

Nomenclatural novelties for the Euro+Med flora

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Abstract - Today's plant phylogeny more and more deals with ranks from the genus down, so changes in current taxonomy and nomenclature are frequently requested. For this reason, referring to the Euro+Med flora, we take here into account 20 taxa and recover the following forgotten nomenclatural combinations: *Bidens atrosanguinea* (Hook.) Regel, *B. formosa* (Bonato) Sch.Bip., *B. sulphurea* (Cav.) Sch.Bip., and *B. tinctoria* (Nutt.) Baill. ex Daydon. Moreover we propose the new names *Agrostis linkii* Banfi, Galasso & Bartolucci, *Bidens selenactis* Banfi, Galasso & Bartolucci, *Bidens sweetiana* Banfi, Galasso & Bartolucci, and the new combinations *Achnatherum paradoxum* (L.) Banfi, Galasso & Bartolucci, *A. virescens* (Trin.) Banfi, Galasso & Bartolucci, *Agrostis linkii* Banfi, Galasso & Bartolucci subsp. *prostrata* (Hack. & Lange) Banfi, Galasso & Bartolucci, *Bidens atkinsoniana* (Douglas ex Lindl.) Banfi, Galasso & Bartolucci, *B. basalis* (A.Dietr.) Banfi, Galasso & Bartolucci, *B. gladiata* (Walter) Banfi, Galasso & Bartolucci, *B. lanceolata* (L.) Banfi, Galasso & Bartolucci, *Calamagrostis arenaria* (L.) Roth subsp. *arundinacea* (Husn.) Banfi, Galasso & Bartolucci, *Prunus ×hybrida* (Schmidt) Galasso, Banfi & Bartolucci, *Solanum aethiopicum* L. subsp. *anguivi* (Lam.) Banfi, Galasso & Bartolucci, *S. macrocarpon* L. subsp. *dasyphyllum* (Schumach. & Thonn.) Banfi, Galasso & Bartolucci, *S. melongena* L. subsp. *insanum* (L.) Banfi, Galasso & Bartolucci, and *Trisetaria argentea* (Willd.) Banfi, Galasso & Soldano.

Key words: *Achnatherum*, *Agrostis*, *Bidens*, *Calamagrostis*, nomenclature, *Prunus*, *Solanum*, taxonomy, *Trisetaria*.

Riassunto - Combinazioni nuove, combinazioni rivalutate e nomi nuovi per la flora d'Italia e d'Europa.

Gli odierni studi filogenetici in campo botanico stanno ponendo crescente attenzione ai taxa di rango generico e di rango inferiore. Da ciò nasce la frequente necessità di modificare i modelli sistematici, i quali richiedono a loro volta nuovi assestamenti della tassonomia corrente e della nomenclatura. Il presente contributo prende in considerazione 20 taxa di interesse europeo e mediterraneo per i

quali 1) vengono recuperate 4 vecchie combinazioni: *Bidens atrosanguinea* (Hook.) Regel, *B. formosa* (Bonato) Sch.Bip., *B. sulphurea* (Cav.) Sch.Bip. e *B. tinctoria* (Nutt.) Baill. ex Daydon; 2) sono istituiti 3 nomi nuovi: *Agrostis linkii* Banfi, Galasso & Bartolucci, *Bidens selenactis* Banfi, Galasso & Bartolucci e *Bidens sweetiana* Banfi, Galasso & Bartolucci; 3) si propongono le seguenti 13 nuove combinazioni: *Achnatherum paradoxum* (L.) Banfi, Galasso & Bartolucci, *A. virescens* (Trin.) Banfi, Galasso & Bartolucci, *Agrostis linkii* Banfi, Galasso & Bartolucci subsp. *prostrata* (Hack. & Lange) Banfi, Galasso & Bartolucci, *Bidens atkinsoniana* (Douglas ex Lindl.) Banfi, Galasso & Bartolucci, *B. basalis* (A.Dietr.) Banfi, Galasso & Bartolucci, *B. gladiata* (Walter) Banfi, Galasso & Bartolucci, *B. lanceolata* (L.) Banfi, Galasso & Bartolucci, *Calamagrostis arenaria* (L.) Roth subsp. *arundinacea* (Husn.) Banfi, Galasso & Bartolucci, *Prunus ×hybrida* (Schmidt) Galasso, Banfi & Bartolucci, *Solanum aethiopicum* L. subsp. *anguivi* (Lam.) Banfi, Galasso & Bartolucci, *S. macrocarpon* L. subsp. *dasyphyllum* (Schumach. & Thonn.) Banfi, Galasso & Bartolucci, *S. melongena* L. subsp. *insanum* (L.) Banfi, Galasso & Bartolucci e *Trisetaria argentea* (Willd.) Banfi, Galasso & Soldano.

