

Catalogue of the Type Specimens of *Oxytropis* DC. (Leguminosae)(1)

Xiang-yun Zhu
Yu-fen Du
Hiroyoshi Ohashi



China Science & Technology Press

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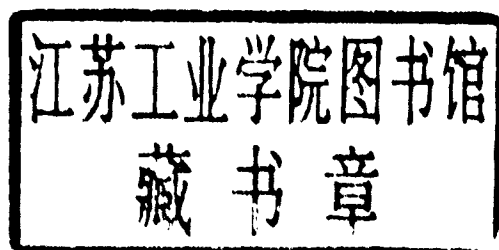
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PREFACE

Oxytropis, including more than 960 taxa recorded in the Index Kewensis, is a big genus belonging to the subfamily Papilionoideae of Leguminosae. About 300 species of this genus were recognized by Polhill [R. M. Polhill, 1981. *Oxytropis* DC. in Polhill & Raven (eds.), *Advances in Legume Systematics Part 1*. pp. 362]. The purpose of this paper is to compile a series of catalogues of the type specimens of *Oxytropis* which would be published in three volumes separately. This catalogue (1), the first volume, records 135 photos (including 133 taxa) of type specimens of *Oxytropis* (Leguminosae) preserved in PE, LE, TUS, WUK, HIMC and HNWP. Of them, 115 photos belong to holotypes, eight to isotypes, seven to lectotypes, five to isolectotypes and three to paratypes. This catalogue should be used with its sister monograph "Systematics of Chinese *Oxytropis* DC. (Leguminosae)" (X. Y. Zhu & H. Ohashi, 2000).

For the usage of this catalogue:

Each entry of the type specimens gives the following information:

Scientific name

Original author(s)

Synonym in *italics*

Original publication and date of the taxon

Nature of specimens: Holotype, isotype, lectotype, isolectotype and paratype

Type locality, collector, collection number if present, date of collection and data additional to the original publication from the label of the type specimen

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Scholars Returned from Abroad (No. 019035F), the China Postdoctoral Science Foundation and The Project of International Cooperation of National Nature Science Foundation of China (No. 39910121792). The authors are grateful to the curators and staff of the Herbaria PE, LE, TUS, WUK, HIMC and HNWP for their assistance throughout this work, especially to J. Wen and X. J. Yang for preparing the photographs for this publication.

Xiang-yun Zhu

August 2000

1. *Oxytropis arenaria* Jurtzev (Plate 1)
 Nov. Syst. Pl. Vasc. Acad. Sci. USSR. 210~211, 1964.
 In parte occidentali Chinae boreali-orientalis, proper stationem Charchonte in arenis, 7 VI 1902, D. Litwinov (Holotype: LE)
2. *Oxytropis assiensis* Vassilcz. (Plate 2)
 Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 246, 1960.
 Bien-Aksu distr., in valle flum. Dzhunke, 14 VIII 1928, M. Smironov 948 (Holotype: LE)
 In the original description its collection date is 14 VIII 1948 which is wrong, but the correct one is 14 VIII 1928.
3. *Oxytropis avis* Saposhn. (Plate 3)
 Not. Syst. Herb. Hort. Bot. Petrop. 4, 17~18: 131, 1923 = *Oxytropis merkensis* Bunge
 Tarbagatai, Ajagus et Tasbeitkunduk, 27 VI 1841, S. Coll. s.n. (Holotype: LE)
4. *Oxytropis avisoides* P. C. Li (Plate 4)
 Acta Phytotax. Sin. 18(3): 371~372, 1980.
 Baxoi, Xizang, alt. 4650 m, 4 July, 1976, Vegetation Group of Qinghai-Xizang Expedition 8871 (Holotype: PE)
 In the original paper by P. C. Li & C. C. Ni (1980) the collection date 14 July 1976 for the holotype specimen is wrong, but the correct one is 4 July 1976.
5. *Oxytropis barkolensis* X. Y. Zhu, H. Ohashi & Y. B. Deng (Plate 5)
 J. Jpn. Bot. 74: 65~66, 1999.
 Hi Gou, Barkol, Hami Xian, 2 July, 1987, Xinjiang University Collection Team 87-01914 (Holotype: PE)
6. *Oxytropis barkultagi* Grubov & Vassilcz. (Plate 6)
 Nov. Sist. Vyssh. Rast. 24: 138~139, 1987.
 Thian-Schan, [trajectus Koschety-Dabanl utroque latero, parce, in australi in fauce ad latero, 24 V (5 VI) 1879, N. M. Przewalski 131] (Holotype: LE)
7. *Oxytropis baxoiensis* P. C. Li (Plate 7)
 Acta Phytotax. Sin. 18(3): 371, 1980.
 Baxoi Xian, Xizang, alt. 3900 m, 11 July, 1976, Vegetation Group of Qinghai-Xizang Comprehensive Expedition 9069 (Holotype: PE)
8. *Oxytropis beketowii* Krassn. (Plate 8)
 Script. Hort. Univ. Petrop. 2, 1: 15, 1887~1888.
 Statio: prope flumen Sarry-Jassy, 1886, Krassnow s.n. (Holotype: LE)
9. *Oxytropis bicolor* Bunge (Plate 9)
 Mem. Acad. Sci. Petersb. 2: 91, 1833.
 In China boreali prope Pekinum in collibus apricis inter Pali-dshuan et Zui-wei-schan (ipse) et occidentalis provincia Kansu in desertis, N. M. Przewalski s.n. (Isotype: LE)
10. *Oxytropis biflora* P. C. Li (Plate 10)
 Acta Phytotax. Sin. 18(3): 369, 1980.
 On meadow, Shuanghu, Xizang, alt. 5000 m, 24 July, 1976, Vegetation Group of Qinghai-Xizang Comprehensive Expedition 11993 (Holotype: PE)
 In the original paper by P. C. Li & C. C. Ni (1980), the collection number of the holotype

