

Type specimens of the Apocynaceae, Asclepiadaceae, Gentianaceae, Loganiaceae and Menyanthaceae in the Herbarium of the Martin-Luther-University Halle Wittenberg (HAL)

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Abstract: KESTING, S. & HOFFMANN, M. H. 2000: Type specimens of the Apocynaceae, Asclepiadaceae, Gentianaceae, Loganiaceae and Menyanthaceae in the Herbarium of the Martin-Luther-University Halle-Wittenberg. *Schlechtendalia* 5: 11-17.

A checklist of type specimens belonging to the Apocynaceae, Asclepiadaceae, Gentianaceae, Loganiaceae, and Menyanthaceae deposited in the herbarium of the Martin-Luther-University Halle-Wittenberg (HAL) is presented. The binominals are arranged alphabetically. Beside the names listed commentaries dealing with type locality, typifications, previous annotations, and synonymy are added. As far as they could be ascertained, currently adopted names are furnished at the end of each paragraph. Fifty-seven entries concern type material. Seven collections comprise original material, which are listed separately.

Zusammenfassung: KESTING, S. & HOFFMANN, M. H. 2000: Type specimens of the Apocynaceae, Asclepiadaceae, Gentianaceae, Loganiaceae and Menyanthaceae in the Herbarium of the Martin-Luther-University Halle-Wittenberg (HAL). *Schlechtendalia* 5: 11-17.

Die Typus-Belege der Apocynaceae, Asclepiadaceae, Gentianaceae, Loganiaceae und Menyanthaceae des Herbariums der Martin-Luther-Universität Halle-Wittenberg (HAL) sind alphabetisch in einer Liste zusammengefaßt. Für jeden Beleg werden Herkunft, Typisierung, Aufschriften auf den Herbaretiketten, sowie Bemerkungen anderer Autoren wiedergegeben. Der gültige Name der jeweiligen Sippe wird, sofern er zweifelsfrei bekannt ist, aufgeführt. Siebenundfünfzig Belege gehören zu Typusaufsammlungen, weitere 7 Belege sind Originalmaterial.

In this paper the type collections of the Apocynaceae, Asclepiadaceae, Gentianaceae, Loganiaceae, and Menyanthaceae at the herbarium of the Martin-Luther-University Halle-Wittenberg are listed. Methodology follows BRAUN (1998) and HOFFMANN (1998). It should be noted that a closer scrutiny of the collections at HAL may lead to detection of more type collections. In an additional list of the original material, collections are cited that may be type material but its status could not be ascertained.

Each entry in the checklist consists of the following parts:

- 1) The original name of species and a complete author citation,
- 2) Type localities of the specimen(s), annotations, previous typifications, locations of syntypes (as far as known),
- 3) The currently adopted name, if it may easily be inferred from monographic works.

Apocynaceae

Echites ehrenbergii Schltdl., *Linnaea* 26: 666, 1853-1855.

„*Echites biflora*, Schlingpflanze, überzieht Bäume - Blüten rötlich - am Meere. C. Ehrenberg S. Domingo“ (holotype: HAL 83854).

Plumeria xanthostoma Schltl., Linnaea 8: 523, 1833.

„Spontanea in Malpays de Naulingo April 29.“ (holotype: HAL 83850).

Tabernaemontana flavicans Willd. ex Roem. & Schult., Syst. 4: 797, 1819.

„*Tabernaemontana flavicans* N. Camila [? Camita]“ (possible type: HAL 83249).

Vahea madagascariensis Boj., Hort. Maurit. 207 et ex A. DC., Prod. 8: 327, 1844.

„*Faterna elastica* Noronha. ms. S. Mauritii. Sieber [written by D.F.C. v. Schlechtendal (pat.)]“ (possible type: HAL 83851).

Asclepiadaceae

Astephanus mucronatus Schltl., Linnaea 8: 518, 1833.

„N. 10 ... Hac. de la Laguna Jul. 29. ... [written by C.J.W. Schiede]“ (holotype: HAL 82965, 2 sheets).

Sarcostemma brevistigma Wight & Arn., in Wight, Contrib. 59, 1834.

„Herb. Wight. propr. 1558. *Sarcostemma brevistigma* W. et Arn. Peninsula Ind. orientalis.“ (type: HAL 83639).

Tacazzea venosa Decne., DC. Prod. 8: 493, 1844.

