A new genus for *Papaver* sect. *Meconella* and new combinations in *Roemeria* (Papaveraceae) in Europe and the Mediterranean area

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Abstract - According to recent molecular phylogenetic studies the *Papaver* species belonging to *P.* sect. *Argemonidium* should be transferred in the genus *Roemeria*, and species of *P.* sect. *Meconella* should be treated as a distinct genus. Accordingly, the new genus *Oreomecon* is here established, seven new combinations are proposed and one name is typified. Furthermore, the correct names in *Roemeria* for the eleven, currently accepted, *Papaver* species in the Euro-Mediterranean area are provided, including nine new combinations.

Key words: Euro+Med, nomenclature, *Oreomecon*, taxonomy.

Riassunto - Un nuovo genere per *Papaver* sect. *Meconella* e nuove combinazioni in *Roemeria* (Papaveraceae) per l'Europa e l'area mediterranea.

In base ai recenti studi filogenetici molecolari, le specie di *Papaver* appartenenti a *P.* sect. *Argemonidium* vanno trasferite al genere *Roemeria*, mentre quelle di *P.* sect. *Meconella* devono essere trattate in un genere distinto. Di conseguenza viene qui istituito il nuovo genere *Oreomecon*, vengono proposte sette nuove combinazioni e viene tipificato un nome. Inoltre, vengono forniti i nomi corretti in *Roemeria* per le undici specie di *Papaver* attualmente accettate in area europeo-mediterranea, incluse nove nuove combinazioni.

Parole chiave: Euro+Med, nomenclatura, *Oreomecon*, tassonomia.

The phylogeny of the Papaveraceae family, in particular that concerning *Papaver* L. and related genera, has been clarified in its general lines (Kadereit *et al.*, 1997, 2011; Carolan *et al.*, 2006; Liu *et al.*, 2014). The studies by Kadereit *et al.* (2011) and Kadereit and Baldwin (2011) showed that *Stylomecon heterophylla* (Benth.) G.Taylor (California, NW-Mexico) and *Meconopsis cambrica* (L.) Vig. (Atlantic Europe) belong to the clade of *Papaver s.s.*, sister of the clade formed by *Meconopsis* Vig. + *Papaver* sect. *Meconella* Spach + *Papaver* sect. *Argemonidium* Spach + *Roemeria* Medik.

Regarding *Meconopsis*, Liu *et al.* (2014) note that the genus in its traditional meaning is diphyletic (clades I and V) and Grey-Wilson (2014) establishes the missing combinations for the species of clade V, suitably separated in the genus *Cathcartia* Hook.f. *Meconopsis cambrica*, now *Papaver cambricum* L., was initially considered the type of the genus *Meconopsis* having been the first species attributed by Viguier to the genus he created, but Grey-Wilson (2012) then requested and obtained (Applequist, 2013; Wilson, 2016; App. III of the International Code of Nomenclature [ICN], Turland *et al.*, 2018) the conservation of *Meconopsis* with a different type (*M. regia* G.Taylor) to definitively link the generic name to the species of Himalayan complex. The results of the phylogeny require that the species of the *Alpina* (*Meconella*) and *Argemonidium* sections together with those of the genus *Roemeria*, well represented in the Euro+Med territory, are removed from *Papaver* and settled in appropriate genera. "*Argemonidium*" (11 species) and *Roemeria* taken individually are paraphyletic, while together they form a monophylum which is recognized as a genus, which in this case is *Roemeria*.

We here propose new combinations for 9 species, since *Roemeria argemone* (L.) C.Morales, R.Mend. & Romero García is already available for *Papaver argemone* L. and *R. hispida* (Lam.) Stace has recently replaced *Papaver hybridum* L. (Stace, 2017). The case of *Papaver* sect. *Meconella* is different because here the establishment of a new genus is necessary as no name appears available at this rank, nor can names of infrageneric rank be recovered as they lack the requirements in accordance to the ICN provisions. In particular, the section *Meconella* cannot be elevated to a genus without changing its name as the genus *Meconella* Nutt. already exists (type: *M. oregana* Nutt.) including American species of a completely different lineage.