specimen was wrongly written as 1193. Actually its correct collection number is 11993 from the holotype specimen.

11. *Oxytropis bogdoschanica* Jurtzev (Plate 11)
Nov. Syst. Pl. Vasc. Acad. Sci. USSR. 204~205, 1964.
Soongoria, montes Bogdo-Ola et opp. Urumschi, Lager am sudrande des Bogdo-Ola, 26~29 VIII 1908, G. Merzbacher 1347 (Holotype: LE)
12. *Oxytropis brevipedunculata* P. C. Li (Plate 12)
Acta Phytotax. Sin. 18(3): 370~371, 1980.
On meadow, Shuanghu, Xizang, alt. 5200~5400 m, 6 July, 1976, Vegetation Group of Qinghai-Xizang Comprehensive Expedition 11869 (Holotype & Isotype: PE)
13. *Oxytropis bungei* Kom. (Plate 13)
Fedde, Repert. 13: 229, 1914.
In Mongolia spetentrionali in valle fluvii Uzundsjur in saxis, 28 VI 1897, E. N. Klementz s.n. (Holotype: LE)
14. *Oxytropis burchan-buddae* Grubov & Vassilcz. (Plate 14)
Nov. Sist. Vyssh. Rast. 24: 139~140, 1987.
Jugum Burchan-Budda, declivitas borealis, in solo lapidoargilloso, faux Khatu, alt. 11000~13000 ft, 11 VII 1901, V. F. Ladygin 219 (Holotype: LE)
15. *Oxytropis chantengriensis* Vassilcz. (Plate 15)
Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 231, 1960.
Ad ripam dextram flum. Inylczek, prope fl. Aczek-Tasch, 27 VIII 1939, V. Jakovleva 22 (Holotype: LE)
16. *Oxytropis chinglinensis* C. W. Chang (Plate 16)
Fl. Tsinling. 1(3): 446~447, 1981, in add.
Paomaliang, Baxiantai, Taibai Shan, Mei Xian, alt. 3650 m, 30 VII 1963, Y. M. Liang 362 (Holotype: WUK)
17. *Oxytropis chionobia* Bunge (Plate 17)
Mem. Acad. Petersb. Ser. VII. 22(1): 148, 1874.
Alatau, Herb Levebour (Lectotype designed by the authors here: LE)
18. *Oxytropis ciliata* Turcz. (Plate 18)
Bull. Soc. Nat. Mosc. 5: 186, 1832.
In locis subarenosis mongoliae chinensis australis prope oppidum Tzagan-Valgassu, 1831, M. Majo s.n. (Holotype: LE)
19. *Oxytropis daqingshanica* Y. Z. Zhao & Z. Y. Zhu (Plate 19)
Acta Sci. Nat. Univ. NeiMong. 27(1): 83~84, 1996 = *Oxytropis ochrantha* Turcz.
Daqing Shan, Innermongholia, July, 1984, Z. Y. Zhu 84-074 (Holotype: HIMC)
20. *Oxytropis densiflora* P. C. Li (Plate 20)
Acta Phytotax. Sin. 18(3): 372, 1980.
On mountainous slope, Gonjo, Xizang, alt. 3950 m, 22 August, 1976, Vegetation Group of Qinghai-Xizang Expedition 9722 (Holotype: PE)
Oxytropis densifolia P. C. Li in sched was used in C. Y. Wu (ed.), Fl. Xizang. 2: 865~866, 1985 and in H. B. Cui (ed.), Fl. Reip. Pop. Sin. 42(2): 102, 1998. However, *O.*