„Schimperiter Abyssinicum ... 636. *Periploca venosa* Hochst. Ad ripas fluvii Tacaze infra Dscheladscheranne d. 8. Nov. 1839.“ (type: HAL 83637).

Toxocarpus kleinii Wight & Arn., Contrib. 61, 1834.

„Herb. Wight. propr. 1560. *Toxocarpus Kleinii* W. et Arn. Peninsula Ind. orientalis.“ (type: HAL 83638).

Tylophora koi Merrill, Sunyatsenia 2: 17, 1934.

„*Tylophora koi* Merrill, sp. nov., S.P. Ko 51732, W.Y. Chun (otherwise written in Chinese)“ (isotype: HAL 85404).

Original material of the Asclepiadaceae

Periploca linearis Hochst., Flora 24, 1. Intell.: 25, 1841, nom. nud.

„Schimperiter Abyssinicum ... 365. *Periploca linearis* Hochst. ... In regione media septentrionali montis Scholoda frutices et arbores caule volubili scandens d. 28. Oct. 1837.“ (HAL 83636).

Gentianaceae

Chironia krebsii Griseb., Gen. et Sp. Gent.: 98, 1839.

„Krebs Capens. 231. *Chironia*, P... bon. spe., Krebs“ (type: HAL 83601).

Chironia perfoliata Eckl., S. Afr. Quart. Journ. 2, 1830; ex Griseb. Gen. et Sp. Gent. 104, 1839.

„*Chironia perfoliata* Eckl. 4.10. [am Vanstaadesberg, 1000-3000', Oct.]“ (type: HAL 83661).

Erythraea arenaria Presl., Delic. Prag. 88, 1822.

„*Erythraea arenaria* Pr. Arena maritima. Jun. ☉, Sicilia Presl.“ (type: HAL 84038).

Erythraea divaricata Schaffn. ex Schltdl. in Bot. Zeit. 13: 920, 1855.

„*Erythraea divaricata* Schaffn. 81. ad Huatusco by Schaffner.“ (holotype: HAL 34834, designated by C.R. Brome) – *Centaurium quitense* (H.B.K.) Robins.

Erythraea paposana Phil., Fl. Atac. 35, 1860.

„*Erythraea paposana* Ph. Paposo in deserto Atacama.“ (type: HAL 84047).

Erythraea stricta Schiede ex Schltdl. in Bot. Zeit. 13: 918, 1855.

„*Erythraea stricta* Schiede 80. pr. Huatusco leg. Schaffner.“ (holotype: HAL 34829, designated by C.R. Brome) – *Centaurium strictum* (Schiede ex Schltdl.) Druce.

Erythraea tetramera Schiede ex Schltdl. in Bot. Zeit. 13: 919, 1855.

„*Erythraea tetramera* Dr. Schiede. [Mexico] Cuernavaca. Coll. July 1853.“ (holotype: HAL 34830, designated by C.R. Brome) – *Centaurium strictum* (Schiede ex Schltdl.) Druce.

Exacum concinnum Miq., Anal. Bot. Ind. 3: 10.

„Pl. Indiae or. (Terr. Canara.) Ed. R.F. Hohenacker 1849. 581 *Exacum concinnum* Miq. n. sp. Prope urbem Mangalor. Floret tempore pluvio.“ (type: HAL 073738).

Exacum macrantherum Miq., Anal. Bot. Ind. 3: 10.

„Pl. Indiae or. (Terr. Canara.) Ed. R.F. Hohenacker 1849. 582 *Exacum macrantherum* Miq. n. sp. Incolis: Prope urbem Mangalor. Sept. m.“ (type: HAL: 073740).

Exacum metzianum Hohen. ex C.B. Clarke, in Hook. Fl. Brit. Ind. 4: 96, 1885.

„Pl. Indiae or. (Terr. Canara.) Ed. R.F. Hohenacker 1851. 857. *Exacum Metzianum* Hohenack. n. sp. Affine E. Perrottetii Griseb. et ceylanico Roxb. In montibus Ghauts prope urbem Mangalor.“ (type: HAL 073739).

Gentiana atrata Bunge ex Griseb., DC. Prod. 9: 98, 1845.

„Herbar. Bunge, *Gentiana atrata* mihi, Flor. orient. altaica. 1839“ (type: HAL 83635).

Gentiana boissieri Schott & Kotschy ex Boiss., Flor. Orient. 4: 75, 1879.