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Roemeria Medik., Ann. Bot. (Usteri) 1(3): 15. 1792.
Type: *Roemeria violacea* Medik., nom. illeg. [≡ *R. hybrida* (L.) DC.]
= *Papaver* sect. *Argemonidium* Spach ≡ *Papaver* sect. *Argemonorhoeades* Fedde, nom. illeg.
Type: *Papaver argemone* L.
Note. The following treatment is in agreement with Aghababjan (2011a).

Roemeria apula (Ten.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver apulum* Ten., Fl. Neapol. Prodr. App. 5: 16. 1826 ≡ *Papaver hybridum* var. *apulum* (Ten.) Trautv.
= *Papaver argemonoides* Ces.

Roemeria argemone (L.) C.Morales, R.Mend. & Romero García, Lagascalia 15(Extra): 184. 1988.
bas.: *Papaver argemone* L., Sp. Pl. 1: 506(-507). 1753.

Roemeria armenii (M.V.Agab.) Banfi, Bartolucci, J.-M. Tison & Galasso, **comb. nov.**
bas.: *Papaver armenii* M.V.Agab., Takhtajania 1: 41(-42, fig. 4). 2011.

Roemeria davisii (Kadereit) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver argemone* L. subsp. *davisii* Kadereit, Notes Roy. Bot. Gard. Edinburgh 44(1): 38. 1986 ≡ *Papaver davisii* (Kadereit) M.V.Agab.

Roemeria hispida (Lam.) Stace, New J. Bot. 7(1): 9. 2017.
bas.: *Papaver hispidum* Lam., Fl. Franç. (Lamarck) 3: 174. 1779.
= *Papaver hybridum* L.

Roemeria meiklei (Kadereit) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver argemone* L. subsp. *meiklei* Kadereit, Notes Roy. Bot. Gard. Edinburgh 44(1): 38. 1986 ≡ *Papaver meiklei* (Kadereit) M.V.Agab.

Roemeria minor (Boivin ex Bél.) Banfi, Bartolucci, J.-M. Tison & Galasso, **comb. nov.**
bas.: *Closterandra minor* Boivin ex Bél., Voy. Indes Or. [Bélanger] 4: pl. 12 fig. b. 1834-1836 ≡ *Papaver belangeri* Boiss., nom. illeg. ≡ *Papaver argemone* L. subsp. *belangeri* Takht. [1972] ≡ *Papaver argemone* L. subsp. *minus* (Boivin ex Bél.) Kadereit [1986], nom. superfl. ≡ *Papaver argemone* L. f. *belangeri* (Takht.) Parsa ≡ *Papaver minus* (Boivin ex Bél.) Meikle
= *Papaver desertorum* Grossh.

Roemeria nigrotincta (Fedde) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver nigrotinctum* Fedde (pro hybr.), Pflanzenr. (Engler) IV.104(40): 330. 1909 ≡ *Papaver argemone* L. subsp. *nigrotinctum* (Fedde) Kadereit

Roemeria ocellata (Woronow) Banfi, Bartolucci, J.-M. Tison & Galasso, **comb. nov.**
bas.: *Papaver ocellatum* Woronow, Izv. Kavkazsk. Muz. 11(3-4): 276. 1918 ≡ *Papaver pavoninum* subsp. *ocellatum* (Woronow) Kadereit
= *Papaver hybridum* var. *grandiflorum* Boiss.
= *Papaver hybridum* var. *microcarpum* N.Busch
= *Papaver ocellatum* var. *turcomanicum* Popov
= *Papaver pavoninum* var. *incornutum* Fedde
= *Papaver siculum* Guss. ≡ *Papaver hybridum* var. *siculum* (Guss.) Raimondo & Spadaro