Parole chiave: *Achnatherum*, *Agrostis*, *Bidens*, *Calamagrostis*, nomenclatura, *Prunus*, *Solanum*, tassonomia, *Trisetaria*.

INTRODUCTION

Research advancements in plant phylogeny continuously open new horizons on systematics, especially from the rank of genus downward, making necessary from time to time to reassess taxonomy and nomenclature where this is considered better representative of the evolution pattern. This primary purpose must be pursued through the provisions on names as established by the ICN (McNeill *et al.*, 2012). For the subjects discussed here papers have recently shown that some genera must be merged as well as, in the case of crop-wild relationship, subordination is needed at subspecies rank, as already proposed by Harlan & de Wet (1971) and followed by most authors (e.g., Bartolucci *et al.*, 2017; Galasso *et al.*, 2017). Particularly when the descent is demonstrably linear, that means the crop selection took place starting from and proceeding within a single wild species without external genomial contributions, it is preferable subordinating at subspecies rank the wild to the crop or vice versa, depending on the names priority. In fact most crops and wild relatives had been described independently at the rank of species, both because of an unquestionable morphological distinctness and because of the historical prematureness of evolution and domestication ideas.

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In this paper seventeen taxa both native and alien to Italy (see: Bartolucci *et al.*, 2016, 2018; Galasso *et al.*, 2016), Europe and the Mediterranean area (Euro+Med, 2006 onwards) are taken into account. Moreover we have included three tropical crops of *Solanum*, currently being tested in the Italian as well as European agriculture, whose wild ancestors are well known but, based on what was said before, need taxonomic adjustment.

ASTERACEAE

Phylogenetic investigations on the Coreopsideae (Kim *et al.*, 1999; Crawford *et al.*, 2001, 2009; Kimball & Crawford, 2004; Crawford & Mort, 2005; Mort *et al.*, 2008) highlighted several genera, including *Coreopsis* L. and *Cosmos* Cav., within which *Bidens* L. is evidently nested, making it clear that we can not keep them separate. Both *Bidens* [1753] and *Coreopsis* [1753] have the same priority over remaining genera needing to opt for *Bidens* as that chosen by Baillon (1886), who first united them (Art. 11.5. of ICN). Concerning the Euro+Med area, two new names and eight combinations are shown below: four of the last already exist, the other are proposed here as new.

Bidens atkinsoniana (Douglas ex Lindl.) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Coreopsis atkinsoniana* Douglas ex Lindl., *Edward's Bot. Reg.*, 16: pl. 1376. 1830 [Mar-Dec 1830].

Note: some authors (e.g., Strother, 2006) consider this species as a synonym of *B. tinctoria*.

Bidens atosanguinea (Hook.) Regel (≡ *Cosmos diversifolius* Otto ex Knowles & Westc. var. *atosanguineus* Hook. ≡ *Cosmos atosanguineus* (Hook.) Voss).

Bidens basalis (A.Dietr.) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Calliopsis basalis* A.Dietr., *Allg. Gartenzeitung* (Otto & Dietrich), 3 (42): 329 (-331). 1835 [17 Oct 1835]. (≡ *Coreopsis basalis* (A.Dietr.) S.F.Blake).

