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# Type material of the Herbarium of the Martin-Luther- University Halle-Wittenberg (HAL) Annonaceae

**Heimo RAINER**

**Abstract:** RAINER, H. 2003: Type material of the herbarium of the Martin-Luther-University Halle-Wittenberg (HAL). Annonaceae. *Schlechtendalia* **10**: 1–5.

In this paper, types of all taxa belonging to the Annonaceae deposited in the herbarium of the Martin-Luther-University Halle-Wittenberg (HAL) are listed. A survey of the type collections of HAL is also available via the internet (<http://www.biologie.uni-halle.de/bot/herb.html>).

**Zusammenfassung:** RAINER, H. 2003: Typusmaterial des Herbariums der Martin-Luther-Universität Halle-Wittenberg (HAL). Annonaceae. *Schlechtendalia* **10**: 1–5.

In der vorliegenden Arbeit werden die Typuskollektionen der Sippen der Annonaceen aus dem Herbarium der Martin-Luther-Universität Halle-Wittenberg (HAL) aufgelistet. Eine Übersicht der HAL-Typen kann auch über das Internet abgerufen werden (<http://www.biologie.uni-halle.de/bot/herb.html>).

The present work continues the series of publications on the type collections kept at the Herbarium of the University of Halle-Wittenberg (BRAUN 1998, 2000; BRAUN & STORDEUR 2001; HOFFMANN 1998, 2000; KESTING & HOFFMANN 2000). The concept of the listings follows the first publication of the series (BRAUN 1998) with some minor modifications. Each collection is annotated as Holo-, Iso-, Lecto-, or Syntypus respectively. If the exact status of the specimen is not known the general term “Typus“ is applied. The names of the taxa, incl. bibliographical references, and the herbarium number of each specimen are documented. In the case of rudimentary labels, additional information, esp. on collection localities and dates, is provided in square brackets. According to the present knowledge of taxonomy and nomenclature for the group, the accepted name is given in bold letters, nomenclatural (homotypic) and taxonomical (heterotypic) synonyms are presented in square brackets as well. Names published by von Schlechtendal but where no specimen could be traced in the herbarium are added at the end of the list.

Many of the type specimens of Annonaceae of the publications of SCHLECHTENDAL (et CHAMISSO) have earlier been cited for Berlin (B) only (e.g. FRIES 1931, MAAS 1994). The reason for this circumstance was firstly that the material on which the publications by SCHLECHTENDAL were based had been originally housed at the Berlin Botanical Garden Herbarium, esp. in the herbarium of Willdenow, and only thereafter had been sent to the herbarium Halle (cf. WERNER 1988).

