

Novae Gesneriaceae Neotropicarum VII: new combinations.

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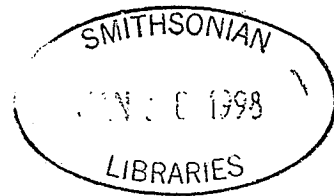
**Columnea, Dalbergaria, Ecuador, Panama, Paradrymonia, Pentadenia,
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Novae Gesneriaceae Neotropicarum VII: New Combinations

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ABSTRACT. Study of Gesneriaceae for the *Flora of Ecuador* and the *Catalogue of the Vascular Plants of Ecuador* has shown that some recently published new species need to be transferred with new combinations in *Columnea*: *C. filifera*, *C. katzensteini*, *C. mastersonii*, *C. medicinalis*, *C. ornata*, and *C. tandapiana*, or included as synonyms of previously published species.

In early 1993 we published a revision of the genus *Columnea* for Ecuador (Kvist & Skog, 1993). While the 1993 paper was delayed in press by the unfortunate occurrence of Hurricane Iniki in Hawaii, another paper appeared (Wiehler, 1992) that dealt in part with some of the same species that we were describing as new, with names for some of these species under generic names that we consider to be synonyms of *Columnea*. Therefore, we are here making new combinations for some of the species published in 1992 just prior to our publication. In 1995 additional new species of *Columnea* and other genera were published by Wiehler, along with further discussion and citation of additional specimens for some of the species published as new in his 1992 paper. We are here making new transfers into *Columnea* for some of the species occurring in Ecuador and nearby countries published by Wiehler in 1992 and 1995. In most cases we have not seen the holotypes or isotypes because so far as we can determine the specimens have not yet been distributed from GES. However, some of the specimens that we cite as types or representative material in our 1993 paper were cited by Wiehler in his 1992 and 1995 papers. In addition, some of the specimens Wiehler cited in his papers we had also seen. For some of the other species of which we have not seen the types, we are confident from our reading of the descriptions that the species described belong to *Columnea* or other genera and are here making the transfers or new combinations.

Still other species from these papers require future study before we can determine their status.

Some of the new species published by Wiehler in 1992 had been transferred to *Columnea* in the interim before the 1995 papers appeared. However, no mention is made by Wiehler (1995a, 1995b) of the new species or combinations published in 1993 by Smith and Skog or in 1994 by Smith.

Columnea filifera (Wiehler) L. E. Skog & L. P. Kvist, comb. nov. Basionym: *Dalbergaria filifera* Wiehler, *Phytologia* 73: 224. 1992; *Gesneriana* 1: 39. 1995. TYPE: Ecuador. Esmeraldas: near new road from Lita and Alto Tambo towards San Lorenzo, *Wiehler & GRF Expedition 9033* (holotype, GES not seen; isotypes, QCA, US none seen).

Columnea fililoba L. P. Kvist & L. E. Skog, *Allertonia* 6: 356. 1993. TYPE: Ecuador. Carchi: San Marcos, *Kvist, Barfod & Nissen 48997* (holotype, AAU; isotypes, QCA, QCNE, US).

Wiehler (1995a: 39) included our 1993 species as a synonym under his *Dalbergaria filifera*. We agree that the species are synonymous and are therefore making a new combination in *Columnea*.

Columnea katzensteini (Wiehler) L. E. Skog & L. P. Kvist, comb. nov. Basionym: *Pentadenia katzensteini* Wiehler, *Phytologia* 73: 235. 1992; *Gesneriana* 1: 75. 1995. TYPE: Ecuador. Morona-Santiago: Cordillera del Boliche, ca. 60 km from Limón, *Wiehler & GRF Expedition 88128* (holotype, GES not seen; isotypes, F, K, MO, NY, QCA, US none seen).

Columnea lavandulacea L. P. Kvist & L. E. Skog, *Allertonia* 6: 387. 1993. TYPE: Ecuador. Pichincha: Quitto-Santo Domingo de los Colorados road, *Kvist & Barfod 49066* (holotype, AAU).

Duplicates of a specimen cited by Wiehler (1995a: 75) were seen and cited by us as paratypes

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(*Steyermark 52572* (F, MO, US)) of *Columnnea lavandulacea*, which he cited as a synonym of *Pentadenia katzensteinii*. We agree that the species are the same and are here making a new combination in *Columnnea*.

Columnnea mastersonii (Wiehler) L. E. Skog & L. P. Kvist, comb. nov. Basionym: *Dalbergaria mastersonii* Wiehler, *Phytologia* 73: 225. 1992; *Gesneriana* 1: 43. 1995. TYPE: Ecuador. Pichincha: cloud forest of Tandápi, near village of Cornejo Astorga (Tandápi), *Wiehler & Masterson 7968* (holotype, GES not seen; isotypes, SEL, NY not seen, QCA not seen, U not seen, US not seen).

