

**Material of type character in the Münch-Bellinghausen collection in  
the Moravian museum, Brno (BRNM)  
6. Philipp Salzmann**

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SUTORÝ K. 2007: Material of type character in the Münch-Bellinghausen collection in the Moravian Museum, Brno (BRNM). 6. Philipp Salzmann. *Acta Musei Moraviae, Scientiae biologicae* (Brno) 92: 229–243. – Fifty six Salzmann's specimens of type character deposited in BRNM are listed. Three of them are vouchers of unpublished names (in schedis).

**Key words.** Moravian Museum, Department of Botany, Münch-Bellinghausen collection, Philipp Salzmann

### Introduction

The Münch-Bellinghausen collection contains a number of original specimens collected by various botanists in the first four decades of the nineteenth century (SUTORÝ 1986). The contribution presented here is the sixth in a series, following evaluation of the specimens by W. Besser (SUTORÝ & BUZUNOVA 2000) and F. P. A. Waldstein and P. Kitaibel (SUTORÝ 2000), D. H. Hoppe (SUTORÝ 2003), A. Rochel (SUTORÝ 2004) and K. B. Presl (SUTORÝ 2006).

### Philipp Salzmann (\* ? 1781 – † 11th of May 1852)<sup>1)</sup>

German botanist, settled in Montpellier. His material and types were left to the faculty of Science University of Montpellier (MPU), other material is in. AL, AWH, B, BM, BR, CGE, CHE, CN, E, E-GL, FI, G, G-DC, G-DEL, GOET, H, HAL, K, KIEL, LE, LZ, M, MO, MPA, MW, NA, NCY, NEU, NMW, NY, OXF, P, PRC, R, US, W. (STAFLEU & COVAN 1983; <http://www.plantcollectors.co.uk>)

In 1823 Salzmann collected in the South of Spain and then went to Tanager at the beginning of summer 1823 and stayed there for the greater part of 1824. Back in Montpellier, he put 3 fascicules "*Plantae lectae in itinere Hispanico-Tingitano*" (1825, 1826, and 1827) up for sale. Although Salzmann did not publish any description or diagnosis for these collections, E. Cosson (and most 19th century botanists) accepted the sale of exsiccates (with a printed list of names) as a valid "publication". Two lists of

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<sup>1)</sup> He died in 1852, not in 1851 as generally given (COSSON 1881).

plants collected by Salzmänn in Morocco and offered for sale were published in OPIZ (1826). Some duplicates were distributed after Salzmänn's death, incorrectly dated 1835.

It must be borne in mind that the holotypes of his names published by other botanists were in the hands of those botanists and that his specimens in MPU can only be isotypes. Another complication is due to the fact that Salzmänn did not use collection numbers, but counted and numbered sets he sold or exchanged with other botanists: thus isotypes of the same taxon in different collections have different numbers and remained unnumbered in his own collection (now MPU, SCHÄFER 1994). Finally, some of his abundant duplicates were distributed much later (after 1890) with labels headed "Institut de Botanique de Montpellier".

Fifty-six specimens of plant taxa bearing Salzmänn's name were found in the Münch-Bellinghausen collection, 3 of them indicated below as "*in schedis*" were probably not published. Some of the specimens have Salzmänn's original printed or handwritten labels and some were rewritten by Konstantin Münch-Bellinghausen. (KMB).

#### List of specimens

*Allium subvillosum* Salzmänn ex J. A. Schult et J. H. Schult. in Roem. & Schult., *Syst. vegetabilium* 7: 1104, 1830.

[= *A. subhirsutum* L.]

**Text of the handwritten label:** *Allium subvillosum* Tanger in sabulosis maritimis

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU - 7 isotypes, holotype in M.

**Notes.** Protologue: "*in sabulosis maritimis prope Tanger: Salzmänn*".

*Alopecurus candicans* Salzmänn ex Steud., *Nomencl. Bot. ed. 2*, 1: 61, 1840 nom. inval. *A. pratensis* var. *candicans* (Salzm.) Ball., *Jour. Linn. Soc. London (Bot.)*, 707, 1878, nom. nudum; *Alopecurus pratensis* var. *candicans* Salzmänn ex Trabut in Battandier & Trabut, *Flore de l'Algérie II Monocotyledones*: 145, 1895.