**Type collections of Annonaceae in HAL:**

- Annona axillaris* Ruiz in schedis, nom. nud. – vide *Annona neglecta* R. E. Fr.
- Annona conica* Ruiz & Pav. ex G. Don, Gen. syst. 1: 88 (1831) [= *Raimondia conica* (Ruiz & Pav. ex G. Don) Westra]; Isotypus: Peruvia et Chili, [Ecuador. Guayas: Guayaquil (protologue: "Huayaquil"), s.d., H. Ruiz, ex herb. Lamberti; HAL 76420.
- Annona globiflora* Schldtl., Linnaea 10: 235 (1836); Holotypus: Mexico [Oaxaca: NW of Xalapa] Hacienda de la Laguna, Aug. 1829, C.J.W. Schiede [298]; HAL 76425.
- Annona neglecta* R.E. Fr., Acta Horti Berg. 12(2): 278 (1937); Isotypus: Peruvia et Chili, [Peru. Junín: Vitoc (protologue: "ad Vitoc"), [1794], H. Ruiz, ex herb. Lamberti; HAL 76414.
- Annona rhombipetala* Ruiz & Pav. ex G. Don, Gen. syst. 1: 87 (1831) [= *Fusaea longifolia* (Aubl.) Saff.]; Syntypus (fragm.): Peruvia et Chili [Peru. Huánuco: Chicoplaya and San Antonio de Playa Grande], [1797], H. Ruiz, ex herb. Lamberti [1 loose leaf]; HAL 76433.
- Annona rufa* C. Presl, Reliq. haenk. 2: 75 (1836) [= *Fissistigma rufum* (C. Presl) Merr.; = *Fissistigma latifolium* (Dunal) Merr.]; Isotypus: Philippines, Luzon, [first half of 1792], T.P.X. Haenke; HAL 83899.
- Annona salzmannii* A. DC., Mém. Fam. Annonacées 1: 197 (1832); Isotypus: Brasil, Bahia, [1830], P. Salzmann; HAL 76434.
- Bocagea multiflora* Mart., Fl. bras. 13(1): 45, t. 14 (1841) [= *Bocageopsis multiflora* (Mart.) R.E. Fr.]; Isotypus: [Brasil. Amazonas: Tefé (protologue: "in silvis ad Ega"), s.d., E.F. Poeppig 2668; HAL 77061.
- Bocagea polyandra* C. Presl, Reliq. haenk. 2: 77 (1835) [= *Popowia polyandra* (C. Presl) Merr.]; Isotypus: Philippines, Luzon [first half of 1792], T.P.X. Haenke; HAL 98070.
- Bocageopsis multiflora* (Mart.) R. E. Fr., Acta Horti Berg. 10(2): 145, fig. 2a (1931) – vide *Bocagea multiflora* Mart.
- Cardiopetalum calophyllum* Schldtl., Linnaea 9: 318 (1834); Holotypus: Brasil, [Minas Gerais: São Antonio do Monte], s.d., F. Sellow; HAL 59852. **Type for the genus, with a detailed diagnosis of the plant in Schlechtendal's handwriting.**
- Desmopsis trunciflora* (Schldtl.) G.E. Schatz, Candollea 49(2): 419 (1994) – vide *Xylopia trunciflora* Schldtl.
- Duguetia bahiensis* Maas, Bot. Jahrb. Syst. 115: 83 (1993) (≡ *Duguetia bracteosa* Mart., nom. illeg.); Isotypus: Brasil, [Bahia: Ilheus (protologue: "ad Ilheos"), s.d., C.F.P. von Martius, Herb. Fl. Bras. 709; HAL 76481.
- Duguetia bracteosa* Mart., Fl. Bras. 13(1): 23 (1841) – vide *Duguetia bahiensis* Maas  
*Fissistigma rufum* (C. Presl) Merr., Philipp. J. Sci. 15: 136 (1919) – vide *Annona rufa* C. Presl
- Fissistigma latifolium* (Dunal) Merr., Philipp. J. Sci. 15: 132 (1919) – vide *Annona rufa* C. Presl
- Fusaea longifolia* (Aubl.) Saff., Contr. U.S. Natl. Herb. 18: 65, figs 73–74 (1914) – vide *Annona rhombipetala* Ruiz & Pav. ex G. Don
- Guatteria caffra* (E. Mey. ex Müll. Berol.) Sond., Fl. Cap. (Harvey) 1: 9 (1860) – vide *Unona caffra* E. Mey. ex Müll. Berol.