- densiflora* was validly published. The correct name for this species is *O. densiflora* P. C. Li.
21. *Oxytropis diantha* Bunge ex Maxim. (Plate 21)
Bull. Acad. Petersb. 26: 470, 1880.
Mongolia boreali, jugo Changai, in littore australi lacus Ssangan-dalai, 12 IX 1877, G. N. Potanin s. n. (Holotype: LE)
 22. *Oxytropis dubia* Turcz. (Plate 22)
Bull. Soc. Nat. Mosc. 15, 1: 752, 1842.
Ad acidulam Pogromezenssem invenit amic, 1829, Basnin & Jurcz. s. n. (Holotype: LE)
 23. *Oxytropis dumbedanica* Grubov & Vassilcz. (Plate 23)
Nov. Sist. Vyssh. Rast. 24: 134~135, 1987.
Iter turkestanicum. Thian-Schan, Kumbel, 9000~10000 ft., 31 V 1879, A. Regel s. n. (Holotype: LE)
 - 24-1. *Oxytropis elegans* Kom. (Plate 24)
Fedde, Repert. 13: 225, 1914.
Mongolia bor., 8 VI 1893, Klemenz 946 (Lectotype designed by the authors here: LE)
 - 24-2. *Oxytropis elegans* Kom. (Plate 25)
Fedde, Repert. 13: 225, 1914.
Mongolia bor., 8 VI 1893, Klemenz 946 (Isolectotype designed by the authors here: PE)
 25. *Oxytropis eriocarpa* Bunge (Plate 26)
Mem. Acad. Petersb. Ser. VII. 22(1): 122, 1874.
In apricis lapidosis altioribus ad Tschujam jugi altaici orientioris, 29 July 1857(?), Politow. s. n. (Holotype: LE)
 26. *Oxytropis falcata* Bunge (Plate 27)
Mem. Acad. Petersb. Ser. VII. 22(1): 156, 1874.
Kansu, W China, VI 1873, N. M. Przewalski 121 (Holotype: LE)
 27. *Oxytropis frigida* Kar. & Kir. (Plate 28)
Bull. Soc. Nat. Mosc. 14: 402, 1841 = *Oxytropis alpina* Bunge
In alpinis Tarbagatai ad torrentem Tscheharak-Assu, locis lapidosis, 1840, Karelin & Kiriloff s. n. (Holotype: LE)
 28. *Oxytropis gêrzêensis* P. C. Li (Plate 29)
Fl. Xizang. 2: 859~260, 1985.
Gêrzê, Xizang, alt. 5200 m, 14 September, 1976, Vegetation Group of Qinghai-Xizang Comprehensive Expedition 12567 (Holotype: PE)
 29. *Oxytropis glareosa* Vassilcz. (Plate 30)
Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 232, 1960 = *Oxytropis glabra* (Lam.) DC.
Songoria, Alatau, 6 V 1843, Alex Schrenk s. n. (Holotype: LE)
 30. *Oxytropis grubovii* Ulzj. (Plate 31)
Bot. Zhurn. 56(8): 1149, 1971 = *Chesneya micrantha* Cheng f. ex H. C. Fu
Respublica Popularis Mongolia. Desertum Bordzon-Gobi, ad extremitatem austro-orientalem jugi Churchu-ula, inter Ulan-tsab et Gurban-Modny bulak, in sedimentis tertiariis rubris et