Columnnea cinerea L. P. Kvist & L. E. Skog, *Allertonia* 6: 351. 1993. TYPE: Ecuador. Pichincha: along Río Guayllabamba, Nuevo Azuay, *Holm-Nielsen, Jaramillo & Coello 24587* (holotype, AAU; isotype, US).

Some specimens cited by Wiehler (1995a: 43) were seen and cited by us as paratypes: *Gentry & Schupp 26651* (MO, US). In addition, *Columnnea cinerea* was included as a synonym of *Dalbergaria mastersonii* by Wiehler (1995a). We saw an isotype of *D. mastersonii* from SEL and had included it as a paratype in our paper in 1993, therefore we are making a new combination in *Columnnea*.

Columnnea medicinalis (Wiehler) L. E. Skog & L. P. Kvist, comb. nov. Basionym: *Dalbergaria medicinalis* Wiehler, *Phytologia* 73: 226. 1992; *Gesneriana* 1: 45. 1995. TYPE: Ecuador. Pichincha: above Chiriboga, on old road from Quito to Santo Domingo, *Wiehler & GRF Expedition 88215* (holotype, GES not seen; isotypes, K, MO, NY, QCA, SEL, US none seen).

Columnnea densibracteata L. P. Kvist & L. E. Skog, *Allertonia* 6: 352. 1993. TYPE: Ecuador. Azuay: Chacanco-Molleturo road, between Río Blanco and Río Norcay, *Steyermark 52826* (holotype, US; isotype, F).

Some of the specimens cited by Wiehler (1995a: 45) had already been included by us either as the type of *Columnnea densibracteata* (*Steyermark 52826*) or as paratypes: *Mexia 8412* (MO, U, US). Our species, *Columnnea densibracteata*, was included as a synonym of *Dalbergaria medicinalis* by Wiehler.

Columnnea ornata (Wiehler) L. E. Skog & L. P. Kvist, comb. nov. Basionym: *Dalbergaria ornata* Wiehler, *Phytologia* 73: 227. 1992; *Gesneriana* 1: 47. 1995. TYPE: Cultivated material grown in GRF greenhouses as G-2665 from live material collected in Costa Rica by

John Hall in 1979, *Wiehler 87105* (holotype, GES not seen; isotypes, CR, SEL none seen).

Although *Columnnea ornata* is not from Ecuador, examination of specimens cited by Wiehler (1995a: 47) as additional material (*Skutch 4780* (F, US)) shows this species to be *Columnnea*, and we make a new combination in *Columnnea* here. An additional collection near the site of the Skutch collection at ca. 1 mile beyond the divide between San Isidro del General and the coastal town of Dominical, 900 m, Prov. San José, Costa Rica, *Croat 35314* (MO, US) is this same species.

Columnnea tandapiana (Wiehler) L. E. Skog & L. P. Kvist, comb. nov. Basionym: *Pentadenia tandapiana* Wiehler, *Phytologia* 73: 238. 1992; *Gesneriana* 1: 84. 1995. TYPE: Ecuador. Pichincha: 7 km from San Miguel de los Bancos on road to Mindo, *Wiehler & GRF Expedition 90133* (holotype, GES not seen; isotypes, QCA, US none seen).

Columnnea inconspicua L. P. Kvist & L. E. Skog, *Allertonia* 6: 385. 1993. *Pentadenia inconspicua* (L. P. Kvist & L. E. Skog) Wiehler, *Gesneriana* 1: 122. 1995. TYPE: Ecuador. Pichincha: Tandápi, confluence between Río Tandápi with Río Pilatón, *Sparre 17761* (holotype, S).

It is unclear to us what Wiehler intended to do with *Columnnea inconspicua* for on p. 84 of his (1995a) publication the species was included as a synonym of *Pentadenia tandapiana* Wiehler, but on p. 122 (Wiehler, 1995b) the species was cited as the basionym of a new combination in *Pentadenia*. Since the holotype of *Columnnea inconspicua* was included among specimens examined for *Pentadenia tandapiana*, we have included the synonym there.

Some of the names that appear in the 1992 and 1995 Wiehler publications will be included in the *Flora of Ecuador*, the *Catalogue of the Vascular Plants of Ecuador*, and elsewhere as synonyms of previously published taxa. We list these names below and comment on those taxa being included as heterotypic synonyms.