[= *Alopecurus pratensis* L.]

**Text of the handwritten label:** *Alopecurus candicans* in fossis tingitanis

**Acquired:** 1829, 1 ex.

**Duplicates:** MPU.

**Notes.** STEUDEL (1840) published the name as "*candicans* Salzm. *pratensis*". It is without description and given in the synonymy of *A. pratensis* L. Presl (1844) p. 121 writes: "...est *A. pratensis* var. aut species valde affinis; differt tantum colore glumarum". Ball writes in his combination: "*A. pratensis* var. *candicans* (Salzm.) *Exsicc Tanger* (Salzm. *Exsicc.*)?" without added description. Trabut in Battandier & Trabut (1895) page 145 described it with a short validating description in French: "*remarquable par un dépôt cireux abondant qui lui donne une coloration blanchâtre*" (= abundant waxy deposit

which gives a whitish coloration). The holotypus is from “Herbier Trabut” and now in MPU-Maire and was distributed from the Institut de Botanique Montpellier after 1889 with the wrongly-dated label “leg. Salzmann 1835” as Salzmann collected in Tangier in 1823/24. One of the duplicates in the General Herbarium at MPU has the month “Aprili” in Salzmann’s handwriting and as Salzmann arrived in Summer 1823 in Tangier this means the plant was collected in April 1824. There is another isotype in MPU-Maire and there are five more isotypes in the General Herbarium MPU.

*Ammi daucoides* Salzmann ex DC. *Prodromus* **4**: 113, 1843.  
[=*Ammiopsis daucoides* (Salzmann ex DC.) Boiss. *Diagn. Ser. 2*, **2**: 97, 1856]

**Text of the handwritten label:** *Ammi daucoides in agris tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** De Candolle gives in protologue “*Salzm! Pl. Exs. Ann. 1825, circa Tanger*”.

*Andryala laxiflora* DC. *Prodr.* **7**, **1**: 246, 1838.

**Text of the handwritten label:** *Andryala laxiflora Tanger iter frutices*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** “*in Mauritania circa Tanger legit. cl. Salzmann et circa Malagam cl. Boissier. Rothia laxiflora Salzm.! pl. exs. 1825.*” The name *Rothia laxiflora* is invalid and it was used as synonymum.

Apparently Salzmann sent the first specimens under the name *Rothia laxiflora* in 1825 but changed his mind that same year and adopted *Andryala laxiflora*. The specimen under discussion was probably sent later under the correct De Candolle name.

*Apargia verna* Salzmann ex Delile, *Sem. Hort. Monsp.* 1836: 22, 1837 nom. inval. superfl.; *Kalbfussia salzmannii* Schultz-Bip. *Flora* **16**: 724, 1833

[= *Leontodon salzmannii* (Schulz) Ball, *Jour. Linn. Soc. London (Bot.)*. 545, 1878 = *Leontodon vernus* (Salzm.) Pau in *Mem. Mus. Ci. Nat. Barcelona, Ser. Bot.* **1(3)**: 22, 1925, non vidi]

**Text of the handwritten label:** *Apargia verna in vineis tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Delile: “*Planta inter campestris Portus-Juvenalis à nobis observata dein à Cl. Salzmanno detecta in agro tingitano Africae.*”

Schulz: “*in vineis tingitanis (Fatz et Marocco) vere anni 1824 legit speciem nostram cl. Salzmann et sub nomine Apargia verna communicavit.*”

Ball writes in his combination: “*Nomen triviale Salzmannianum vernus prioritate gaudet, sed nolui mutare nomen ab auctoribus omnibus recentioribus acceptum*”.

FINCH & SELL (1976) use Ball’s combination.

*Arenaria caespitosa*  $\beta$  *verna* Salzmänn in schedis

**Text of the overwritten label:** *Von den Pyreneen*

**Acquired:** 1 ex, 1819.

**Duplicates:** MPU.

*Arenaria hispida* Salzmänn ex Presl, *Fl. Sic.* 164, 1826, nom. inval. in syn. *Arenariae salzmanni* Presl. et non L.

