

# Type specimens of the Brassicaceae in the Herbarium of the Martin-Luther-University Halle Wittenberg (HAL)

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*Aethionema elongatum* Boiss., *Diagn. Pl. Or. Nov. Sér. 1, 6*: 17, 1845.

"Kotschy 583, Pl. Pers. austr. ed Hohenacker. In rupestribus alpis Kuh-Daëna sparsim. 8. Jul. 1842." (syntype: HAL 81456, other syntype: G).

*Alyssopsis kotschy* Boiss., *Diagn. Pl. Or. Nov. Sér. 1, 6*: 14, 1845.

"Kotschy, in m. Kuh Barfi prope u. Schiraz, Maj 1842" (syntype: HAL 85356, other syntypes: G, E). - *Dielsiocharis kotschy* (Boiss.) O. E. Schulz.

*Alyssum heterotrichum* Boiss., *Diagn. Pl. Or. Nov. Sér. 1, 6*: 15, 1845.

"Kotschy 224, prope ruinas u. Persepolis, M. Apr. 1842" (syntype: HAL 86102, other syntypes: G, BM, E, K, OXF, W).

*Alyssum wierzbickii* Heuff., *Flora* **18**: 242, 1835.

several specimen, e.g. "3. *Alyssum wierzbickii*. In montanis rupestribus Tilsa mare dictis ad Oravicza. May. Flor. Banatus. Wierzbicki", "1277 *Alyssum wierzbickii* Heuff., Bannat, an schattigen steinigen Waldstellen der Berge Tilsa mare und Tilsa mik. Juni. Dr. Wierzbicki" (type: HAL 86105, 86106).

*Arabis anachoretica* Porta ex Huter, *Oesterr. Bot. Zeitschr.* **54**: 139, 1904.

"Tirolia austral. Val di Ledro in antris mts. Corno, sol calcar. 800-900 m, Aug. 1888, leg. Porta" (type: HAL 85351).

*Arabis cuneifolia* A. Rich., *Tent. Fl. Abyss.* **1**: 17, 1847.

"Schimper 997, *Arabis cuneifolia* Hochst. Ad rupes in regionibus summis montium Sémensium prope Silke, 23. Jun. 1838" (isotype: HAL 85352, holotype: P, other isotypes: K, S).

*Arabis owaihiensis* Cham. & Schltld., *Linnaea* **1**: 17, 1826.

"*Arabis* O-waihiensis n., O wahu in montibus" (holotype: HAL 85354).

*Aubrieta intermedia* Heldr. & Orph. in Boiss. *Diagn. Pl. Or. Nov. Sér. 2, 1*: 36, 1854.

"Orphanides 379. *Aubrieta intermedia* Heldr. & Orph. n. sp. In monte Ziria (Cyllene) prope Tricala, 3000-5000', 22. Apr.-4.[?] Mai 185[4?]" (type: HAL 84116).

*Brassica moricandioides* Boiss., *Elench.* **12**, 1838.

"Herb. E. Boissier. *Brassica moricandioides* Boiss. El. n° 12. in rupibus propé Ronda. Jun. 1837." (type: HAL 84125).

*Brossardia retusa* Boiss., *Fl. Orient.* **1**: 336, 1867.

"Kotschy 327, 523. Pl. Pers. austr. ed Hohenacker. In declivibus ... alpis Kuh-Delu ..." (type: HAL 84114).

*Cardamine flaccida* Cham. & Schltld., *Linnaea* **1**: 21, 1826.

"Talcahuano, Chile austr. Poeppig 168", "*Cardamine flaccida* n. Chile [written by A. v. Chamisso]" (type: HAL 84114).

HAL 84865, 84866).

*Cardamine nemophila* Phil., *Linnaea* **30**: 186, 1859-1860.  
"Puerto Montt" (lectotype: HAL 85359).

