLATURAL CONCLUSIONS

Teline maderensis Webb & Berth. subsp. *paivae* (Lowe) M. del Arco, *comb. et stat. nov.*

Bas. - *Genista paivae* Lowe, *Man. Fl. Mad.* 1: 125, 1868.

Syn. - *Cytisus paivae* (Lowe) Masf., *Anal. Soc. Esp. Hist. Nat.* 10: 149, 1881; *Teline paivae* (Lowe) Gibbs & Dingw., *Bol. Soc. Brot.* 45 (2): 288, 1972; *Teline maderensis* Webb & Berth. var. *paivae* (Lowe) M. del Arco, *Vieraea* 12: 194, 1983.

Teline pallida (Poiret) Kunkel, *Cuad. Bot. Canar.* 25: 40, 1975.

Bas. - *Cytisus pallidus* Poiret, *Encycl. Méth. Bot. Suppl.* 1: 442, 1881.

Typus: FI-Webb n° 041189. *Holotypus* !

Poiret (1811) published *Cytisus pallidus* making the following description: "*Cytisus* foliis sessilibus, oblongo-lanceolatis, subsericeis; floribus axillaribus terminalibusque, subcapitatis; ramis sulcatis, glabris"; and he wrote: "Un *Cytisus linifolius*? var.". He said that Broussonet collected this specimen in Canary Islands and that he saw a dry specimen in the Desfontaines's herbarium.

After a long time following the trail of this specimen mentioned by Poiret, I found the holotype in 1980 in the FI-Webb herbarium, and it corresponded with the voucher n° 041189 (M. del Arco, 1981. *op. cit.*). It has a label on its bottom right that reads "Canaries" that according to Dr. Steimberg was written by Broussonet. Another label on its bottom left reads that the voucher came from the Desfontaines's herbarium, and also written by Webb "*Teline linifolia* Webb var.". There are not any other materials in FI that present these characteristics. Of course, in order to recognize this voucher as the holotype I got in touch with P herbarium and they told me that there is a lack of this material. The two pieces of plant contained on the sheet only have a few flowers, and I have checked they correspond to *Teline linifolia* (L.) Webb & Berth. subsp. *teneriffae* Gibbs & Dingw. Therefore both *Cytisus pallidus* Poiret and *Teline linifolia* (L.) Webb & Berth. subsp. *teneriffae* Gibbs & Dingw. are taxonomic synonyms. I now consider the taxon as being *Teline pallida* (Poiret) Kunkel. It is curious that the voucher FI-Webb n° 041189 remembers, mainly by its large leaves, the specimen collected by Broussonet in Tenerife and afterwards deposited in B herbarium which Willdenow nominated *Spartium nitens* in its label and later was published as *Spartium nitens* Willd ex Sprengel, *Syst. Veg.* (ed. 16) 3: 177, 1826. By their characteristics both probably were collected in the same place in Anaga (Tenerife) likely "Roque de los Pinos" or "Roque de las Animas".

The nomenclatural controversy associate with *Cytisus pallidus* Poiret was originated from its inclusion by Webb & Berthelot as a synonym of *Teline linifolia* (L.) Webb & Berth. var. *latifolia* Webb & Berth. (plant from La Palma) taxon nowadays considered as *Teline*