„Th. Kotschy. ... Ad sodinas argentiferas Bulgar Magara alt. 8000' Jul. 1853“ (type: HAL 83634).

Gentiana boryi Boiss., Elench. p. 141 (65), 1840.

„Herb. Boissier, in summis pratis madidis Sierra Nevada, Aug. 1837. Alt. 7500-9000“ (type: HAL 83632).

Gentiana cespitosa Willd. ex Schult., Syst. 6: 185, 1820.

„*Gentiana cespitosa*. Humboldt ex America. merid. W. ded. [written by D.F.C. v. Schlechtendal (pat.)]“ (type: HAL 83641).

Gentiana floribunda Willd. ex Schult., Syst. 6: 185, 1820.

„*Gentiana floribunda*, ex America merid. Humboldt. W. ded.“ (type: HAL 83622).

Gentiana marcowiczii Kusnezow, (in sched.). „Flora Rossica: Digoria (Kaukasus); in pratis subalpinis. 26.9.98. leg. Marcowicz, vgl. Wettstein in Öster. Bot. Z., 1892, pg. 44, 45“ (type: HAL 83620).

Gentiana peduncularis Willd. ex Schult., Syst. 6: 185, 1820.

„*Gentiana peduncularis*, ex Amer. merid. Humboldt. W. ded.“ (type: HAL 83630).

Gentiana rurikiana Cham. et Schltdl., Linnaea 1: 176, 1826.

„*Gentiana rurikiana* ...α, major. Sinus Escholzii, β, minor. Sinus Laurentii, Adalb. v. Chamisso [written by A. v. Chamisso]“ (holotype: HAL 83665).

Helia brevifolia Cham. in Linnaea 8: 11, 1833.

„Herb. Reg. Berolinense. *Helia brevifolia* Ch. et Schl., Brasilia. [„Lages“] Sellow legit.“ (type: HAL 21499, designated by P.J.M. Maas) – *Irlbachia brevifolia* (Cham.) Maas.

Leiphaimos parasitica Schltld. et. Cham. in Linnaea 6: 387, 1831.

„1210. *Leiphaimos parasitica*. [written by A. v. Chamisso]“, „? *Gentiana* Color Hypopityos ... [Mexico in arbore putrido sylvae Papantlensis] Dec. 28. [written by C.J.W. Schiede]“ (type: HAL 42202, designated by P. Ruyters & P.J.M. Maas) – *Voyria parasitica* (Schltld. et. Cham.) Ruyters & Maas.

Lisianthus nigrescens Cham. et Schltld. in Linnaea 6: 388, 1831.

„1212. *Lisianthus nigrescens* n. sp. [written by A. v. Chamisso], *Lisianthi* sp. corolla nigrescente [Mexico] In sylvis Papantlae Dec. 28. [written by C.J.W. Schiede]“ (holotype: HAL 22070, designated by R.E. Weaver, Jr.).

Lisianthus saponarioides Cham. et Schltld. in Linnaea 6: 389, 1831.

„1213 *Lisianthus Saponarioides* n. sp. [written by A. v. Chamisso], *Lisianthi* sp. fl. albo ... [Mexico] Ad margines sylvarum Papantlae [written by C.J.W. Schiede]“ (holotype: HAL: 22068, 22069, designated by R.E. Weaver, Jr.).

Lisianthus vasculosus Griseb. in Linnaea 22: 37, 1849.

„27 *Lisianthus daturoides* Griseb. Columbien. Dr. H. Karsten.“ (syntype: HAL 37306, designated by E.C.H. van Heusden & P.J.M. Maas) – *Symbolanthus calygonus* (R. & P.) Griseb.

Lisyanthus uliginosus Griseb., Gen. et Sp. Gent. 181, 1839.

„Herb. Reg. Berolinense. *Lisianthus uliginosus* Griseb. *L. purpurascens* Ch. et Schl., Brasilia. Sellow legit.“; „Herb. Facult. Scient. Monspel. *Lisianthus uliginosus* Griseb. Bahia. Salzmann.“; „Bahia in humidis, *Lisianthus*, Salzmann“ (syntypes: HAL 27308, 27310, 27307, designated by J.G.M. Persoon & P.J.M. Maas) – *Irlbachia purpurascens* (Aubl.) Maas.

Monobothrium schimperi Hochst., (in sched.) Flora 27: 27, 1844.