Columnnea filipendula Wiehler, *Phytologia* 73: 222. 1992; *Gesneriana* 1: 33. 1995 = *Columnnea rubricaulis* Standley, *Field Mus. Publ. Bot.* 17: 393. 1938.

Both *Columnnea filipendula* and *C. rubricaulis* were originally described from nearby localities in Honduras, and it is remarkable that in the protologue Wiehler did not compare his new species with *C. rubricaulis*, instead comparing *C. filipen-*

dula with *C. linearis* Oersted from Costa Rica, and *C. purpusii* Standley and *C. erythrophaea* Decaisne both described from Mexico. The ternate leaves and slender pedicels of *C. filipendula* can also be seen in specimens of *C. rubricaulis* from Honduras and Nicaragua, and although no examples of the type specimen have been seen by us, no characters in the description of *C. filipendula* appear to distinguish the species from numerous collections of *C. rubricaulis*. The first author recently traveled to Honduras and saw *C. rubricaulis* in La Muralla National Park growing at a similar altitude and in a similar habitat as described for *C. filipendula*, reinforcing the belief that the species are synonymous.

Dalbergaria albiflora (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea albiflora* L. P. Kvist & L. E. Skog, Allertonia 6: 348. 1993.

Dalbergaria cappilosa [sic] (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea capillosa* L. P. Kvist & L. E. Skog, Allertonia 6: 349. 1993.

Dalbergaria evolvens Wiehler, Phytologia 73: 223. 1992; Gesneriana 1: 37. 1995 = *Columnnea guttata* Poeppig, in Poeppig & Endlicher, Nov. Gen. et Sp. Pl. 3: 1. 1840.

We have compared the description of *Dalbergaria evolvens* with the holotype of *Columnnea guttata* (Poeppig D1481 at W), as well as other specimens of the species, and believe that *D. evolvens* falls within the limits of the older taxon. We had already in 1993 included as a synonym of *C. guttata*, *D. madisonii* Wiehler with which Wiehler compared his new species. *Columnnea guttata*, like *D. evolvens*, has leaves with contrasting red tips, nearly sessile flowers with similar calyx lobes, and an unequal corolla limb, among other similar characters. Both species are known from Napo province in Ecuador, although *C. guttata* was originally described from Peru.

Dalbergaria fuscihirta (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea fuscihirta* L. P. Kvist & L. E. Skog, Allertonia 6: 358. 1993.

Dalbergaria gigantifolia (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea gigantifolia* L. P. Kvist & L. E. Skog, Allertonia 6: 360. 1993.

Dalbergaria incredibilis (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 43. 1995 = *Columnnea incredibilis* L. P. Kvist & L. E. Skog, Nordic J. Bot. 8: 253. 1988.

Dalbergaria longinervosa (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea longinervosa* L. P. Kvist & L. E. Skog, Allertonia 6: 363. 1993.

Dalbergaria nematoloba (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea nematoloba* L. P. Kvist & L. E. Skog, Brittonia 44: 479. 1992.

Dalbergaria purpurimarginata (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 121. 1995 = *Columnnea purpurimarginata* L. P. Kvist & L. E. Skog, Allertonia 6: 365. 1993.

Dalbergaria rubibracteata (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 122. 1995 = *Columnnea rubibracteata* L. P. Kvist & L. E. Skog, Allertonia 6: 368. 1993.

Dalbergaria variabilis Wiehler, Gesneriana 1: 51. 1995 = *Columnnea rubriacuta* (Wiehler) L. P. Kvist & L. E. Skog, Allertonia 6: 367. 1993.

Although we have seen neither the type specimens of *Dalbergaria variabilis*, nor some of the additional specimens examined cited with this species as being at US (apparently not yet distributed from GES), a few that were cited had been seen by us and annotated before our 1993 publication as *Columnnea rubriacuta*. Based on the specimens we have seen and the description of *D. variabilis*, we believe that this species is a synonym of *C. rubriacuta*.

Pentadenia ovatifolia (L. P. Kvist & L. E. Skog) Wiehler, Gesneriana 1: 122. 1995 = *Columnnea ovatifolia* L. P. Kvist & L. E. Skog, Allertonia 6: 393. 1993.

Pentadenia hypocrytantha Wiehler, Phytologia 73: 234. 1992; Gesneriana 1: 74. 1995 = *Columnnea hypocrytantha* (Wiehler) J. F. Smith & L. E. Skog, Novon 3: 190. 1993.

Pentadenia manabiana Wiehler, Phytologia 73: 236. 1992; Gesneriana 1: 77. 1995 = *Columnnea manabiana* (Wiehler) J. F. Smith & L. E. Skog, Novon 3: 189. 1993.