Roemeria pavonina (Schrenk ex Fisch. & C.A.Mey.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver pavoninum* Schrenk ex Fisch. & C.A.Mey., Enum. Pl. Nov. [F.E.L. Fischer & C.A. Meyer] 2: 64(-65). 1842 [22 Oct 1842].
= *Papaver cornigerum* Stocks
= *Papaver pavoninum* var. *freynii* Fedde
– *Papaver pavoninum* C.A.Mey., Index Seminum [St. Petersburg (Petropolitanus)] 9: 82. 1843 [Dec 1842 publ. after 10 Feb 1843], isonym

Roemeria virchowii (Asch. & Sint. ex Boiss.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver virchowii* Asch. & Sint. ex Boiss., Fl. Orient. [Boissier] Suppl.: 23(-24). 1888.
= *P. virchowii* f. *paucisetosum* Fedde
– *P. virchowii* f. *genuinum* Fedde, nom. inval.

Oreomecon Banfi, Bartolucci, J.-M.Tison & Galasso, **gen. nov.**
bas.: *Papaver* sect. *Meconella* Spach, Hist. Nat. Vég. (Spach) 7: 19. 1838 ≡ *Papaver* [unranked] *Lasiotrachyphylla* Bernh. ≡ *Papaver* sect. *Lasiotrachyphylla* (Bernh.) Pfeiff.
Type: *Papaver alpinum* L.
Etymology: ὄρεο- (*oreo-*) stem of the genitive of ὄρος (*oros*), mountain, and μήκων (*mekon*), poppy.
= *Papaver* sect. *Scapiflora* Elkan, nom. illeg.
Type: *Papaver nudicaule* L.
Note. *Papaver* sect. *Meconella* consists of 24 (Rändel, 1974) to 30 (Carolan *et al*., 2006) species distributed over the entire circumboreal area, from the polar regions to the reliefs. Many of them represent geographical, topographical and local variants that differ in the combination of characters consistent at first glance (color of the petals, shape and size of the fruit, shape of the leaf divisions, development of the scape, hairiness), which, however, does not allow to draw acceptable taxonomic conclusions. The most studied species belong to the European territory (Arctic sector and southern reliefs). A phylogeny of the *P. alpinum* species complex addressed on a molecular and morphological basis (Schönswetter *et al.*, 2009) led to the conclusion that the species of this group (11 species according to Euro+Med) represent populational expressions of a single species defined by the authors as hypervariable and which taxonomically do not have even intraspecific relevance. The most western populations (Pyrenees, Spain) are an exception for which the authors propose to maintain the rank of subspecies [with the trinomial *P. alpinum* subsp. *lapeyrouseanum* (Gutermann) Kadereit]. In the present

transfer from *Papaver* to *Oreomecon*, last genus established here, we intend to take into consideration only the species present in Europe (native and alien) as reported in Euro+Med (Aghababjan, 2011b), as they are better known and largely phylogenetically resolved, including 5 Arctic entities and 1 South European orophyte with 2 subspecies.

Oreomecon alpina (L.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver alpinum* L., Sp. Pl. 1: 507. 1753.
= *Papaver alpinum* subsp. *ernesti-mayeri* Markgr. ≡ *Papaver ernesti-mayeri* (Markgr.) Wraber
= *Papaver alpinum* subsp. *tatricum* A.Nyár. ≡ *Papaver tatricum* (A.Nyár.) Ehrend.
= *Papaver alpinum* var. *occidentale* Markgr. ≡ *Papaver occidentale* (Markgr.) H.E.Hess & Landolt

Note. Some repertoires (eg Greuter *et al.*, 1989; IPNI, 2021) report as authors of this combination "H.E.Hess, Landolt & R.Hirzel"; the third volume, like all the others, of the work "Flora der Schweiz und angrenzender Gebiete" was published by all three of these authors (Hess *et al.*, 1972). However, as specified in the title page, Rosemarie Hirzel took care of the drawings and therefore is not to be included among the authors of the nomenclatural novelties.
= *Papaver aurantiacum* Loisel. ≡ *Papaver suaveolens* Lapeyr., nom. illeg.