[= *Arenaria salzmanni* Presl?]

**Text of the overwritten label:** *Von St. Guilhelm du desert*

**Acquired:** 1819, 1 ex.

**Notes.** Presl gives the citation of Salzmänn's exsiccate "*A. hispida. Salzm. Exsic. non L.*" as the only cited material in his description of *A. salzmanni*. The distributed specimens should be considered as syntype for this name.

*Arenaria rosea* Salzmänn ex Ball., *Jour. Linn. Soc. London (Bot.)* 16: 365, 1878, nom. inval. in syn. *A. emarginatae* Brot.; *A. emarginata* var. *salzmanni* Willk. *Icon. Descr. Pl. Nov.* 1: 94, 1852.

[= *A. emarginata* subsp. *salzmanni* (Willk.) Maire in Jahandiez et Maire, *Cat. Maroc*, 206 n 210, 1932]

**Text of the handwritten label:** *Arenaria rosea Tanger in saxosis subhumidis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** WILLKOMM (1852): "*A. rosea Salzm. ined. in pl. Tingit. exs.*"

*Arenaria tenuifolia*  $\beta$  *viscosa* Salzmänn in schedis

**Text of the overwritten label:** *Von Montpellier*

**Acquired:** 1819, 1 ex.

**Duplicates:** MPU.

*Balsamina corymbosa* Salzmänn *Flora* 4: 112, 1821.

[= *Plagiatus flosculosus* (L.) S. Alavi et Heywood]

**Text of the overwritten label:** *In montosis Corsicae*

**Acquired:** 1 ex, Pl. sel. Eur. austr. Fasc. 1., 1821.

**Notes.** There is no locality given in the protologue.

There is in the Salzman's article "*Kurze Bemerkungen auf einer botanischen Excursion nach Corsica, im Jahre 1820*" an announcement by Ziz that "*Salzmänn wird nächstens einen Fascicel seltener Pflanzen, grösstenteils auf dieser Reise nach Corsica gesammelt, zum verkaufe anbieten*".

***Bupleurum foliosum*** Salzmänn ex DC., *Prodr.* **4**: 133, 1830

[= name in current use]

**Text of the handwritten label:** *Bupleurum foliosum in ericetis tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** “in Mauritania circa Tanger”

***Bupthalmum aureum*** Salzmänn ex Steud., *Nomencl. Bot. ed. 2*, **1**: 238, 1840, nom. inval. in syn. *Pallensis spinosa*.

[= *Pallensis spinosa* L.]

**Text of the handwritten label:** *Bupthalmum aureum in collibus tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Steudel published the name as “*aureum Salzm. Pallensis spinosa*”. It is without description and given in the synonymy of *Pallensis spinosa*.

***Cachrys libanotis*** Salzmänn ex Ball., *Jour. Linn. Soc. London (Bot.)* **16**: 463, 1878 nom. inval. in syn. *Hippomarathrum cristatum*

[= *Hippomarathrum cristatum* DC.]

**Text of the overwritten label:** *In sabulosis circa Tingidem*

**Acquired:** 1826, 1 ex.

***Carduus myriacanthus*** Salzmänn ex DC., *Prodr.* **6**: 624, 1838.

**Text of the handwritten label:** *Carduus myriacanthus Tanger in vineis sabulosis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** “in Africa boreali ad Tanger (Salzm.!) et Mogador (Broussonet!)”

***Caucalis cretica*** Salzmänn ex Boiss., nom. inval., *Fl. Orient.* **2**: 1071, 1872 in syn. *Orlaya maritima* â *breviaculeata*

[= *Pseudorlaya minuscula* (Pau ex Font Quer) Lainz 1956]

**Text of the overwritten label:** *In sabulosis maritimis circa Malagam*

**Acquired:** 1826, 1 ex.

**Duplicates:** MPU.

***Centaurea raphanifolia*** Salzmänn ex DC., *Prodr.* **6**: 591, 1838, nom. inval. in syn.  
*C. diluta* Ait.  
[= *C. diluta* Ait.]