- Gutteria densicoma*** Mart., Fl. bras. 13(1): 32 (1841); Isotypus: Brasil [Bahia: Almada (as "in silvis primaevae ad Almada Insulanorum"), s.d., C.F.P. von Martius, Herb. Fl. Bras. 711; HAL 76466.
- Gutteria dolichophylla*** R.E. Fr., Acta Horti Berg. 12(3): 414 (1939); Isotypus: [Brasil. Amazonas: Tefé (protologue: "civit. Amazonas, in sylvis litoreis lacus Egensis"), s.d., E.F. Poeppig 2693; HAL 43140.
- Gutteria eugeniaefolia*** A. DC. ex R. E. Fr., Acta Horti Berg. 12(3): 453 (1839); Isotypus: [Peru. Loreto: Tocache, Maynas], s.d., E.F. Poeppig 1859; HAL 43141.
- Gutteria excelsa*** Poepp. ex Mart., Fl. bras. 13(1): 38 (1841); Isotypus: [Peru. Huánuco. Pampayacu (protologue: "Peruvia, in sylvis submontanosibus ad Pampayacum"), s.d., E.F. Poeppig 1467 (No. 139); HAL 76467.
- Gutteria glauca*** Ruiz & Pav., Syst. veg. fl. peruv. chil. 1: 145 (1798); Isotypus: Peruvia et Chili [Peru. Huánuco: Chinchao (protologue: "in nemoribus versus Cuchero et Chinchao"), s.d., H. Ruiz, ex herb. Lamberti [6 loose leaves]; HAL 76424.
- Gutteria hilariana*** Schltld. f. *angustifolia* Schltld., Linnaea 9: 324 (1834) [= ***G. hilariana*** Schltld. var. *angustifolia* (Schltld.) Mart.]; Isotypus: Brasil, s.d., F. Sellow, A) *angustifolia*; HAL 76469.
- Gutteria hilariana*** Schltld. f. *latifolia* Schltld., Linnaea 9: 324 (1834) [= ***G. hilariana*** Schltld. var. *latifolia* (Schltld.) Mart.]; Isotypus: Brasil, s.d., F. Sellow, B) *latifolia* [6 loose leaves and 1 loose flower]; HAL 76468.
- Gutteria hirsuta*** Ruiz & Pav., Syst. veg. fl. peruv. chil. 1: 146 (1798); Isotypus: Peruvia et Chili [Peru. Huánuco: Chinchao (protologue: "in nemoribus versus Chinchao"), s.d., H. Ruiz, ex herb. Lamberti]; HAL 76426.
- Gutteria macropus*** Mart., Fl. bras. 13(1): 28 (1841); Isotypus: Brasil [Bahia, Almada (protologue: "in sylvis ad Almada"), s.d., C.F.P. von Martius, Herb. Fl. Bras. 712; HAL 76472.
- Gutteria martiana*** Schltld., Linnaea 9: 326 (1834) [= ***Oxandra martiana*** (Schltld.) R.E. Fr.]; Syntypi: Brasil [Minas Gerais, Guidowald], s.d., F. Sellow, "*Gutteria martiana* n. sp." [4 loose leaves and 2 monocarps]; HAL 76471, HAL 76473.
- Gutteria maypurensis*** Kunth, Nov. gen. sp. 5(19): 64 (1821); Isotypus: [Venezuela. Amazonas: pr. Maypures, Misiones del Orinoco], s.d., [A. von Humboldt & A. Bonpland 902 (= Herb. B-Willd. 10420)]; HAL 76475.
- Gutteria microcarpa*** Ruiz & Pav. ex G. Don, Gen. syst. 1: 100 (1831) [Fl. peruv. prodr. V, T. 479 ined.]; Syntypus: Peruvia et Chili [Ecuador. Guayas: Guayaquil.], s.d., H. Ruiz, ex herb. Lamberti [1 loose leaf]; HAL 43146.
- Gutteria oligocarpa*** Mart., Fl. bras. 13(1): 33 (1841); Isotypus: Brasil [Bahia: Ilheus] in silvis ad Ilheos, s.d., C.F.P. von Martius, Herb. Fl. Bras. 714; HAL 76476.
- Gutteria sellowiana*** Schltld., Linnaea 9: 323 (1834); Typus: Brasil [Minas Gerais, Serra do S. Antonio], s.d., F. Sellow; HAL 76478.
- Monanthotaxis caffra*** (E. Mey. ex Müll. Berol.) Verdec., Kew Bull. 25(1): 25 (1971) – vide *Unona caffra* E. Mey. ex Müll. Berol.
- Oxandra martiana*** (Schltld.) R. E. Fr., Acta Horti Berg. 10(2): 165, fig. 4e-d (1931) – vide *Gutteria martiana* Schltld.
- Popowia polyandra*** (C. Presl) Merr., Philipp. J. Sci. 3: 224 (1908) – vide *Bocagea polyandra* C. Presl

