

Franchet 1891 年发表的十六种植物名称的模式指定*

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摘要: 在澄清 *Pedicularis stenantha* 的分类学地位时, 查阅 *Pedicularis stenantha* 和其他一同发表的 16 个种 (*Cyananthus petiolatus*, *Gentiana crassuloides*, *Gentiana rosularis*, *Primula vialii*, *Salvia brevilabra*, *Salvia tatsienensis*, *Salvia tricuspis*, *Saussurea caudata*, *Saussurea scabrida*, *Saussurea souliei*, *Saussurea tatsienensis*, *Saxifraga longistyla*, *Senecio plantaginifolius*, *Senecio setchuenensis*, *Senecio souliei* 和 *Tanacetum myrianthum*), 其模式材料保存在巴黎自然历史博物馆 (P)。这些种是 Franchet 基于 J. A. Soulié 采集的材料于 1891 年发表, 但是 Franchet 在原文中只引证了产地信息 (“Se-tchuen, circa Ta-t sien-lou”), 没有提供具体的材料采集号。*Pedicularis stenantha* 的后选模式在早期的研究中已指定, 本研究对其他 16 个名称的原始材料进行了讨论, 并对后选模式进行指定。

关键词: A. R. Franchet; J. A. Soulié; 后选模式指定; 四川

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Typification of Sixteen Plant Names Described by Franchet in 1891

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Abstract: In this study, original materials of 16 names, *Cyananthus petiolatus*, *Gentiana crassuloides*, *Gentiana rosularis*, *Primula vialii*, *Salvia brevilabra*, *Salvia tatsienensis*, *Salvia tricuspis*, *Saussurea caudata*, *Saussurea scabrida*, *Saussurea souliei*, *Saussurea tatsienensis*, *Saxifraga longistyla*, *Senecio plantaginifolius*, *Senecio setchuenensis*, *Senecio souliei*, *Tanacetum myrianthum*, described by Franchet in 1891 were examined. After tracing potential original material, the lectotype of 16 names was designated or further designated in this study.

Key words: A. R. Franchet; J. A. Soulié; lectotypification; Sichuan

A. R. Franchet (1834–1900) is a famous French botanist working at the Paris Muséum National d’Histoire Naturelle (P). He described more than two thousands new taxa from the flora of China and Japan (see <http://www.tropicos.org/>), primarily based on the collections made by French Catholic missionaries

in China, e. g., A. David, P. J. M. Delavay, P. G. Farges, and J. A. Soulié (Stafleu and Cowan, 1976).

In an article, Franchet (1891) described 17 new species, i. e., *Cyananthus petiolatus* Franchet, *Gentiana crassuloides* Franchet, *Gentiana rosularis* Franchet, *Pedicularis stenantha* Franchet, *Primula*

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vialii Delavay ex Franchet, *Salvia brevilibra* Franchet, *Salvia tatsienensis* Franchet, *Salvia tricuspidis* Franchet, *Saussurea caudata* Franchet, *Saussurea scabrida* Franchet, *Saussurea souliei* Franchet, *Saussurea tatsienensis* Franchet, *Saxifraga longistyla* Franchet, *Senecio plantaginifolius* Franchet, *Senecio setchuenensis* Franchet, *Senecio souliei* Franchet, and *Tanacetum myrianthum* Franchet, all based on collections by J. A. Soulié, and in the case of *Primula vialii* additionally based on an additional collection by P. J. M. Delavay. Franchet just cited the locality (“Setchuen, circa Ta-tsien-lou”), but he did not designate numbered collections as type in the protologue. During preparation of the proposal of *Pedicularis stenantha* (Yu *et al.*, 2013), we have checked the original materials of *P. stenantha* and the other 16 names. Based on collections of J. A. Soulié deposited at the herbarium of P, we find that original materials of 16 names are labeled as “Plantes de TA-TSIEN-LOU (SETCHUEN). M. l’abbé SOULIÉ Reçu le 6 juin 1891.” [sic!], except specimen of *Primula vialii* collected by J. A. Soulié unavailable. The sheet P02969035 has been designated as lectotype of *P. stenantha* in the proposal (Yu *et al.*, 2013). The other 19 sheets with Franchet’s script representing 15 names are the original material that collected by A. J. Soulié, and four sheets of no. 3604 collected by P. J. M. Delavay are the original material of *Primula vialii*. After tracing potential original material of the remaining 16 names, we discussed the selection of the lectotype for their names.

Notes on typification of 16 names

1. *Cyananthus petiolatus* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 147. 1891 ≡ *C. incanus* subsp. *petiolatus* (Franch.) D. Y. Hong & L. M. Ma in Acta Phytotax. Sin. **29** (1): 44–45. 1991. Lectotype (designated here): CHINA. Sichuan; Kangding (Ta-tsien-lou), J. A. Soulié s. n. (lectotype, P!, P00237914; syntype, P!, P00237913).