„Schimperi iter Abyssinicum. Sectio secunda. 1241 *Monobothrium schimperi* Hochst. In monte Simensis Bachit prope Demerki, U. i. 1842. d. 14. Aug. 1838.“ (type: HAL 83663).

Sabbatia australis Cham. et Schltld. in Linnaea 1: 194, 1826.

„*Sabbatia australis* Nb. Sellow. Montevideo.“ (type: HAL 076411, designated by P.J.M. Maas) – *Zygostigma australis* Griseb.

Schuebleria pusilla Griseb., Gen. et Sp. Gent. 163, 1839.

„Herb. Reg. Berolinense. *Schuebleria pusilla* Griseb. Brasilia. Sellow legit.“ (isotype: HAL 45101, designated by E.H.M. Grothe & P.J.M. Maas) – *Curtia diffusa* (Mart.) Cham.

Sebaea ambigua Cham., Linnaea 6: 346, 1831.

„77. *Erythraea exacoides* var. *major* Eckl. Unio itineraria 1828. Ecklon. Humida inter Restiones prope Seekuhvallei in planitie capensis. Febr. 1827.“ (holotype of *α* *Gracilis*: HAL 83666).

„*Sebaea ambigua* Cham. et Schl.“ (sine loco, possible holotype of *β* *Crassa*: HAL 83667).

Sebaea pusilla Cham., *Linnaea* 6: 346, 1831.

„Humida altitud. 2. mont. tabul. septentr. Novbr. U. J. Ecklon.“ (holotype: HAL 83659).

Sebaea sulphurea Schldtl., *Linnaea* 1: 192, 1826.

„730 *Sebaea tabularis* Eckl. In sumitate mont: tabul. Novbr. C.F. Ecklon.“ (holo(?) type: HAL 83668).

Swertia abyssinica Hochst., *Flora* 27: 28, 1844.

„Schimper iter Abyssinicum. Sectio prima. 22. *Swertia abyssinica* Hochst. Locis apricis, praesertim ..., U. i. 1840. montis Schdada. d. 23. Oct. 1837.“ (type: HAL 83664).

Voyria flavescens Griseb. in DC. *Prod.* 9: 85, 1845.

„Pöppig Herb. 3064 *Vohyria uniflora* ...“ (isotype: HAL 39389, designated by P. Ruyters & P.J.M. Maas).

Original material of the Gentianaceae

Canscora lancifolia Miq. ex C.B. Clarke in Hook. *Fl. Brit. Ind.* 4: 103, 1885, nom. inval.

„Pl. Indiae or. (Terr. Canara.) Ed. Hohenacker 1847. 305. *Canscora lancifolia* Miq. n. sp. – Ipse. Prope urbem Mangalor. Floret post tempus pluvium.“ (HAL 90106). - *C. pauciflora* Dalz.

Canscora macrocalyx Miq. ex C.B. Clarke in Hook. *Fl. Brit. Ind.* 4: 104, 1885, nom. inval.

„Pl. Indiae or. (Terr. Canara. et confin.) Ed. Hohenacker 810. *Canscora macrocalyx* Miq. n. sp. In campis prope Mercara. Oct. m.“ (HAL 83602). – *C. perfoliata* Lamk.

Gentiana auriculata Pallas, *Flor. Ross.* 1, 2: 102, t. 92, 1789.

„*Gentiana auriculata*, e Sibirica Pallas. W. ded. [written by D.F.C. v. Schlechtendal (pat.)]“ (HAL 83644).

Gentiana macrophylla Pallas, *Flor. Ross.* 1, 2: 108, t. 96, 1789.

„*Gentiana macrophylla*, e Sibiria Pallas. Willdenow dedit [written by D.F.C. v. Schlechtendal (pat.)]“ (HAL 83645).

Gentiana triflora Pallas, *Flor. Ross.* 1, 2: 105, 1789.

„*Gentiana triflora* Pallas, e Sibiria. Willdenow ded.“ (HAL 83646).

Loganiaceae s. l.

Dicaryum subdentatum Willd. ex Roem. & Schult., *Syst.* 4: 802, 1819.

„*Dicaryum subdentatum* e monte ... Humboldt, W[illdenow]. ded.“ (type: HAL 83650).

Logania linifolia Schldtl. in *Linnaea* 20: 605, 1847.

„*Logania linifolia* Schldl. Linn. XX. p. 605. Dr. Behr [Südastralien an felsigen Stellen.]“ (type: HAL 069877).