- Porcelia nitidifolia* Ruiz & Pav., Syst. Veg. fl. Peruv. Chil. 144 (1798); Isotypus: [Peru. Huánuco: Chinchao and Macora (protologue: "in Peruviae nemoribus versus Chinchao vicum et Macora praedium"), [probably Aug. 1785], H. Ruiz, ex herb. Lamberti; HAL 76421.
- Raimondia conica* (Ruiz & Pav. ex G. Don) Westra, Candollea 49(2): 455 (1994) – vide *Annona conica* Ruiz & Pav. ex G. Don
- Rollinia emarginata* Schltld., Linnaea 9: 318 (1834); Isolectotypus: Brasil [protologue: "Brasilia meridionalis", s.d., F. Sellow; HAL 76440.
- Rollinia parviflora* A. St.-Hil. var. *latifolia* Mart., Fl. Bras. 13(1): 19 (1841). [= *Rollinia parviflora* A.St.-Hil.]; Syntypus: [Brasil, Rio de Janeiro] in sylv. mont. Tijuco, [1830], J. Lhotsky 33; HAL 76441.
- Rollinia salicifolia* Schltld., Linnaea 9: 317 (1834); Lectotypus (**hoc loco designatus**): Brasil [protologue: "Brasilia meridionalis", s.d., F. Sellow; HAL 76442, Isolectotypus: 76443.
- Trigynaea oblongifolia* Schltld., Linnaea 9: 329 (1834); fragm. of Holotypus in B: Brasil [Minas Gerais, Guidowald (protologue: "Guidoval"), [Feb. 1819], F. Sellow; HAL 59853; **Type of the genus, with a detailed diagnosis of the plant in Schlechtendal's handwriting.**
- Unona caffra* E. Mey. ex Müll. Berol.; Ann. Bot. Syst. 7(1): 53 (1868), [= *Guatteria caffra* (E. Mey. ex Müll. Berol.) Sond.; = *Monanthotaxis caffra* (E. Mey. ex Müll. Berol.) Verdc.], Typus: [South Africa. KwaZulu-Natal: Woods at Omsamwubo and Port Natal], s.d., J.F. Drège s.n.; HAL 98772
- Uvaria solanifolia* C. Presl, Reliq. haenk. 2: 76 (1835); Isotypus: Philippines, Luzon, [first half of 1792], T.P.X. Haenke s.n.; HAL 98074.
- Xylopia frutescens* Aubl. var. *ferruginea* R. E. Fr., Kongl. Svenska Vetenskapsakad. Handl. n.s. 34(5): 30 (1900) [= *Xylopia frutescens* Aubl.]; Isotypus: [Brasil. Rio Amazonas], [1882], E.F. Poeppig 3024; HAL 76451.
- Xylopia frutescens* auct. non Aubl.: Sieber ex C. Presl, Isis (Oken) 21: 273 (1828) [= *Annona squamosa* L.]; Syntypus: Martinique, s.d., F.W. Sieber, Fl. martin. No. 306; HAL 76452.
- Xylopia trunciflora* Schltld. & Cham., Linnaea 6: 417 (1831) [= *Desmopsis trunciflora* (Schltld. & Cham.) G.E. Schatz]; Lectotypus (**hoc loco designatus**): Mexico, [Veracruz: Colipa] inter Colipam et litorem maris, reg. cal., III. 1829, F. Deppe & C.J.W. Schiede 1287; HAL 76577 A; Isolectotypi: HAL 76577 B, 76577 C.

### **Annonaceae published by Schlechtendal but not present in the Herbarium of Halle:**

*Guatteria candolleana* Schltld., Linnaea 9: 325 (1835).

There is a single collection under this name in Schlechtendal's herbarium (HAL 98455), which is probably syntype material, but the locality, collector and any other data are lacking on the label, so that the status of this specimen remains uncertain.

*Guatteria hilariana* Schltld., Linnaea 9: 324 (1835).

As to the taxonomic concept of that time Schlechtendal did not assign a distinct specimen to the newly created taxon, and additionally described two formae, viz.,

(a) *angustifolia* and (b) *latifolia*, cf. above. Subsequently the species itself remains without a type. For lectotypification most probably a specimen of f. (a) *angustifolia* will have to be used, but not before collections from other main herbaria, esp. the Herbarium of the Berlin Botanical Garden (B), have been consulted.

*Gutteria pohliana* Schldtl., *Linnaea* 9: 321 (1835).

*Rollinia laurifolia* Schldtl., *Linnaea* 9: 319 (1835).

*Rollinia rugulosa* Schldtl., *Linnaea* 9: 316 (1835).

*Xylopia parvifolia* Schldtl., *Linnaea* 9: 327 (1835); = *Xylopia brasiliensis* Spreng.

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BRAUN, U. 2000: Typusmaterial des Herbariums der Martin-Luther-Universität Halle-Wittenberg (HAL). Teil 2: Myrtaceae. *Schlechtendalia* 5: 1–10.

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### Address of the author:

H. Rainer, Universität Wien, Institut für Botanik, Herbarium, Rennweg 14, A-1030 Wien, Österreich. (e-mail: heimo.rainer@univie.ac.at)