**Text of the handwritten label:** *Centaurea raphanifolia in agris tingitanis*

**Acquired:** 1828, 1 ex + fragment.

**Duplicates:** MPU.

***Chironia suffruticosa*** Salzmänn ex Griseb., *Gen. et Sys. Gent.* 141, 1839  
[= *Erythraea centaurium* Pers.]

**Text of the label:** *o.e.p. Chironia suffruticosa in fruticetis tingitanis*

**Acquired:** 1809, 1 ex.

**Duplicates:** MPU.

**Notes.** "...*Tanger* (*Salzm.*)..."

***Chlora crenulata*** Salzmänn ex Griseb., *Gen. et Sp. Gent.* 118, 1838 nom. inval. in syn.  
*Ch. imperfoliatae* L.  
[= *Chlora imperfoliata* L.]

**Text of the handwritten label:** *Chlora crenulata Tanger in pascuis maritimis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** A short diagnosis is given: "*(Tanger) forma glauca superne ramoso-corymbosa, foliis ovatis obtusis, floris amplis*". PRESL (1844) considers it as "*Ch. lanceolata* Ziz." [= *Ch. lanceolata* Koch et Ziz]

***Cyperus turfusus*** Salzmänn ex Kunth, *Enum. Pl.* **2**: 7, 1837 nom. inval. in syn.  
*Cyperus eragrostidis* Vahl.  
[= *Pycreus mundii* Nees]

**Text of the handwritten label:** *Cyperus turfusus Tanger in turfosi*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** "*C. turfusus Salzmänn in herb Lucae*" with supplementing note "*Planta tingitana a Salzmanno lecta differt involucro brevi, pentaphyllo squamisque dorso epunctatis*".

***Cytisus intermedius*** Salzmänn ex Presl, *Bot. Bemerk.* 51, 1844 nom. nudum in syn.  
*Calycotome intermedia* Presl.  
[= *Calycotome intermedia* Boiss. ex Rchb.,  *Ic. Fl. germ.* **22**: 33, 1867]

**Text of the handwritten label:** *Cytisus intermedius in collibus tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** PRESL (1844) in synonymies cites “*Cytisus intermedia* Salzm. pl. exs. ting. Steud. nom. ed. 2,1: 477, 1840”, but Steudel has only the name “*C. intermedius* Salzman. Afr. borealis.” also without description. REICHENBACH (1867) cites name “*Cytisus intermedius* Salzmann exs.! et apud Presl Bot. Bem. 51” and specimens “*Tanger Salzmann!* – *Algerium: Oran Boissier! Reuter! Balansa! Mostaganem Balansa!*”.

*Cytisus pentaphyllus* Salzmann ex Walpers, *Repert.* **1**: 623, 1842, nom. inval. in syn. *Leobordea lupinifolia* Boiss.

[=*Lotonontis lupinifolia* (Boiss.) Bentham]

**Text of the handwritten label:** *Cytisus pentaphyllus* Malaga inter silices

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** PRESL (1844) p. 51 writes: “est *Leobordea lupinifolia* Boiss. sed ad Leobordeam haec species singularis non pertinent, cum characteribus genericis non respondet; juxta meam sententiam est *Argyrolobium*, inde *A. pentaphyllum* Presl. Stylus basi planus.” *A. p.* is not given in IK.

*Erodium maculatum* Salzmann ex Presl, *Bot. Bemerk.* 26, 1844, nom. inval.

[= *E. cicutarium* L'Hér. ex Ait.]

**Text of the handwritten label:** *Erodium maculatum* in agris tingitanis

**Acquired:** 1828, 1 ex + fragment.

**Duplicates:** MPU.

**Notes.** Presl writes “*Erodium maculatum* Salzm. pl. exs. ting. – est *E. cicutarium á praecox* (*Geranium praecox* Cav. diss. t. 126. f. 2)”. He did not intend to publish a new name.

*Erodium viscosum* Salzmann ex Delile, *Linnaea* **13**: Littérature-Bericht 104, 1839 in syn. *E. salzmanni*; *Erodium salzmanni* Delile, *Ind. Sem. Hort. Monsp.* 1838: 6, 1839 (January); Delile, *Linnaea* **13**: Littérature-Bericht 104, 1839.