Bidens formosa (Bonato) Sch.Bip., *Bot. Voy. Herald [Seemann]*, 7-8: 307. 1856. Bas.: *Coreopsis formosa* Bonato, *Pisaura Automorpha e Coreopsis formosa*: XXI (-XXVII, pl. II). 1793 [Sep-Oct 1793]. (≡ *Cosmos bipinnatus* Cav., non *Bidens bipinnata* L. ≡ *Georgia bipinnata* (Cav.) Spreng.).

Note: the binomial of Schultz Bipontinus is to be understood as new combination of the Bonato's epithet, not as a replaced name of Cavanilles' one (Art. 41.4. and Ex. 10. of ICN). We are convinced that Schultz knew the reference of Steudel's Nomenclator Botanicus (1840: 425), who reports *Coreopsis formosa* Bonato as synonym of *Cosmos* (sub *Cosmus*) *bipinnatus* Cav.

Bidens gladiata (Walter) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Coreopsis gladiata* Walter, *Fl. Carol. [Walter]*: 215. 1788 [Apr-Jun 1788]. (≡ *Coreopsis angustifolia* Aiton, non *C. angustifolia* L.).

Bidens lanceolata (L.) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Coreopsis lanceolata* L., *Sp. Pl.*, 2: 908. 1753 [1 May 1753].

Bidens selenactis Banfi, Galasso & Bartolucci, **nom. nov.** Bas.: *Coreopsis verticillata* L., *Sp. Pl.*, 2: 907 (-908). 1753 [1 May 1753]., non *Bidens verticillata* L., *Sp. Pl.*, 2: 833. 1753 [1 May 1753].

Etymology: latinized greek translation of 'Moon-beam', one of the most popular cultivar of this species.

Bidens sulphurea (Cav.) Sch.Bip. (≡ *Cosmos sulphureus* Cav. = *Cosmos aurantiacus* Klatt, non *Bidens aurantiaca* Colenso).

Bidens sweetiana Banfi, Galasso & Bartolucci, **nom. nov.** Bas.: *Coreopsis grandiflora* Hogg ex Sweet, *Brit. Fl. Gard. [Sweet]*, 2: pl. 175. 1827 [1 Jun 1825-Apr 1827]., non *Bidens grandiflora* Balb., *Cat. Pl. (Balbis)*, 1812: 19. 1812.

Etymology: dedicated to Robert Sweet (1783-1835) who validated the name proposed by Thomas Hogg (1777-1855) for this species.

Bidens tinctoria (Nutt.) Baill. ex Daydon (≡ *Calliopsis tinctoria* (Nutt.) DC. ≡ *Coreopsis tinctoria* Nutt. ≡ *Diplosastera tinctoria* (Nutt.) Tausch).

POACEAE

The submersion of the genera *Chaetopogon* Janch. and *Ammophila* Host respectively into *Agrostis* L. and *Calamagrostis* Adans. is made necessary according to the phylogenetic classification by Soreng *et al.* (2015, 2017). Regarding *Piptatherum* sect. *Virescentia* Roshev. ex Freitag (*P. paradoxum* and *P. virescens*), Romaschenko *et al.* (2012) studied evolution and systematics of Stipeae based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. They confirm that no doubt the two species in question lie among other old world taxa in the same clade as *Achnatherum bromoides* (L.) P.Beauv. and *A. calamagrostis* (L.) P.Beauv. (Romaschenko *et al.*, 2010), where *A. calamagrostis* represents the lectotype of its genus. In particular, *P. paradoxum* and *P. virescens* result to be sister of *A. bromoides* (85 bootstrap from the analysis of plastid data). Authors conclude by saying that «The sister relationship of *A. bromoides* and *Piptatherum* sect. *Virescentia* is more plausible since the taxa share dark and coriaceous lemmas with a blunt callus, persistent awns, and similar habitats.». Based on these data we propose to transfer *P. paradoxum* and *P. virescens* to the genus *Achnatherum*, as already suggested by Kellogg (2015: 217). Finally, *Trisetaria argentea* "(Vill.)" Banfi & Soldano (1996) is an invalid name as uncorrectly established referring to a non-existent Villars' basionym, therefore we propose again the same combination on the correct reference.

