

A NEW COMBINATION IN *LUPINUS SULPHUREUS* (FABACEAE)

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ABSTRACT

The new combination *Lupinus sulphureus* Douglas var. **bingenensis** (Suksd.) Gandhi & Vincent is made here to accommodate *L. bingenensis* Suksd. and *L. bingenensis* var. *subsaccatus* Suksd. at varietal rank in *L. sulphureus*, necessitated by the priority of the varietal autonym *L. bingenensis* var. *bingenensis* from 1923.

The genus *Lupinus* L. (Fabaceae), commonly known as lupin or lupine, has about 220 species (Mabberley, 2017: 544), and its center of diversity is in the New World, with a small number of species occurring in the Mediterranean and tropical African highland regions. Approximately 90 *Lupinus* species are known to occur in the USA (Isely 1998).

Suksdorf (1923: 12–13) published, among others, the new species *Lupinus bingenensis* Suksd. and its var. *subsaccatus* Suksd. As per Article 26.3, the legitimate varietal name *L. bingenensis* var. *subsaccatus* automatically created the autonym *L. bingenensis* var. *bingenensis* (in 1923). Smith (1924: 305) added a new varietal name: *L. bingenensis* var. *dubius* C.P. Sm. Subsequently, Suksdorf (1927: 24) published two more varietal names in *L. bingenensis*: var. *albus* Suksd. and var. *roseus* Suksd.

Smith (1939) described several new varieties in *Lupinus* (including *L. sericeus* Pursh var. *egglestonianus* C.P. Sm.). He (pp. 111–112) transferred *L. bingenensis* and its var. *dubius* to *L. leucopsis* J. Agardh at the rank of variety and made the two new combinations, viz., *L. leucopsis* var. *bingenensis* (Suksd.) C.P. Sm. and var. *dubius* (C.P. Sm.) C.P. Sm.

For the forthcoming volume of *Flora of North America North of Mexico* on Fabaceae, the above varietal names are being treated, along with *Lupinus sericeus* Pursh var. *egglestonianus* C.P. Sm. (Smith, 1939: 104) as representing a single taxon at the rank of variety in *L. sulphureus* Douglas ex Hooker. In this regard, the priority of the varietal names is analyzed below.

It is evident from the dates of the varietal names that two varietal names have priority over others, viz., *Lupinus bingenensis* var. *subsaccatus* and the autonym *L. bingenensis* var. *bingenensis* (both created in 1923).

According to the Shenzhen Code (International Code of Nomenclature for Algae, Fungi, and Plants (ICNAPF)) Article 11.6, an autonym has priority over the name at the same rank that established it (Turland et al. 2018: 36). This rule determines the correct name when *Lupinus bingenensis* Suksd. and *L. bingenensis* var. *subsaccatus* Suksd. are treated together as one taxon at the rank of variety in *L. sulphureus*.

Since the varietal autonym *Lupinus bingenensis* var. *bingenensis* has priority over *L. bingenensis* var. *subsaccatus*, the correct varietal name in *L. sulphureus* must be *L. sulphureus* var.

bingenensis. Application of the Code necessitates a new combination at the rank of variety in *L. sulphureus* as *L. sulphureus* var. *bingenensis*. Accordingly, the combination is made here.

LUPINUS SULPHUREUS Douglas var. **BINGENENSIS** (Suksd.) Gandhi & Vincent, **comb. & stat. nov.** *Lupinus bingenensis* Suksd., Werdenda 1: 12. 1923. *Lupinus bingenensis* Suksd. var. *bingenensis* (autonym created in Werdenda 1: 13. 1923). *Lupinus leucopsis* J. Agardh var. *bingenensis* (Suksd.) C.P. Sm., Spec. Lupinorum 112. 1939. **LECTOTYPE** (designated by C.P. Smith, Spec. Lupinorum 112. 1939): **USA. Washington**, Klickitat Co.: Zwischen zerstreuten Baumen an einem trockenen Hugel bei Bingen, 24 Apr, 12 Jun 1905, *W.N. Suksdorf 5036* (WS; isoelectotypes: CAS!, DAO!, GH!, K!, NY!, OSC!, PH!, US!, WTU). Note: both dates are printed on the label.

Lupinus bingenensis var. *subsaccatus* Suksd., Werdenda 1: 13. 1923. *Lupinus sulphureus* var. *subsaccatus* (Suksd.) C.L. Hitchc. in C.L. Hitchcock et al., Vasc. Pl. Pacif. N. W. 3: 330. 1961. **LECTOTYPE** (here designated): **USA. Washington**. Klickitat Co.: Sie Wurde am steilen, sonnigen Abhang oben am Bingenberge (etwa 600 m), bei Bingen gesammelt, 25 May 1923, *W.N. Suksdorf 11405* (WS; isoelectotypes: BM!, GH!, OSC!, PH!, RSA!, US!, WTU).

Lupinus bingenensis var. *dubius* C.P. Sm., Bull. Torrey Bot. Club 51: 305. 1924. *Lupinus leucopsis* var. *dubius* (C.P. Sm.) C.P. Sm., Spec. Lupinorum 111. 1939. **TYPE: USA. Washington**. Benton Co.: Prosser, 27 May 1903, *J.S. Cotton 1106* (holotype: WS).

Lupinus bingenensis var. *albus* Suksd., Werdenda 1: 24. 1927. **LECTOTYPE** (here designated): **USA. Washington**. Klickitat Co.: *s.d.*, *W.N. Suksdorf 10191* (WS; isoelectotypes: BM!, GH!, PH!, RM!, RSA!, US!, WTU).

Lupinus bingenensis var. *roseus* Suksd., Werdenda 1: 24. 1927. **LECTOTYPE** (here designated): **USA. Washington**. Klickitat Co.: *s.d.*, *W.N. Suksdorf 11855* (WS; isoelectotypes: BM!, RSA!, US!, WTU).

Lupinus sericeus Pursh var. *egglestonianus* C.P. Sm., Spec. Lupinorum 104. 1939. **TYPE: USA. Oregon**. Sherman Co.: Grass Valley, *s.d.*, *C.P. Smith 35127* (holotype: DS, housed at CAS; isotypes: CAS, DAO!, UMO).

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