*Cardamine obliqua* Hochst. ex A. Rich., *Tent. Fl. Abyss.* **1**: 19, 1847.  
"Schimper 989, in regione superiori montis Bachit ad rivulos. 24. Jun. 1838" (isotype: HAL 81734, holotype: P, other isotypes: B, BM, K, S, W).

*Cardamine purpurea* Cham. & Schldtl., *Linnaea* **1**: 20, 1826.  
"Ins[ulis] St. Laurentii. A. v. Ch[amisso]" (holotype: HAL 85360).

*Cardamine simensis* Hochst. ex A. Rich., *Tent. Fl. Abyss.* **1**: 19, 1847.  
"Schimper 571, Demerki 9. Aug. 1838" (type: HAL 85361).

*Cardamine vulgaris* Phil., *Linnaea* **28**: 665, 1856.  
"Valdivia" (type: HAL 85362).

*Conringia persica* Boiss., *Diagn. Pl. Or. Nov. Sér.* **1**, **6**: 12, 1845.  
"Kotschy 339, Pl. Pers. austr. ed. Hohenacker. In convallibus reg. sup. m. Kuh-Barfi pr. u. Schiras. 4. Maj. 1842" (type: HAL 84091, other type: K).

*Crambe kotschyana* Boiss., *Diagn. Pl. Or. Nov. Sér.* **1**, **6**: 19, 1845.  
"Kotschy 380, Pl. Pers. austr. ed. Hohenacker. Ad latera in occid. spectantia m. Sabst-Buschom. pr. u. Schiras. 14. Maj. 1842" (syntype: HAL 80982, other syntypes: W, G).

*Draba henneana* Schldtl., *Linnaea* **10**: 100, 1835.  
"Labrador Wenck", Wenck has provided D.F.L.v. Schlechtendal with the material collected by Henne in Labrador. The specimen has no ripe fruit as mentioned in the diagnosis. (holotype: HAL 84109).

*Draba laevigata* Cham. & Schldtl., *Linnaea* **1**: 25, 1826.  
"*Draba laevigata* n. Ins[ulis] St. Laurentii. A. v. Ch[amisso]" (holotype: HAL 84110).

*Erysimum persepolitenum* Boiss., *Diagn. Pl. Or. Nov. Sér.* **1**, **6**: 11, 1845.  
"Kotschy 261, Pl. Pers. austr. ed. Hohenacker. In collibus pr. ruinas u. Persepolis 19. Apr. 1842" (isolectotype: HAL 84090, lectotype: W).

*Farsetia stenoptera* Hochst., *Allg. Bot. Zeitung* **31**: 176, 1848.  
"Kotschy 81, ad montem Cordofanum Arasch-Cool et in planitie sub Mimosis, 30. Sept. 1839" (syntype: HAL 86100, other syntypes: W, B, BM, BR, K, M, P, S).

*Isatis raphanifolia* Boiss., *Diagn. Pl. Or. Nov. Sér.* **1**, **6**: 19, 1845.  
"Kotschy 67, Pl. Pers. austr. ed. Hohenacker. In umbrosis promontorii pr. Gere inter Abuschir et Schiras. 19. Mart. 1842" (syntype: HAL 81726, other syntype: E).

*Kardanoglyphos nana* Schldtl., *Linnaea* **28**: 472, 1856.  
"W. Lechler pl. peruv. ed. Hohenacker, n. 2583, Agapatae, Aug. m. 1854" (holotype: HAL 85363).

*Lepidium altissimum* Rech. f., *Dansk Biol. Skr.* **10**, **3**: 14, 1958.  
"Nr. 1410, Afghanistan: Zentral-Nuristan: Mrami- (Papruk-) Paß, Westseite in Richtung Schtiwe..., 4.8.1935, ca. 3000-4200 m. leg. G. Kerstan, det. Rechinger" (type: HAL 81730). - *Stroganowia puberula* Kitam.

*Lepidium owaihiense* Cham. & Schldtl., *Linnaea* **1**: 32, 1826.  
"*Lepidium O-wahense* n., O Wahu, Anno 1816. A. v. Ch[amisso]" (holo(?) type: HAL 84102).