splendens (Webb & Berth.) M. del Arco. Perhaps this inclusion was because of the type material of *Cytisus pallidus* Poiret showed large leaves near the variability top of *Teline linifolia* (L.) Webb & Berth. var. *angustifolia* Webb & Berth. (plant from Tenerife -at present *Teline pallida* (Poiret) Kunkel subsp. *pallida*-) and into the variability range of *Teline linifolia* (L.) Webb & Berth. var. *latifolia* Webb & Berth. Another fact that induces to think in the mistake of Webb is that besides the localities in La Palma Island where he collected *Teline linifolia* (L.) Webb & Berth. var. *latifolia* Webb & Berth. "Convalle del Rio insulae Palmae ad altitudinem regioneis sylvosae" also said "eanque olim ex herbario in Teneriffa legit cl. Broussonet", and we must to have in account that in Tenerife it is not found the plant of La Palma. We know that Webb hesitated about the identity of both taxa, and it is made clear in the *Teline linifolia* (L.) Webb & Berth. var. *latifolia* Webb & Berth. typus label that literally reads "*G. linifolia* affinis au *Cytisus pallidus* Poir. ?". In spite of that he kept *Cytisus pallidus* Poir. as a synonym of *Teline linifolia* (L.) Webb & Berth. var. *latifolia* Webb & Berth. This false synonym showed in Webb & Berthelot *Phyt. Can.* 3(2): 42, 1842 has originated later unfortunate nomenclatural combinations made by authors that not checked the identity of *Cytisus pallidus* Poiret. Thus, Briquet, *Cyt. Alp. Marit.*: 140, 1894 published the new combination *Cytisus linifolius* (L.) Lamk. var. *pallidus* (Poiret) Briquet, and Gibbs & Dingw., *Bol. Soc. Brot.* 45 (2 sér.): 297, 1972 published *Teline linifolia* (L.) Webb & Berth. subsp. *pallida* (Poiret) Gibbs & Dingw. Both taxa were conceived by their authors in a different sense to the typus of their basyonims and they were referred at the current *Teline splendens* (Webb & Berth.) M. del Arco. The same occurred with the combination *Teline pallida* (Poiret) Kunkel but in accordance with Art. 55-2 (I.C.B.N.) if we consider the taxon at the specific level under the genus *Teline* this combination must be retained in spite of the name was clearly referred by Kunkel to *Teline splendens* (Webb & Berth.) M. del Arco.

subsp. *pallida*

Syn.-*Genista nitens* Willd. ex Buch, *Allg. Vebers. Fl. Can. Ins.*: 376, 1819; *Spartium nitens* Willd ex Sprengel, *Syst. Veg.* (ed. 16) 3: 177, 1826; *Teline linifolia* (L.) Webb & Berth. var. *angustifolia* Webb & Berth., *Phyt. Canar.* 3(2): 42, 1842 *pro parte*; *Cytisus linifolius* (L.) Lamk. var. *platyphyllus* Briq., *Cyt. Alp. Marit.*: 140, 1894 *pro parte*; *Teline linifolia* (L.) Webb & Berth. subsp. *teneriffae* Gibbs & Dingw., *Lagascalia* 4 (1): 37, 1974 [*et in Bol. Soc. Brot.* 45 (2 sér.): 299, 1972 *nom. non rite public*]; *Teline teneriffae*(Gibbs & Dingw.) Bramw., *Fl. Silv. I. Canar.*: 160, 1990, *nom. non rite public*.

subsp. *gomeræ* (Gibbs & Dingw.) M. del Arco, *comb. nov.*

Bas.-*Teline linifolia* (L.) Webb & Berth. subsp. *gomeræ* Gibbs & Dingw., *Lagascalia* 4(1): 37, 1974 (*bas.*) [*et in Bol. Soc. Brot.* 45 (2 sér.): 301, 1972, *nom. non rite public.*]

Syn.-*Teline gomeræ* (Gibbs & Dingw.) Kunkel, *Cuad. Bot. Canar.* 25: 40, 1975.

Teline stenopetala (Webb & Berth.) Webb & Berth. subsp. *microphylla* (Pit. & Proust) M. del Arco, *comb. et stat nov.*

Bas. - *Cytisus stenopetalus* (Webb & Berth.) Masf. var. *microphylla* Pit & Proust, *Les Iles Canar.*: 151, 1908.
Syn. - *Cytisus stenopetalus* (Webb & Berth.) Christ, *Bot. Jahrb.* 9: 162, 1887 *pro parte*; *Cytisus stenopetalus* (Webb & Berth.) Masf. var. *gomeræ* Pit. & Proust, *op. cit.*: 151, 1908; *Teline stenopetalata* (Webb & Berth.) Webb & Berth. var. *microphylla* (Pit. & Proust) Gibbs & Dingw., *Bol. Soc. Brot.* 45 (2 sér.): 289, 1972.