[= *E. cicutarium* L'Hér. ex Ait.]

**Text of the handwritten label:** *Erodium viscosum* Malaga in maritimis

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU, BP - herb gen.

**Notes.** PRESL (1844) writes: “*Erodium viscosum* Salzm. pl. exs. ting. (ad Malagam in incultis lectum) – est *E. hirsutum* Willd., est ergo *Florae europeae novus civis*”.

Delile in both sources with the same words: “...unde Cl. Salzmannus nomen *Erodii viscosi* primum imposuerat plantae in Hispaniá prope urbem Malaga”.

***Euphorbia sphaerococca*** Salzmann ex Coss., *Notes Crit.* 45 1849, nom. inval. in syn. *E. akenocarpae*.  
[= *E. akenocarpa* Guss.]

**Text of the handwritten label:** *Euphorbia sphaerococca in agris tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

***Euphorbia stellulata*** Salzmann, *Flora 4:* 110, 1821.

[= *E. pterococca* Brot.]

**Text of the overwritten label:** *Prope Ajaccio in herbis umbrosis*

**Acquired:** Pl. sel. Eur. austr. 1821, 2 ex.

**Duplicates:** MPU.

**Notes.** "Sie wächst bei Ajaccio an schattigen Orten..."

***Euphrasia squarrosa*** Salzmann ex Rchb., *Fl. Germ. Excurs.* 360, 1831, nomen nudum.

[= *Bartsia purpurea* Ball]

**Text of the handwritten label:** *Euphorbia squarrosa in fruticetis Tingitanis*

**Acquired:** s.d., 2 ex.

**Duplicates:** MPU.

**Notes.** Reichenbach considers the name *E. s.* Salzmann as synonymous with *Odontites viscosa* Lam. Presl (1844) as *Lasiopera squamosa* Presl. But he also gives it without description.

***Festuca incrassata*** Salzmann ex Loiseleur, *Fl. Gall. ed 2, 1:* 85, 1828 nom. illeg., non L. 1753; *Cutandia incrassata* (Salzm. ex Loiseleur) Bentham et Jackson, *Index Kew*, 675, 1893; B. et T., *Fl. Alg. Mon.* 238, 1895; *Vulpia incrassata* (Salzm. ex Loiseleur) Parl., *Ann. Sc. Nat. ser. 2*, 15, 298, 1841; *Vulpiella incrassata* (Salzm. ex Loiseleur) Andreanszky, *Ind. Hort. Bot. Budapest* 1934, 1935: 95.

[= *Vulpiella stipoides* (L.) Maire 1942]

**Text of the overwritten label:** *Von Montpellier*

**Acquired:** 1819, 2 ex.

**Notes.** "in agro Ruscionensi et circa Monspelium, ex D. Requien; in Corsica (Salz.)"

***Galium barrelieri*** Salzmann, *Flora 4:* 107, 1821.

[= *G. ellipticum* Willd.]

**Text of the overwritten label:** *In montibus umbrosis Corsicae*

**Acquired:** Pl. sel. Eur. austr., 1821, 1 ex.

**Duplicates:** MPU.

**Notes.** “*Auf den Corsischen, schattigen Hügeln, am Fusse höherer Berge ist dieses Galium nicht selten.*”

***Genista tricuspidata*** Salzmann ex Spach, *Ann. Sc. Nat. Sér. 3, 2:* 274, 1844 nom. inval. in syn. *G. gibraltaricae*  
[= *G. gibraltariica* DC.]

**Text of the overwritten label:** *In collibus tingitanis*

**Acquired:** 1826, 1 ex.

**Duplicates:** MPU.

**Notes.** “...*nec non in Mauritania prope Tingi:dem*”.

***Helianthemum multiflorum*** Salzmann, *Flora 8:* 744, 1825, nom. nudum; *H. multiflorum* Salzmann in Opiz, *Naturalientausch 11:* 486, 1826 nomen nud.; Salzmann ex Dunal, *Mém. Acad. Montp. Sect. Sc. 1:* 2, 1847, *Halimium multiflorum* (Salzm. ex Dunal) Willk., *Icon. Descr. Pl. Nov. 2:* 67, 1859  
[= *Halimium halimifolium*(L.)Willk. ssp. *multiflorum* (Salzm. ex Dunal) Maire]