***Lepidium suffruticosum*** Phil., *Linnaea* **28**: 670, 1856.

"*Lepidium suffruticosum* Ph. [written by R. A. Philippi], Cordillera de la Compañía. Nov. 1853." Type citation: "In andibus prov. Santiago variis locis crescit" (possible type: HAL 84103).

***Machaerophorus matthioloides*** Schltld., *Linnaea* **28**: 469, 1856.

"W. Lechler pl. peruv. ed. Hohenacker, n. 1702, In rupestr. Cord. de Tuno, Mai [18]54" (holotype: HAL 85367).

***Menonvillea trifida*** Phil., *Linnaea* **28**: 610, 1856.

"*Menonvillea trifida* Ph. [written by R. A. Philippi], Cordillera de Santiago" (type: HAL 84113).

***Nasturtium impatiens*** Schltld. & Cham., *Linnaea* **5**: 212, 1830.

"Mexico, in monte Orizaba, leg. Deppe & Schiede" (holotype: HAL 00996, typified by John H. Beaman). - *Descurainia impatiens* (Schltld. & Cham.) O. E. Schulz.

***Nasturtium orizabae*** Schltld. & Cham., *Linnaea* **5**: 212, 1830.

"Mexico, in monte Orizaba, Sept. [18]28, leg. Deppe & Schiede" (holotype: HAL 11429, designated by an unknown person).

***Oreas involucrata*** Cham. & Schltld., *Linnaea* **1**: 30, 1826.

"Unalaschka, A. v. Ch[amisso]" (lectotype: HAL 84097).

***Redowskia sophiaefolia*** Cham. & Schltld., *Linnaea* **1**: 33, 1826.

"*Redowskia sophiaefolia* n. Redowski Kamtschatka, A. v. Ch[amisso]" (type: HAL 84106, typified by K. Werner).

***Schimpera arabica*** Hochst. & Steud. in Schimper, *Pl. Arab. Exsicc.* no. 244, 1835.

"Schimper 244, In planitie Marcha. Arab. petr. 18. Mart 1835" (type: HAL 84117).

***Sinapis baetica*** Boiss., *Elench.* 14, 1838.

"Herb. E. Boissier. *Sinapis baetica* Boiss. El. n° 14. ad limites agrorum in calidis Regn. Granat. Mai 1837." (type: HAL 84124).

***Sisymbrium andinum*** Phil., *Linnaea* **28**: 665, 1856.

"*Sisymbrium andinum* Ph. [written by R. A. Philippi], Cordillera Linares, Enero 56 P[hilibertus] G[ermain]". (type: HAL 86108).

***Sisymbrium parvifolium*** Phil., *Linnaea* **28**: 667, 1856.

"*Sisymbrium parvifolium* Ph. [written by R. A. Philippi], Cordillera Linares, Enero 56 P[hilibertus] G[ermain]". (type: HAL 84271).

***Sisymbrium petraeum*** Phil., *Linnaea* **28**: 668, 1856.

"*Sisymbrium petraeum* Ph. [written by R. A. Philippi], Cordillera Chillan, Febr. 55 P[hilibertus] G[ermain]". (type: HAL 84089).

***Subularia monticola*** Schweinf., *Beitr. Fl. Aethiop.* **1**: 76, 1867.

"In kleinen Alpen-Sümpfen 14000', Berg Dedschenn Abyss. 7. Oct. [18]50. W. Schimper" (isotype: HAL 80495, holotype: B †, other K, P, S).

***Vella spinosa*** Boiss., *Elench.* 20, 1838.

"Herb. E. Boissier. *Vella spinosa* Boiss. El. n° 20. in mont. calc. Regn. Granat. Jun. 1837. Alt. 5000'-7000'" (type: HAL 84126).

### **Original material**

***Alyssum altaicum*** C. A. Mey. in Ledeb., *Fl. Alt.* **3**: 55, 1831.

several specimen, (HAL 85348, 85349, 85350).

