

**Validation of *Colchicum erdalii* and *C. osmaniyense*
(Colchicaceae) and correction the name of
Paeonia × *kayae* (Paeoniaceae)**

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Abstract: *Colchicum erdalii* and *C. osmaniyense* were described as the new species and *nothosubsp.nov.* of the genus *Paeonia* as a natural hybrid from Turkey. However, the new species and the new hybrid names are invalid because they are not in accordance to some provisions of the International Code of Botanical Nomenclature. Herein, corrected and validated names are provided.

Key words: *Colchicum erdalii*, *Colchicum osmaniyense*, *Paeonia* × *nothosubsp. kayae*, Turkey, validation

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Introduction

The family Colchicaceae is represented by the genus *Colchicum* in Turkey with about 50 taxa. Recently more 3 species have been added to the country flora based on huge collection kept in the Geophyte Research Garden in Yalova, living specimens collected by Erdal Kaya. Some specimens collected in fruiting stage and all collected specimens planted to the Geophyte Garden in Yalova for research and cultivation. When they are flowered some specimens have been identified as a new species and described by N.Özhatay and E.Kaya. Two of them collected in fruiting time and this date cited on the type as collected date then flowering date and flowering specimens cited on the sheet. Only flowering specimen present on the herbarium sheet but the collected date also mentioned. It seems to be two different gatherings as type specimens then according to IPNI they are invalid name.

The other new taxon belongs to the family Paeoniaceae and it is a natural hybrid. The genus *Paeonia* other important plants for horticulture, 9 taxa occur in Turkey. A natural hybrid is described collected from Kaz Dağı and named but its name not correct according to the International Code of Botanical Nomenclature (McNeill et al., 2012).

The name *Paeonia × kayae* is valid, but is incorrect. Herein corrected and validated names are provided.

COLCHICUM

Two new species of the genus *Colchicum* L. for Turkey have been described. However, the new species are invalid because they are not in accordance to the some provisions of the International Code of Botanical Nomenclature (McNeill et al., 2012).

Below the validation of two *Colchicum* species are presented:

***Colchicum erdalii* N.Özhatay sp.nov.**

Based on: *Colchicum erdalii* N.Özhatay (2014: 536) *nom.inval.* (because of two gatherings were seem to be as designated contrary to Art.37.2).

Type: Turkey, B7 Erzincan: Kemaliye, Sırakonak village, dry rocky slopes, 1740 m, 20.iii.2009, E.Kaya 591 (holotype ISTE 96179!).

Note: Diagnosis and the description of the species are given by Özhatay & Kaya (2014). Three new *Colchicum* species from Anatolia in E.Kaya Geophytes of Turkey, vol 3: 536.

***Colchicum osmaniyense* N.Özhatay et E.Kaya sp.nov.**

Based on: *Colchicum osmaniyense* N.Özhatay & E.Kaya (2014: 537) *nom.inval.* (because of two gatherings were seem to be as designated contrary to Art. 37.2).

Type: Turkey, C6 Osmaniye: Hasanbeyli, Kemiklikaya, 876 m, 20.i.2008, dry rocky places, E.Kaya C.8001 (holotype ISTE 104799!).

Note: Diagnosis and the description of the species are given by Özhatay

& Kaya (2014). Three new *Colchicum* species from Anatolia in E.Kaya, Geophytes of Turkey, vol 3: 537.

PAEONIA

The genus *Paeonia* is represented by 9 taxa in Turkey all belong to sect. *Paeonia*. A taxonomic treatment of *Paeonia arietina* G.Anderson (= *P.mascula* (L.) Mill. subsp. *arietina* (G.Anderson) Cullen & Heywood has been controversial (Hong De Yuan 2010). The specimens collected from Kaz Dağı where is an important plant area and the center for this genus in Turkey with 4 *Peonia* taxa. Morphologically collected specimens intermediate between *P. arietina* and *P. mascula* subsp. *bodurii* N.Özhatay and thus it is believed to be a hybrid of these two taxa. It is similar to *P. mascula* subsp. *bodurii* in appearance morphologically having much bigger and bicoloured flowers. It was published as *Paeonia* × *kayae* N.Özhatay (Demirci et al., 2014). However, in accordance to International Code of Botanical Nomenclature Article H.5. the new name *Paeonia* × *kayae* is valid, but is incorrect. In this paper hybrid name is corrected as follows:

***P. × mascula* (L.) Mill. nothosubsp. *kayae* N.Özhatay nothosubsp. nov.**

Basionym: *Paeonia* × *kayae* N.Özhatay, Türk. Geofitleri 3: 547 (2014).

Type: Turkey, B1 Çanakkale: Yenice, Kalkım, Aşağıçavuş köyü, Mursel mevkii, 15.vi.2005, E. Kaya 1703 (Holotype ISTE 84834!).

Note: Diagnosis and the description of the species are given by S. Demirci, N.Özhatay, B. Gürdal, E. Kaya (2014). Contribution to the Turkish geophytes flora in E.Kaya, Geophytes of Turkey, vol 3: 547.

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