Two sheet specimens correspond with the original material, while no collection number to deter-

mine that both specimens are a single gathering. Therefore, two specimens are conservatively treated as two gatherings. During the taxonomic revision of *Cyananthus*, Shrestha (1997) listed the type information as “Sichuan, China: Tachienlou, M. Soulie s. n. (Holotype! P, isotypes! LE, P)” [sic]. According to Art. 7.11 & 9.21, the “holotype” by Shrestha (1997) must be treated as the lectotype. Herein, the lectotype includes two specimens conserved at P, whereas Shrestha (1997) provided of a “holotype” photo referring to the specimen P00237914, which is adopted as the lectotype of *C. petiolatus* herein, and another specimen P00237913 is treated as a syntype.

2. *Gentiana crassuloides* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 148. 1891, non Franch. & Bur. 1891, *nom. illeg.* Lectotype (designated here): CHINA. Sichuan; Kangding (Ta-tsien-lou), J. A. Soulié s. n. (lectotype, P!, P00513891).

Sheet P00513891 is the only original material of *Gentiana crassuloides*, which is selected as the lectotype. When Franchet describing *G. crassuloides*, he apparently overlooked that Bureau and himself (1891) has described this species in an earlier publication on the basis of a collection by Prince Henri d’Orléans in 1890. Both names refer to the same species, but they are based on different gathering as type, therefore, we conservatively treated Franchet’s name as later homonym herein.

3. *Gentiana rosularis* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 148. 1891 = *G. szechenyii* Kanitz in Pl. Exped. Szechenyi in As. Centr. Coll. 40. 1891. Lectotype (designated here): CHINA. Sichuan; Kangding (Ta-tsien-lou), J. A. Soulié s. n. (lectotype, P!, P00487369).

Only sheet P00487369 corresponds to the original material of *Gentiana rosularis*, and it is chosen as the lectotype. In the current usage, *G. rosularis* is treated as a synonym of *G. szechenyii* (Marquand, 1937; Ho and Pringle, 1995). Both *G. rosularis* and *G. szechenyii* were published in 1891, however, we

cannot determined which name is an earlier one.

4. *Primula vialii* Delavay ex Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 148. 1891. Lectotype (designated here): CHINA. Yunnan: Lankong, J. M. Delavay 3604 (lectotype, P!, P04907322; isolecotypes, P!, P04907316, P04907317, P04907320). Syntype: CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié s. n. (syntype, P, not seen).

In the protologue, Franchet just listed two collectors, J. M. Delavay and J. A. Soulié, however, no collection number was specified. Herein, we find that a gathering J. M. Delavay 3604 with four sheets corresponds to the original material, while no potential type material by J. A. Soulié is available. The sheet P04907322 is selected as the lectotype of *Primula vialii*, because only this sheet has an original label by Delavay, which corresponds with the type information presented in the protologue.

5. *Salvia brevilabra* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 149. 1891. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié s. n. (lectotype, P!, P02871920).

Sheet P02871920 is the only original material of *Salvia brevilabra*, and it is designated as the lectotype.

6. *Salvia tatsienensis* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 150. 1891 = *S. przewalskii* Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg **27**: 526. 1881. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié s. n. (lectotype, P!, P00714816).

Sheet P00714816 is the only original material of *Salvia tatsienensis*, which is selected as the lectotype. For current usage, this species was treated as a synonym of *S. przewalskii* (e. g., Sun and Wu, 1977; Li and Hedge, 1994).

7. *Salvia tricuspis* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 150. 1891. Lectotype (designated

here): CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié s. n. (lectotype, P!, P00714817; syntype, P!, P00714818).

Two sheet specimens, without collection number, correspond with the original material. Dunn (1915) listed Soulié 627 as the type material. We examined the sheet P00714819 of Soulié 627, which was annotated as “THIBET ORIENTAL. Ta-tsiens-lou (Principauté de Kiala). J. -A. Soulié 1893” [sic!]. Clearly, Dunn’s “type” should be not the original material. Herein, we choose sheet P00714817 as the lectotype of *Salvia tricuspis*, and the other sheet P00714818 as a syntype.

8. *Saussurea caudata* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 147. 1891. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié 74 (lectotype, P!, P00289137).

In the protologue, Franchet did not specify a collection number of this name. Herein, four sheets at P are labelled as J. A. Soulié 74, but only sheet P00289137 corresponds with the protologue of *Saussurea caudata*. The other three sheets (P00289136, P00602817, P00602818) were labeled as “THIBET ORIENTAL. Ta-tsiens-lou (Principauté de Kiala). J. -A. Soulié. 1893” [sic!], and therefore should be not the original material for the name. The sheet P00289137 is here selected as the lectotype of *S. caudata*, as the only element available.

9. *Saussurea scabrada* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 146. 1891. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié s. n. (lectotype, P!, P00602902).

Sheet P00602902 is the only original material of *Saussurea scabrada*, and it is selected as the lectotype.

10. *Saussurea souliei* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 147. 1891. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsiens-lou), J. A. Soulié s. n. (lectotype, P!, P00602908).