*Alyssum imbricatum* Schltld. ex DC., Syst. 2: 308, 1821 nom. inval.  
"Alyssum imbricatum Sibiria, Willd. dedit" (HAL 86107).

*Alyssum sibiricum* Willd., Sp. Pl. 3: 465, 1800.  
"Alyssum sibiricum Willdenow dedit" (HAL 86103).

*Alyssum spathulatum* Steph. in Willd., Sp. Pl. 3: 465, 1800.  
"Alyssum spathulatum e Sibiria, Willd. dedit" (HAL 85346).

*Alyssum tenuifolium* Steph. in Willd., Sp. Pl. 3: 460, 1800.  
"Alyssum tenuifolium e Sibiria, Willd. dedit" (HAL 86104).

*Arabis gracilis* Willd. ex Ledeb., Fl. Ross. 1: 185, 1842 nom. inval.  
"A. gracilis e Kamtschatka W[illd.] dedit" (HAL 85353).

*Arabis uralensis* Willd. ex Ledeb., Fl. Ross. 1: 120, 1842 nom. inval.  
"Arabis uralensis en lapid obs. fluviis Ural. Pallas, W[illd.]" (HAL 85355).

*Braya aenea* Bunge, Del. Sem. Hort. Dorp. 8, 1841.  
"Herb. Bunge, Braya aenea mihi. Flor. orient. altaica 1839" (HAL 84095).

*Braya rosea* Bunge, Del. Sem. Hort. Dorp. 8, 1841.  
"Herb. Bunge, Braya rosea mihi. Flor. orient. altaica 1839" (HAL 84096).

*Cardamine gilanensis* Willd. ex DC., Syst. 2: 262, 1821 nom. inval.  
"Cardamine gilanensis, herb. W[illd.], Pallas e ... Ghilan ...", "Cardamine gilanensis, herb. W[illd.], Pallas e Prov. Ghilan Persia" (HAL 85358).

*Cardamine macrophylla* Willd., Sp. Pl. 3: 484, 1800.  
several specimen, e.g. "Cardamine macrophylla e Sibiria, Pallas" (HAL 85347).

*Cochlearia arctica* Schltld. ex DC., Syst. 2: 367, 1821.  
"Cochlearia arctica in arcticis littoralis ad Obum Sibiria, Pallas", authentic specimen, probably type (HAL 26702).

*Cochlearia siliquosa* Schltld. ex DC., Syst. 2: 369, 1821.  
"Cochlearia siliquosa in Unalaschkae locis saxosis, Pallas", authentic specimen, probably type (HAL 26767).

*Cochlearia spathulata* Schltld. ex DC., Syst. 2: 369, 1821.  
"Cochlearia spathulata Ins. St. Georgii. A.v. Ch[amisso]" probably type (HAL 26755).

*Dentaria tenuifolia* Ledeb., Mém. Acad. Petersb. 5: 547, 1815.  
"Dentaria tenuifolia nob., Altai, Ledeb. ded." "Dentaria tenuifolia Ledeb. Altai" (HAL 85366).

*Dontostemon micranthus* C. A. Mey. in Ledeb., Fl. Alt. 3: 120, 1831. (HAL 84100, 84111).

*Dontostemon perennis* C. A. Mey. in Ledeb., Fl. Alt. 3: 121, 1831. (HAL 84112).

*Draba altaica* Bunge, Del. Sem. Hort. Dorp. 8, 1841.  
"Herb. Bunge Draba altaica mihi. Flor. orient. altaica 1839" (HAL 84108).

*Farsetia ramosissima* Hochst., Allg. Bot. Zeitung 24, I. Intell. 42, 1841, nom. nud.  
"Kotschy 26, ...prope pagum Cordofanum Abu-Gerad, 20. Sept. 1839", "Kotschy 305, ...ad pagum

Cordofanum Chursi, 24. Dec. 1839" (HAL 84853, 84854, other: P, BR, K, M, S, UPS, W). - *F. hamiltonii* Royle.