Pentadenia rileyi Wiehler, Phytologia 73: 236. 1992; Gesneriana 1: 79. 1995 = *Columnnea rileyi* (Wiehler) J. F. Smith, Syst. Bot. Monogr. 44: 68. 1994.

Pentadenia rubriacuta Wiehler, Phytologia 73: 237. 1992; Gesneriana 1: 81. 1995 (not *Columnnea rubriacuta* L. P. Kvist & L. E. Skog) = *Columnnea spathulata* Mansfeld, Notizbl. Bot. Gard. Berlin-Dahlem 14(121): 37. 1938.

Again, we have not seen any of the type specimens as they probably have not yet been distributed from GES. However, of the five collections cited as additional material examined for *Pentadenia*

rubriacuta, four of the collections had previously been seen by us, and were cited by Smith (1994) as representing *Columnnea spathulata*.

Rhoogeton panamensis Wiehler, *Phytologia* 73: 239. 1992; *Gesneriana* 1: 88. 1995 = *Paradrymonia pedunculata* L. E. Skog, *Brittonia* 30: 325. 1978.

Living material of this taxon and source of the type specimens has been in cultivation since 1978. We have seen and identified living plants as *Paradrymonia pedunculata*, which has a range from eastern Costa Rica to southern Chocó in Colombia and is well within the range of the genus *Paradrymonia*. The genus *Rhoogeton* has a range apparently restricted to the Guayana highlands of Venezuela and Guyana. An additional specimen, "Biolley 343 or Pittier & Durand 2654," cited by Wiehler as being at US has not been found, but *Biolley 2654* at BR, believed to be part of the same gathering, was seen and identified as *Paradrymonia pedunculata*.

Trichantha fimbriicalyx (L. P. Kvist & L. E. Skog) Wiehler, *Gesneriana* 1: 122. 1995 = *Columnnea fimbriicalyx* L. P. Kvist & L. E. Skog, *Allertonia* 6: 373. 1993.

Trichantha laevis (L. P. Kvist & L. E. Skog) Wiehler, *Gesneriana* 1: 122. 1995 = *Columnnea laevis* L. P. Kvist & L. E. Skog, *Allertonia* 6: 376. 1993.

Trichantha minutiflora (L. P. Kvist & L. E. Skog) Wiehler, *Gesneriana* 1: 122. 1995 = *Columnnea minutiflora* L. P. Kvist & L. E. Skog, *Allertonia* 6: 379. 1993.

Trichantha rubricalyx (L. P. Kvist & L. E. Skog) Wiehler, *Gesneriana* 1: 122. 1995 = *Columnnea rubricalyx* L. P. Kvist & L. E. Skog, *Allertonia* 6: 380. 1993.

Trichantha tenella Wiehler, *Gesneriana* 1: 95. 1995 = *Columnnea tenella* L. P. Kvist & L. E. Skog, *Allertonia* 6: 380. 1993.

This last species requires some discussion and clarification as it has the same epithet as a previ-

ously described species of *Columnnea*. *Columnnea tenella* L. P. Kvist & L. E. Skog was published in 1993 as a new name for *Trichantha gracilis* Wiehler (*Selbyana* 7: 339. 1984), not *Columnnea gracilis* (Martius) O. Kuntze [basionym: *Hypocyrra gracilis* (Martius) Martius; = *Codonanthe gracilis* (Martius) Hanstein], since the epithet could not be transferred to *Columnnea*. The new species, *Trichantha tenella* Wiehler, is based on a different type from *Trichantha gracilis* Wiehler and *Columnnea tenella* L. P. Kvist & L. E. Skog. We believe *Trichantha tenella* Wiehler to be a synonym of our earlier *Columnnea tenella* L. P. Kvist & L. E. Skog. Although we have not seen the holotype of *Trichantha tenella* Wiehler, one of the paratypes (*Madison & Besse 7011* at SEL) is clearly *Columnnea tenella* L. P. Kvist & L. E. Skog and was cited as such in 1993.

Finally, to prevent new combinations from being recorded incorrectly, we should note here that the following two combinations that appear as new (Wiehler, 1995a, b) had been published previously:

Corytopectus pulcher (N. E. Brown) Wiehler, *Gesneriana* 1: 37. 1995 [as comb. nov.] = *Corytopectus pulcher* (N. E. Brown) Wiehler, *Selbyana* 5: 61. 1978.

Paradrymonia longipetiolata (J. D. Smith) Wiehler, *Gesneriana* 1: 122. 1995 [as comb. nov.] = *Paradrymonia longipetiolata* (J. D. Smith) Wiehler, *Selbyana* 5: 54. 1978 ("longipedunculata").

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