Achnatherum paradoxum (L.) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Agrostis paradoxa* L., *Sp. Pl.* 1: 62. 1753 [1 May 1753]. (≡ *Milium paradoxum* (L.) L. ≡ *Oryzopsis paradoxa* (L.) Nutt. ≡ *Piptatherum paradoxum* (L.) P.Beauv. ≡ *Stipa paradoxa* (L.) Raspail).

Achnatherum virescens (Trin.) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Urachne virescens* Trin., *Fund. Agrost. (Trinius)*: 110. 1820 [Jan 1820]. (≡ *Milium paradoxum* (L.) L. var. *virescens* (Trin.) Fiori ≡ *Milium virescens* (Trin.) Borbás ≡ *Oryzopsis paradoxa* (L.) Nutt. var. *virescens* (Trin.) K.Richt. ≡ *Oryzopsis virescens* (Trin.) Beck ≡ *Piptatherum virescens* (Trin.) Boiss.).

Agrostis linkii Banfi, Galasso & Bartolucci, **nom. nov.** Bas.: *Chaeturus fasciculatus* Link, *J. Bot. (Schrader)*, 2 (2): 313. 1800 [Apr 1800]. (≡ *Chaetopogon fasciculatus*

(Link) Hayek, non *Agrostis fasciculata* (Kunth) Roem. & Schult.).

Etymology: dedicated to Johann H. F. Link (1767-1851), author of the basionym.

Note: the genus *Chaeturus* Link [1799] is illegitimate because of the previous homonym *Chaiturus* (= *Chaeturus*) Willd. [1787] (Lamiaceae).

Agrostis linkii Banfi, Galasso & Bartolucci subsp. **prostrata** (Hack. & Lange) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Chaeturus prostratus* Hack. & Lange, *Vidensk. Naturhist. Foren. Kjøbenhavn*, 1877-1878: 223. 1878. (= *Chaetopogon fasciculatus* (Link) Hayek subsp. *prostratus* (Hack. & Lange) M.Lainz ≡ *Chaeturus fasciculatus* Link subsp. *prostratus* (Hack. & Lange) Paunero).

Calamagrostis arenaria (L.) Roth subsp. **arundinacea** (Husn.) Banfi, Galasso & Bartolucci, **comb. nov.** Bas.: *Ammophila arenaria* (L.) Link var. *arundinacea* Husn., *Graminées*, 1: 19. 1896 [May 1896]. (= *Ammophila arenaria* (L.) Link subsp. *arundinacea* (Husn.) H.Lindb.) (= *Psamma australis* Mabilie ≡ *Ammophila arenaria* (L.) Link subsp. *australis* (Mabilie) M.Lainz).

Note: the epithet *arundinacea* is due to Host (*Icon. Descr. Gram. Austriac.*, 4: 24 (pl. 41). 1809.), but it is illegitimate according to Art. 52.2.(e) of ICN. The same epithet was legitimately taken by Husnot 87 years later (Art. 58.1. of ICN). According to Art. 41.4. of ICN, it has to be treated as a new combination based on Husnot's name.

Trisetaria argentea (Willd.) Banfi, Galasso & Soldano, **comb. nov.** Bas.: *Avena argentea* Willd., *Enum. Pl.* [Willdenow] 1: 125. 1809 [Apr 1809]. (= *Trisetum argenteum* (Willd.) Roem. & Schult. ≡ *Trisetum distichophyllum* (Vill.) P.Beauv. var. *argenteum* (Willd.) Ducommun; – *Trisetaria argentea* Banfi & Soldano, nom. nud.).