Only sheet P00602908 corresponds to the original material of *Saussurea souliei*, and it is selected as the lectotype.

11. *Saussurea tatsienensis* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 146. 1891. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsien-lou), J. A. Soulié 163. A (lectotype, P!, P00245388).

In the protologue, Franchet did not specify a collection number of this name. Herein, three sheets at P are labelled as J. A. Soulié 163, but only sheet P00245388 corresponds with the protologue of *Saussurea tatsienensis*, with Franchet's script for species name. However, the other two sheets were annotated as "Plantes du SEZCHUEN oriental. R. P. SOULIE. Begu le 22 Avril 1892." without Franchet's script, and therefore should be not original material for the name. The sheet P00245388 is here selected as the lectotype of *S. tatsienensis*, as the only element available. Noteworthy, on the identification label, E. v. Raab-Straube was treated this sheet as the holotype in 2012, however, Franchet did not designate the type in the protologue. In addition, to distinguish sheet P00245388 from the other two sheets, someone has annotated sheet P00245388 as 163. A, the other two sheets as 163. B.

12. *Saxifraga longistyla* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 144. 1891 = *S. hypericoides* Franch. in Journ. de Bot. **10**: 261. 1896. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsien-lou), J. A. Soulié 163 (lectotype, P!, P00136569).

The sheet P00136569 is the only original material of *Saxifraga longistyla*, and it is selected as the lectotype. In the current usage, *S. longistyla* is treated as a synonym of *S. hypericoides* (Pan *et al.*, 2001). However, the name *S. longistyla* is prior to *S. hypericoides*. To maintain the current usage, a new proposal to conserve the name *S. hypericoides* is needed.

13. *Senecio plantaginifolius* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 145. 1891 = *Ligularia virgaurea* (Maxim.) Mattf. ex Rehder & Kobuski in J. Arnold Arbor. **14**: 40. 1933. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsien-lou), J. A. Soulié s. n. (lectotype, P!, P02676721).

Only sheet P02676721 corresponds to the original material of *Senecio plantaginifolius*, and it is selected as the lectotype. In the current usage, *S. plantaginifolius* is treated as a synonym of *Ligularia virgaurea* (Liu and Illarionova, 2011).

14. *Senecio setchuenensis* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 145. 1891 = *Synotis setchuenensis* (Franch.) C. Jeffrey & Y. L. Chen in Kew Bull. **39** (2): 336. 1984. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsien-lou), J. A. Soulié 198 (lectotype, P!, P00705011; isolecotype, P!, P00705012).

The gathering J. A. Soulié 198 contains two sheets, both of which are the original material of *Senecio setchuenensis*. Both sheets are conserved well and annotated by Franchet. During the taxonomic revision of tribe Senecioneae, Jeffrey and Chen (1984) specified Soulié 198 conserved at P as the holotype, which should be corrected as the lectotype. Due to Soulié 198 including two specimens, we further designate the sheet P00705011 as the lectotype of *S. setchuenensis* in accordance with Art. 9. 15. Currently, *Senecio setchuenensis* is transferred to *Synotis* (Chen *et al.*, 2011a).

15. *Senecio souliei* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 145. 1891 = *Parasenecio souliei* (Franch.) Y. L. Chen, Fl. Reipubl. Popularis Sin. **77** (1): 63. 1999. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-tsien-lou), J. A. Soulié s. n. (lectotype, P!, P00602908).

Sheet P00602908 is the only original material of *Senecio souliei*. During the taxonomic revision of Chinese *Cacalia*, Koyama (1979) listed the type information as "Szechwan: Tongolo (J. A. Soulié s. n.

P—Lectotype, 157, 271 P, 2671 GH, 2671-bis K” [sic!]. Actually, the original material P00602908 is annotated as “Plantes de TA-TSIEN-LOU (SETCHUEN)”, therefore, we cannot confirm that Koyama’s “lectotype” is the original material. To avoid confusion, we clearly designate the sheet P00602908 as the lectotype of *S. souliei*. Currently, *S. souliei* is transferred to *Parasenecio* (Chen *et al.*, 2011b).

16. *Tanacetum myrianthum* Franch. in Bull. Soc. Philom. Paris, ser. 8, **3**: 144. 1891 ≡ *Ajania myriantha* (Franch.) Y. Ling ex C. Shih in C. Shih & G. X. Fu, Acta Phytotax. Sin. **17** (2): 114. 1979. Lectotype (designated here): CHINA. Sichuan: Kangding (Ta-t sien-lou), J. A. Soulié 148 (lectotype, P!, P00706083; isolecotype, P!, P00706082).

In the protologue, Franchet did not specify a collection number of *T. myrianthum*. Herein, we find that gathering J. A. Soulié 148 with two sheets (P00706082 and P00706083) corresponds with the protologue of *T. myrianthum*. Both sheets are conserved well and annotated by Franchet, therefore, the sheet P00706083 is selected as the lectotype of *T. myrianthum*. Currently, *T. myrianthum* is transferred to *Ajania* (Shi *et al.*, 2011).

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