Teline stenopetalata (Webb & Berth.) Webb & Berth. subsp. *pauciovulata* (M. del Arco) M. del Arco, *comb. et stat. nov.*

Bas. - *Teline stenopetalata* (Webb & Berth.) Webb & Berth. var. *pauciovulata* M. del Arco, *Vieraea* 12: 214, 1983.

Teline stenopetalata (Webb & Berth.) Webb & Berth. subsp. *sericea* (Pit. & Proust) M. del Arco, *comb. et stat. nov.*

Bas. - *Cytisus stenopetalus* (Webb & Berth.) Masf. var. *sericea* Pit. & Proust, *Les Iles Canar.*: 152, 1908.

Syn. - *Cytisus stenopetalus* (Webb & Berth.) Masf. var. *palmensis* Pit. et Proust, *op. cit.*: 151, 1908 *pro parte*;
Teline stenopetalata (Webb & Berth.) Webb & Berth. var. *sericea* (Pit. & Proust) M. del Arco, *Vieraea* 12: 211, 1983

Teline stenopetalata (Webb & Berth.) Webb & Berth. subsp. *spachiana* (Webb) M. del Arco, *comb. et stat. nov.*

Bas. - *Genista (Teline) spachiana* Webb, *Bot. Mag.*: 71, t. 4195, 1845.

Syn. - *Cytisus spachianus* O. Kuntze, *Rev. Gen. Pl.* 1: 178, 1891; *Teline stenopetalata* (Webb & Berth.) Webb & Berth. var. *spachiana* (Webb) M. del Arco, *Vieraea* 12: 218, 1983.

CATALOGUE

Teline canariensis (L.) Webb & Berth. Canary I. (CT)

Teline maderensis Webb & Berth.

subsp. *maderensis*. Madeira (M)

subsp. *paivæ* (Lowe) M. del Arco. Madeira (M)

Teline microphylla (DC) Gibbs & Dingw. Canary I. (C)

Teline monspessulana (L.) C. Koch. Azores (MGPL)

Teline nervosa (Esteve Chueca) A. Hans. & Sund. Canary I. (C)

Teline osyrioides (Svent.) Gibbs & Dingw.

subsp. *osyrioides*. Canary I. (T)

subsp. *sericea* (O.Kuntze) M. del Arco. Canary I. (T)

Teline pallida (Poiret) Kunkel

subsp. *pallida*. Canary I. (T)

subsp. *gomeræ* (Gibbs & Dingw.) M. del Arco. Canary I. (G)

Teline rosmarinifolia Webb & Berth.

subsp. *rosmarinifolia* Canary I. (C)

subsp. *eurifolia* M. del Arco

var. *eurifolia* Canary I. (C)

var. *stipulata* M. del Arco . Canary I. (C)

Teline salsoloides M. del Arco & J.R.Acebes . Canary I. (T)

Teline splendens (Webb & Berth.) M. del Arco . Canary I. (P)

Teline stenopetala (Webb & Berth.) Webb & Berth.

subsp. *stenopetala* . Canary I. (C^{*}T^{*}P). Cape Verde I. (AF), , bib. ref.

subsp. *microphylla* (Pit. & Proust) M. del Arco . Canary I. (GH)

subsp. *pauciovulata* (M. del Arco) M. del Arco . Canary I. (G)

subsp. *sericea* (Pit. & Proust) M. del Arco . Canary I. (P)

subsp. *spachiana* (Webb) M. del Arco . Canary I. (T)

(Taxa chorology: Azores (M: So Miguel, G: Graciosa, P: Pico, L: Flores); Madeira (M: Madeira); Canary Islands (C: Gran Canaria, T: Tenerife, G: La Gomera, H: El Hierro, P: La Palma); Cape Verde Islands (A: Santo Anto; F: Fogo); * = introduced)