ROSACEAE

For the horticultural hybrid between almond (*Prunus dulcis* (Mill.) D.A.Webb) and peach (*P. persica* (L.) Batsch), recently reported as casual alien to Italy (<<http://www.floraitaliae.actaplantarum.org/viewtopic.php?t=43473&p=278405#p278405>>, retrieved on 4 October 2017), after an exhaustive review of the available synonyms Rehder (1922) established the combination *Prunus ×amygdalo-persica* (Weston) Rehder. He noted that the most ancient binomial with priority is *Amygdalus amygdalo-persica* Weston [1770] which however lacks description, but, in his opinion, it is usable on the basis of an earlier [1768] Duhamel's name *Amygdalo-Persica* subsequently picked-up by Poiret to designate a rankless variant of *Amygdalus communis* L. Rehder adds: "If Weston's name should be rejected for the reason that it lacks a description, Schneider's *P. persico-amygdala* based on *Amygdalus Persico-amygdala* Reichenb. [1832] would be the correct name, for Schmidt's *A. hybrida* [1822] [...] cannot be transferred to *Prunus* on account of *Prunus hybrida Quetierii* Carr. (sic!) [...], a supposed hybrid between *Prunus Armeniaca* L. and *P. Persica* Batsch.". Actually, the obstacle due to Carrière's name (Mouillefert, 1892) does not exist according to Art. 23.1. of ICN; moreover Art. H.10.2. prevents the use of epithets made

by parental epithets united by hyphen considering them formulae, not true epithets. In our case this excludes any adoption of most reported synonyms including the Rehder's combination under *Prunus* (i.e., *amygdalo-persica*, *communi-persica*, and *persico-amygdala*), while allows us to recover the name of Schmidt *Amygdalus ×hybrida* as basionym.

Prunus ×hybrida (Schmidt) Galasso, Banfi & Bartolucci, **comb. nov.** Bas.: *Amygdalus hybrida* Schmidt (pro hybr.), *Österr. Allg. Baumz.*, 4: 27 (-28, pl. 207). 1822. (= *Amygdalus communis* L. var. *persicoides* Ser. ≡ *Prunus amygdalus* Batsch var. *persicoides* (Ser.) Koehne ≡ *P. ×persicoides* (Ser.) M.Vilm. & Bois = *P. dulcis* (Mill.) D.A.Webb ♀ × *P. persica* (L.) Batsch ♂; – *P. ×amygdalo-persica* (Weston) Rehder, nom. inv.).

SOLANACEAE

Three species are here involved: *Solanum aethiopicum* L. (scarlet eggplant), *S. macrocarpon* L. (gboma eggplant) and *S. melongena* L. (common eggplant). *Solanum anguivi* (Africa) is the wild ancestor of *S. aethiopicum* as highlighted for the first time by Lester & Niakan (1986), then confirmed by the following authors (e.g., Knapp *et al.*, 2013; Plazas *et al.*, 2014). About the descent of the crop *S. macrocarpon* from the wild *S. dasyphyllum* (Africa) the same is true as for the previous species (Knapp *et al.*, 2013; Plazas *et al.*, 2014). Finally, *S. insanum* (India) in the past has been forgotten and confused with other wild relatives of the Melongena group, especially *S. incanum* L.; it was also underestimated as the true ancestor of the common eggplant (Ranil *et al.*, 2017).

Solanum aethiopicum L. subsp. **anguivi** (Lam.) Banfi, Galasso & Bartolucci, **comb. nov.**, **stat. nov.** Bas.: *Solanum anguivi* Lam., *Tabl. Encycl.*, 2 (3, 1): 23. 1794 [10 Apr 1794].

Solanum macrocarpon L. subsp. **dasyphyllum** (Schumacher & Thonn.) Banfi, Galasso & Bartolucci, **comb. nov.**, **stat. nov.** Bas.: *Solanum dasyphyllum* Schumacher & Thonn., *Beskr. Guin. Pl.*: 126. 1827.

Solanum melongena L. subsp. **insanum** (L.) Banfi, Galasso & Bartolucci, **comb. nov.**, **stat. nov.** Bas.: *Solanum insanum* L., *Mant. Pl.*: 46. 1767 [15-31 Oct 1767]. (= *Solanum melongena* L. var. *insanum* (L.) Prain).

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