**Text of the overwritten label:** *in collibus tingitanis*

**Acquired:** 1826, 1 ex.

**Duplicates:** MPU.

**Notes.** Dunal cited Salzmann's collections “*circa Tanger (Salzmann) 1825*” (*sic!*). He presented his contribution on 18 January 1847. According to STAFLEU & COVAN (1983), it was issued in 1847. There exist prints dated 1851 bound together with other contributions presented in the years 1847-50.

***Holcus annuus*** Salzmann ex Meyer, *Verz. Pfl. Cauc. 17,* 1831  
[= name in current use]

**Text of the handwritten label:** *Holcus annuus in pascuis tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Salzmann ex Trin. *Mém. Acad. Imp. Scienc. Pétersb. Sér. 6. vol. 5. part 2* (1840) 88, nom. inval. in synonymi *Holci setacei* Trin. atque nom. superfl.

***Holcus tuberosus*** Salzmann ex Trin., *Mém. Acad. Imp. Scienc. Pétersb. Sér. 6, vol. 5, part 2* (1840) 86; *Holcus lanatus* f. *tuberosus* (Salzm.) Coss. et Dur., *Exp. Sc. Alg. 99,* 1854-1867; *Holcus lanatus* var. *tuberosus* (Salzm.) Maire in Jahandiez et Maire, *Cat. Maroc. 930.*  
[= *H. lanatus* L.]

**Text of the handwritten label:** *Holcus tuberosus in fruticetis tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** "Tingit, Madeira".

*Hypericum suberosum* Salzmann ex Boiss., *Voy. Bot. Midi Esp.* **2**: 115, 1840, nom. inval. in syn. *Hyperici pubescentis* Boiss.

**Text of the handwritten label:** *Hypericum suberosum / Tanger in sabulosis maritimis*

**Acquired:** 1829, 1 ex, problematical designation, specimen probably lost, only the label.

**Duplicates:** MPU.

**Notes.** Boissier published his name *Hypericum pubesces* and comments on the taxon: "Affinis *H. tomentosum* et forsan ejus varietas? Attamen proper folia longiora glabrescentia viridia, flores duplo majores, sepala multo magis attenuata longiusque mucronata, nunquam margine fimbriata, aspectumque omnino diversum conjungere non audio".

In an unauthorised reprint in 1840 he publishes the Salzman name based on Salzmann's exsiccate as synonymous to *H. pubescens* Boiss Elench. 26, 1838. He gives the locality "...circà Tanger (Salzm.)." and comments it: "Cette espèce, voisine de l'*H. tomentosum*, en est bien distincte par ses tiges droites et élevées, ses feuilles jamais incanes, mais pubescentes ou hérissées de poils laineux, ses fleurs deux fois plus grandes, ses sépales bien plus atténués et plus longuement mucronés, jamais frangés au bord. Les échantillons du royaume de Maroc sont couverts de poils laineux plus longs et plus abondants que les miens; c'est d'après eux la figure a été faite. Je'ai eu connaissance du nom proposé par M. Salzmann qu'après l'impression de mon Elenchus, et j'aurais pu d'ailleurs l'adopter, la plante ne présentant à ma connaissance rien de subéreux dans aucune de ses parties."

PRESL (1844) gives this name as synonymous with *Hypericum tomentosum*.

*Inula dumetorum* Salzmann ex DC., *Prodr.* **5**: 479, 1836 nom. inval. in syn. *Pulicariae odora* Rchb.

[= *Pulicaria odora* Rchb.]

**Text of the handwritten label:** *Inula dumetorum in fruticetis tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

*Jasione arenaria* Salzmann ex Ball., *Jour. Linn. Soc. London (Bot.)* **16**: 552, 1878 nom. inval. in syn. *J. corymbosae* Poir.

[= *J. corymbosa* Poir.]

**Text of the handwritten label:** *Jasione arenaria in sabulosis in Tanger*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

*Leersia mauritanica* Salzmänn ex Trin., *Mém. Acad. Imp. Scienc. Pétersb.* Sér. 6, vol 5, part 2 (1840) 174.