Note. See what has been written about *Oreomecon alpina* subsp. *suaveolens*.
= *Papaver corona-sancti-stephani* Zapał. (published as *corona Sti Stephani* to be corrected in *corona-sancti-stephani* according to Arts 23.1 and 60.14 of the ICN)
= *Papaver kerneri* Hayek
= *Papaver pyrenaicum* subsp. *degenii* Urum. & Jáv. ≡ *Papaver degenii* (Urum. & Jáv.) Kuzmanov
= *Papaver rhaeticum* Leresche ex Gremli

Note. Leresche is generically thanked by Gremli (1881) without the diagnosis being unequivocally associated with him. Based on Art. 46.2 of the ICN, the authors of the species are therefore to be cited as "Leresche ex Gremli".
= *Papaver sendtneri* A.Kern. ex Hayek
= *Papaver victoris* Škornik & Wraber

Oreomecon alpina subsp. ***suaveolens*** (P.Fourn.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver pyrenaicum* subsp. *suaveolens* P.Fourn., Quatre Fl. France 4: 372. 1936 ≡ *Papaver alpinum* subsp. *suaveolens* (P.Fourn.) Rändel ≡ *Papaver alpinum* subsp. *suaveolens* (P.Fourn.) O.Bolòs & Vigo, isonym

Type (lectotype, designated here): *Papaver alpinum*? Lin. sommets elevés, fentes des rochers. Mail du Crystal, Cambredases, Pic de Midy, Erezlidtz, Houle Marboré, *Lapeyrouse s.n* [before 1813] (TLM [digital image!], bottom-right individual, Fig. 1) [herbarium acronyms follow Index Herbariorum, 2021]
=? *Argemone pyrenaica* L. ≡ *Papaver pyrenaicum* (L.) Willd.

Note. *Papaver pyrenaicum* (L.) Willd. is based on *Argemone pyrenaica* L. quoted from Pyrenees ("Habitat in Pyrenaeis. Tournefort"). Since only subsp. *suaveolens* does exist in this region, the epithet *pyrenaicum* should be prioritary, if its type indeed comes from Pyrenees and belongs to *P.* sect. *Meconella*, but it is not designated (Jarvis, 2007). We were not able to trace in P the Tournefort's original material, but, anyway, the presence of such a collection in this herbarium is very uncertain. Only a careful investigation in situ at P and a conservation process (likely with neotypification) will allow to fix the sense of *P. pyrenaicum*. However, in conformity with predominant usage of a name, a proposal for rejection would be easier and more useful.
– *Papaver suaveolens* sensu Lapeyr.
– *Papaver lapeyrouseanum* Gutermann, nom. inval. (published as *lapeyrousianum* to be corrected in *lapeyrouseanum* according to Art. 60.9 of the ICN)
= *Papaver lapeyrouseanum* Gutermann ex Greuter & Burdet (published as *lapeyrousianum* to be corrected in *lapeyrouseanum* according to Art. 60.9 of the ICN) ≡ *Papaver alpinum* subsp. *lapeyrouseanum* (Gutermann ex Greuter & Burdet) Kerguélen
= *Papaver suaveolens* var. *endressii* Asch. ≡ *Papaver lapeyrouseanum* subsp. *endressii* (Asch.) Greuter & Burdet