*Hutchinsia alba* Bunge, Del. Sem. Hort. Dorp. 1839; et Linnaea **14**: Litt. 119, 1840.

"Herb. Bunge *Hutchinsia alba* mihi. Flor. orient. altaica 1839" (HAL 84098).

*Hutchinsia pectinata* Bunge in Ledeb., Fl. Ross. **1**: 201, 1842.

"Herb. Bunge *Hutchinsia pectinata* mihi. Flor. orient. altaica 1839" (HAL 84101).

*Hymenophysa pubescens* C. A. Mey. in Ledeb., Fl. Alt. **3**: 181, 1831. (HAL 84104).

*Isatis costata* C. A. Mey. in Ledeb., Fl. Alt. **3**: 204, 1831. (HAL 84105, 84099).

*Isatis glauca* Willd. ex DC., Prod. **1**:210, 1824 nom. inval.

"*Isatis glauca* e Lusitania. C. de Hoffmannsegg" (HAL 84121).

*Lepidium niloticum* Sieber ex Steud., Nom. ed. 2, **2**: 27, 1841, nom. nud.

"ad Nilas ripas. Sieber [written by F.A. Sieber]" (HAL 84118).

*Matthiola deflexa* Bunge, Del. Sem. Hort. Dorp. 8, 1839; et Linnaea **14**: Litt. 120, 1840.

"Herb. Bunge *Matthiola deflexa* mihi. Flor. orient. altaica 1839" (HAL 84107).

*Matthiola prostrata* Hochst. & Steud. ex Steud., Nom. ed. 2, **2**: 106, 1841 nom. nud.

"Schimper 862. In arena vallis Metne prope Taifam Arab. fel. 3. Dec. [18]35" (HAL 84119).

*Matthiola stylosa* Hochst. & Steud. ex Steud., Nom. ed. 2, **2**: 106, 1841 nom. nud.

"Schimper 860. In deserto prope Dscheddam Arab. fel. 2. Feb. [18]36" (HAL 84120).

*Moricandia crassifolia* Gay ex Boiss., Fl. Orient. **1**: 389, 1867 nom. inval.

"Schimper 444. In regione Wadi Gurra Arab. petr. 25. Jun. 1835" (HAL 84115).

*Odontarrhena fischeriana* C. A. Mey. ex Turcz., Bull. Soc. Nat. Mosc. **15**: 245, 1842.

"*Odontarrhena fischeriana* m. *Alyssum* DC. Dahuria. C. A. Meyer" (HAL 84123).

*Odontarrhena obovata* C. A. Mey. in Ledeb., Fl. Alt. **3**: 61, 1831.

several specimen (HAL 85364).

*Pachyneurum grandiflorum* Bunge, Del. Sem. Hort. Dorp. 8, 1839; et Linnaea **14**: Litt. 121, 1840.

"Herb. Bunge *Pachyneurum grandiflorum* mihi. Suppl. alterum. Flor. orient. altaica 1839" (HAL 85357).

*Pteroneurum dalmaticum* Vis., Flora **12** 1. Erg. 17, 1829.

"In arenosis marit. Dalm. Vis." (HAL 85365).

*Ptilotrichum canescens* C. A. Mey. in Ledeb., Fl. Alt. **3**:66, 1831. several specimen (HAL 86101).

*Sisymbrium humile* C. A. Mey. in Ledeb., Fl. Alt. **3**: 137, 1831.

"Altai, Ledeb. dedit" (HAL 86109, 86110).

*Sisymbrium mollissimum* C. A. Mey. in Ledeb., Fl. Alt. **3**: 140, 1831. (HAL 86111).

*Smelowskia cinerea* C. A. Mey. in Ledeb., Fl. Alt. **3**: 171, 1831. (HAL 84092, 84093).

*Smelowskia integrifolia* C. A. Mey. in Ledeb., Fl. Alt. **3**: 168, 1831. (HAL 84094).

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