[= *Leersia hexandra* Sw.]

**Text of the handwritten label:** *Leersia mauritanica Tanger in paludosis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** “Egypt. Tingit”.

*Lythrum tribracteatum* Salzmänn ex Tenore, *Ind. Sem. Hort. Neap.* 13, 1830 [non vidi]

[= *L. salzmanni* Jord., *Obs. Pl. Crit.* 5: 42, 1847]

**Text of the label:** without any data.

**Acquired:** 1829, 1 ex.

**Duplicates:** MPU.

*Medicago muricata* Salzmänn ex Ball., *Jour. Linn. Soc. London (Bot.)* 16: 416, 1878, nom. inval. in syn. *M. intertextae* All.

[= *M. ciliaris* Krok?]

**Text of the overwritten label:** 1826 Von Salzmänn bey Tanger im Sande

**Acquired:** 1820, 1 ex.

**Duplicates:** MPU.

*Narcissus jonquilla*  $\beta$  *uniflora* Salzmänn in schedis (?)

**Text of the label:** ..no 3059

**Acquired:** 1819, 1 ex.

*Narcissus serotinus* Salzmänn ex Schousb., *Iagttag. Vextrig. Marokko* 155, 1800, nom. illeg. non L.

[= *Narcissus elegans* Spach.]

**Text of the overwritten label:** *In collibus aridis circa Tingidem*

**Acquired:** 1826, 1 ex.

**Duplicates:** MPU.

**Notes.** In the above-mentioned quotation appears this name in Index Kewensis. In the original work Salzmänn’s name is not mentioned.

*Oenanthe callosa* Salzm. ex DC., *Prodr.* **4**: 137, 1830 [late September 1830].

**Text of the handwritten label:** *Oenanthe callosa* Tanger in graminosis umbrosis

**Acquired:** 1827, 2 ex.

**Duplicates:** MPU.

**Notes.** "circa Tanger".

*Ononis filicaulis* Salzm. ex Boiss., *Voy. Bot. Espagne* **2**: 153, 1840.

[= name in current use]

**Text of the handwritten label:** *Ononis filicaulis* in collibus tingitanis

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Behind the Latin description is given "*O. filicaulis* Salzm. Pl. tingit. exs." The geographical data are "*In arenosis maritimis regionis calidae inter Marbella et Estepona Fl. Mai. Hab. in Hispania australi, regno Maroccoano (Salzm.)*".

*Orobanche densiflora* Salzm. ex Rent. in DC., *Prodr.* **11**: 19, 1847.

**Text of the handwritten label:** *Orobanche densiflora* Tanger in sabulosis maritimis

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** "*in arenosis maritimis regni Maroccani prope Tingidem*"

*Osyris quadrifida* Salzm. ex DC., *Prodr.* **14**: 633, 1857, nom. inval., in syn. *O. lanceolatae*

[= *O. lanceolata* Hochst. et Steud. ex DC.]

**Text of the handwritten label:** *Osyris quadrifida* ♀♂ in collibus tingitanis

**Acquired:** 1828, 2 ex, ♀+♂.

**Duplicates:** MPU.

**Notes.** "...circa Tanger..."

*Passerina tingitana* Salzm. ex Meisn. in DC., *Prodr.* **14**: 554, 1857, in syn. *Thymelaeae villosae* Endl.

[= *Thymelaea villosa* (L.) Endl.]

**Text of the handwritten label:** *Passerina tingitana* in ericetis tingitanis

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** "...Tanger...". PRESL (1844) writes: "... est *Daphne villosa* Lin. seu *Chlamydanthus villosus* Meyer."

***Plantago agrestis*** Salzmann ex Steud., *Nomencl. Bot.* ed. 2, **2**: 347, 1841, nom. nudum.  
[= *P. psyllium* L.]

**Text of the handwritten label:** *Plantago agrestis* Salzm. Malaga in agris.

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Steudel has only “*Salzm. Afr. bor.*” without any description. PRESL (1844) holds it for his *P. sicula* Presl (= *Plantago psyllium* L.).