Strychnos campicola Gilg ex Leeuwenb. in *Meded. Landbouwh. Wagen.*, *Nederl.* 69, 1: 74, 1969.

„Herbarium Vadense, Plants collected by A.J.M. Leeuwenberg, Cameroun, 1965-1966, No. 5447, d.d. 15.4.1965. *Strychnos campicola* Gilg ex Leeuwenberg, Nkolbisson, 7 km W of Yaoundé. Alt. 750 m. Grove on granitic rock. Det.: A.J.M. Leeuwenberg, 1965.“ (isotype: HAL 45220).

Strychnos camptoneura Gilg et Busse, in Engl. Jahrb. 36: 93.

„Herbarium Vadense, Plants collected by F.J. Breteler, J.J.F.E. de Wilde and A.J.M. Leeuwenberg, Cameroun, Dec. 1961 – Feb. 1962, No. 2572. d. d. 12.2. *Strychnos camptoneura* Gilg et Busse, Hab.: 39 km E of Douala. Secondary regrowth among remnants of primary rain forest. Sand. Alt. about 100 m. Det.: A.J.M. Leeuwenberg, 1962.“ (neotype: HAL 45214).

Strychnos elaeocarpa Gilg ex Leeuwenb. in Meded. Landbouwh. Wagen., Nederl. 69, 1: 114, 1969.

„Herbarium Vadense, Plants collected by A.J.M. Leeuwenberg, Cameroun, 1965-1966, No. 7005, d. d. 22.10.1965. *Strychnos elaeocarpa* Gilg ex Leeuwenberg, 4 km E of km 65 of road Edea-Kribi. Alt. about 100 m. Partially secondary forest. Det.: A.J.M. Leeuwenberg, 1965.“ (isotype: HAL 45216).

Spigelia flemmingiana Cham. et Schltdl. in Linnaea 1: 203, 1826.

„*Spigelia Flemmingiana* Schl. et Cham. Linnaea 1 p. 203. Sellow. Brasilia.“ (type: HAL 069905, designated by Homer Hurley) – *Spigelia glabrata* Mart.

Spigelia humboldtiana Cham. et Schltdl. in Linnaea 1: 200, 1826.

„*Spigelia Humboldtiana* N. Montevideo.“ (type: HAL 069878, designated by Homer Hurley) – *Spigelia scabra* Cham. et Schltdl.

Spigelia martiana Cham. in Linnaea 8: 15, 1833.

„*Spigelia Martiana* N. Sellow Brasilia“ (type: HAL 069876, designated by Homer Hurley).

Spigelia scabra Cham. et Schltdl. in Linnaea 1: 202, 1826.

„*Spigelia scabra* Nob. Sellow. Montevideo. [Brasilia: in provincia Cisplatina.]“ (type: HAL 069906, designated by Homer Hurley).

Spigelia sellowina Cham. et Schltdl. in Linnaea 1: 205, 1826.

„*Spigelia Sellowina* Nb. Sellow. Brasilia. [crescit in regionibus interioribus]“ (type: HAL 069907, designated by Homer Hurley).

Spigelia spartioides Cham. in Linnaea 8: 14, 1833.

„*Spigelia spartioides* N. Sellow. Brasilia.“ (type: HAL 069879, designated by Homer Hurley).

Original material of the Loganiaceae s.l.

Strychnos abyssinica Hochst., Flora 24, 1. Intell.: 25, 1841. nom. nud.

„Schimper 254. In praeruptis frigidis montium prope Schahagenni. U.i. 1840, 15. Dec. 1837.“ (HAL 83660).

Menyanthaceae

Limnanthemum forbesianum Griseb., Gen. et Sp. Gent. 345, 1839.

„Ceylon. Macrae. Lindley ded.“ (type: HAL 83593).

Limnanthemum lacunosum Griseb., Gen. et Sp. Gent. 347, 1839.

„*Menyanthes punctata* ex Amer. boreali, Willdenow ded. [written by D.F.C. v. Schlechtendal (pat.)]“ (type: HAL 83431).

Limnanthemum thunbergianum Griseb., Gen. et Sp. Gent. 345, 1839.

„2.1. [Uitenhaag, Zwarts Kops rivier, Villa Paul Marè, Jan.]“ (syntype: HAL 83647).

Limnanthemum wightianum Griseb., Gen. et Sp. Gent. 344, 1839.

„Ceylon. Macrae. Lindley ded.“ (type: HAL 83598).

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