Note. *Papaver suaveolens* Lapeyr. (Lapeyrouse, 1818) is illegitimate because the author listed among the synonyms *P. aurantiacum* Loisel., a species described from Mont Ventoux (Loiseleur-Deslongchamps, 1809) that automatically typifies the name of Lapeyrouse (Art. 7.5 of the ICN). Gutermann (Gutermann *et al.*, 1974) planned to remedy by creating a replacement name (Art. 6.11 of the ICN), *P. lapeyrouseanum* Gutermann. However, the latter is actually the name of a new species (Art. 58.1 of the ICN) not validly published as the type was not indicated (Art. 40.1 of the ICN). Finally, Greuter & Burdet (Greuter, 1981) validly published the name *P. lapeyrouseanum* Gutermann ex Greuter & Burdet. However, when Fournier (1936) re-used the final epithet at a different rank for a taxon restricted to the Pyrenees only, implicitly excluded *P. aurantiacum* (from Mont Ventoux). So *P. pyrenaicum* subsp. *suaveolens* P.Fourn. is not to be treated as a replacement name with the same type as *P. suaveolens*, but as the name of a new taxon with a different type (Art. 58.1 of the ICN), accompanied by an indirect reference to the previously and effectively published Latin description by Lapeyrouse (Arts. 39.1, 38.13 and 38.14 Ex. 22 of the ICN). According to Art. 7.8 of the ICN, a name of a new taxon validly published solely by reference to a previously and effectively published description or diagnosis is to be typified by an element selected from the entire context of the validating description or diagnosis. We traced in TLM two herbarium specimens collected by Lapeyrouse in several Pyrenean localities. These specimens were collected surely before 1813 as the informations on the labels were reported exactly in Lapeyrouse (1813).

Oreomecon anomala (Fedde) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver anomalum* Fedde, Pflanzenr. (Engler) IV.104(40): 384(-385). 1909 ≡ *Papaver nudicaule* subsp. *anomalum* (Fedde) Vorosch.

Fig. 1 - Lectotype (bottom-right individual) of the name *Papaver pyrenaicum* subsp. *suaveolens* P.Fourn., preserved in TLM (reproduced with permission of the Herbarium, Muséum d'Histoire Naturelle de Toulouse, France). Lectotipo (individuo in basso a destra) del nome *Papaver pyrenaicum* subsp. *suaveolens* P.Fourn., conservato in TLM (riprodotto col permesso dell'Herbarium, Muséum d'Histoire Naturelle de Toulouse, Francia).

Oreomecon crocea (Ledeb.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver croceum* Ledeb., Fl. Altaic. [Ledebour] 2: 271. 1830.

Oreomecon miyabeana (Tatew.) Banfi, Bartolucci, J.-M. Tison & Galasso, **comb. nov.**
bas.: *Papaver miyabeanum* Tatew., Trans. Sapporo Nat. Hist. Soc. 14(4): 259. 1936 ≡ *Papaver nudicaule* var. *shimshirense* Miyabe & Tatew.

Oreomecon nudicaulis (L.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver nudicaule* L., Sp. Pl. 1: 507. 1753.

Oreomecon radicata (Rottb.) Banfi, Bartolucci, J.-M.Tison & Galasso, **comb. nov.**
bas.: *Papaver radicatum* Rottb., Skr. Kiøbenhavnske Selsk. Laerd. Elsk. 10: 455 (pl. 8 fig. 24). 1770 ≡ *Papaver nudicaule* subsp. *radicatum* (Rottb.) Fedde ≡ *Papaver nudicaule* var. *radicatum* (Rottb.) DC.

Key to the genera *Oreomecon*, *Papaver*, and *Roemeria*

1 Annuals
2 Basal internode above leaf rosette robust, longer than overlying internodes, the node above producing a sort of second leaf rosette from which, when present, lateral stems branch off; capsule ovoid to linear, usually bristly ..... ***Roemeria***
2 Basal internode similar to the others, leaves never forming secondary rosettes, branches arranged along the stem; capsule never linear, glabrous ..... ***Papaver*** p.p.
1 Perennials
3 Leaves also on stems; capsule glabrous .. ***Papaver*** p.p.
3 Leaves only basal; capsule bristly ..... ***Oreomecon***

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