***Pyrethrum arvense*** Salzmann ex DC., *Prodr.* **6**: 54, 1838.  
[= *Chrysanthemum tingitanum* Bernh.; *Matricaria glabra* Ball.]

**Text of the handwritten label:** *Pyrethrum arvense* in agris tingitanis

**Acquired:** 1828, 1 ex.+f.

**Notes.** “in arvis Barbariae circa Tanger”

***Ruta divaricata*** Salzmann Flora 4: 109, 1821.  
[= *R. corsica* DC.]

**Text of the overwritten label:** *In montibus Corsicae*

**Acquired:** Pl. sel. Eur. austr. 1821, 1 ex.

**Duplicates:** MPU.

**Notes.** No locality is given in the protologue.

***Satureja inodora*** Salzmann ex Benth., *Lab. Gen. Sp.* 354, 1834 nom. illeg. non Host 1831.

**Text of the handwritten label:** *Satureja inodora* in ericetis tingitanis

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Locality given in protologue “Salzm. Pl. Tang. Exs.”

***Scabiosa semipapposa*** Salzmann ex DC., *Prodr.* **4**: 658, 1830  
[= *Sixalix semipapposa* (Salzmann ex DC.) Greuter & Burdet in *Willdenowia* **15(1)**: 76 (1985)]

**Text of the handwritten label:** *Scabiosa semipapposa* in agris tingitanis

**Acquired:** 1828, 1 ex.+2 fragments.

**Duplicates:** MPU.

**Notes.** Locality given in protologue – “Circa Tanger et Magador.”

***Scirpus longibracteatus*** Salzmann ex Rchb., *Flora* **13**: 497, 1830 [cit. sec. Index Kewensis, non vidi].  
[= *S. holoschoenus* L.]

**Text of the handwritten label:** *Scirpus longibracteatus /sic/ Tanger in sabulosis maritimis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

***Senecio foliosus*** Salzmann ex DC., *Prodr.* **6**: 351, 1838.

**Text of the handwritten label:** *Senecio foliosus Tanger in sabulosis maritimis*

**Acquired:** 1828, 1 ex.+ fragment.

**Duplicates:** MPU.

**Notes.** “in Mauritania circa Tanger”

***Senecio hyemalis*** Salzmann ex Ball., *Jour. Linn. Soc. London (Bot.)* **16**: 514, 1878, nom. inval. in syn. *S. leucanthemifolii* Poir. 1789  
[= *S. leucanthemifolius* Poir.]

**Text of the handwritten label:** *Senecio hyemalis in vineis tingitanis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

***Silene hispida*** Salzmann ex Ball., *Journ. Linn. Soc.* **16**: 358, 1878 nom. inval. in syn. *S. hirsuta* var. *tuberculata* Ball.  
[= *S. tuberculata* (Ball) Maire et Weiller, *Fl. Afr. Nord.* **10**: 95, 1963]

**Text of the handwritten label:** *Silene hispida Tanger inter fruticetis*

**Acquired:** 1828, 1 ex.

**Duplicates:** MPU.

**Notes.** Ball: “*Eadem varietatem, nisi falor, sistit S. hispida, Salzm. Exsicc. Tingitana.*”  
PRESL (1844): “*est S. laxiflora Brot.*”.

***Statice muscosa*** Salzmann ex Boiss. in DC., *Prodr.* **12**: 686, 1848 nom. inval. in syn. *S. ovalifolia* Poir. in Lam. 1817, *Encycl. Méth., Bot., Suppl.* **5**: 237.  
[= *Armeria leucocephala* Koch ?]

**Text of the handwritten label:** *Statice muscosa Tanger in maritimis*

**Acquired:** 1828, 2 ex.

**Notes.** “... regno Maroccano...”

*Vicia littoralis* Salzmann, *Flora* **4**: 110, 1821 nom. illeg. non Jacq. 1760  
[= *Vicia villosa* Roth]

**Text of the overwritten label:** *In sabulosis maritimis prope Bastia in Corsica*

**Acquired:** Pl. sel. Eur. austr., 1821, 1 ex.

**Notes.** No locality is given in protologue.

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