- fundum alvei sicci, 29 VII 1970, V. I. Grubov & al. s.n. (Holotype: LE)
31. *Oxytropis grum-grshimailoi* Palib. (Plate 32)
Bull. Herb. Boiss. 2(8): 161, 1908.
Altai mongolien, versant meridional a l'est du fl. Kostuk, 8 VI 1903, Grum-Grshimailo s.n. (Holotype: LE)
 32. *Oxytropis guinanensis* Y. H. Wu (Plate 33)
Acta Phytotax. Sin. 35(4): 348~352, 1997.
Ad deserticolas, Mugetan, Guinan, Qinghai, China, alt. 3200 m, 23 July, 1967, B. T. Li & H. Z. Zhang 039 (Holotype: HNWP)
 33. *Oxytropis heterophylla* Bunge ex Maxim. (Plate 34)
Bull. Acad. Petersb. 26: 470, 1880.
In prato planitie aliae, 2300~2750 m, Malyi Yuldus, 3[15] VI 1877, N. M. Przewalski 57 (Holotype: LE)
 34. *Oxytropis heterotricha* Turcz. (Plate 35)
Bull. Soc. Nat. Mosc. 15, 4: 752, 1842.
In alpe Kawokta, 1834, P. Turczaninow s.n. (Holotype: LE)
 35. *Oxytropis hirsutiuscula* Freyn (Plate 36)
Bull. Herb. Boiss. 2(5): 1021, 1905.
In humidis salsis prope lacum Jashil-Kul, alt. 3800 m, 23 VII 1898, M. D. Paulsen 881 (Isotype: LE)
 36. *Oxytropis hirta* Bunge var. *wutuensis* C. W. Chang (Plate 37:1)
Fl. Tsinling. 1(3): 445, 65, 1981 = *Oxytropis hirta* Bunge
Chengkwan Commune, Wutu Xian, Gansu, alt. 1100 m, 29 September, 1973, C. S. Yang 3361 (Holotype: WUK)
 37. *Oxytropis holanshanensis* H. C. Fu (Plate 37:2~3)
Acta Phytotax. Sin. 20(3): 313, 1982.
Helan Shan, 26 VII 1962, Y. C. Ye 321 (Holotype: HIMC)
 38. *Oxytropis humifusa* Kar. & Kir. (Plate 38)
Bull. Soc. Nat. Mosc. 15: 535, 1842.
In lapidosis summarum alpium Alatau ad fontes fluvii Sanchan, 1841, Karein & Kirilow s.n. (Lectotype: LE)
 39. *Oxytropis humilis* C. W. Chang (Plate 39)
Fl. Tsinling. 1(3): 68~69, 447, 1981.
Shuiwozi, Xitaibai Shan, Taibai Xian, Shaanxi, alt. 3280 m, 10 IX 1963, Y. M. Liang 642 (Holotype: WUK)
 40. *Oxytropis imbricata* Kom. (Plate 40)
Fedde, Repert. 13: 232, 1914; Peter-Stib. Acta Hort. Gotoburg. 1937~8, 12: 76, 1938 (descr. ampl.)
China borealis: Prov. Kansu, in valle, T'ao-cho ad monasterium Dshoni, 30 V 1885, G. N. Potanin (Isolectotype: LE)
 41. *Oxytropis inschanica* H. C. Fu & Cheng f. (Plate 41)
Fl. Intramongolica 3: 289~290, 1977; Publ. 1978.

- Bikeqi, Daqingshan Mt., Innermonggolia, alt. 2100 m, 10 July, 1963, X. Q. Fu 501 (Holotype: HIMC)
42. *Oxytropis kansuensis* Bunge (Plate 42)
 Mem. Acad. Petersb. Ser. VII. 22(1): 38, 1874.
 In Chinae occidentalis provincia Kansu, in alpinis jugis secus fluvium Tetung sitis, 10~24 VII 1872, N. M. Przewalski 275 (Holotype: LE)
43. *Oxytropis kodarensis* Jurtsev & Malyshev (Plate 43)
 Nov. Syst. Pl. Vasc. (Leningrad) 162, 1969.
 Ad vias a Nerczinsk in Bjakino, in steppis, VI 1892 (sub *Oxytropis hirta* var. *borealis* Palib.), P. Stukov s.n. (Holotype: LE)
44. *Oxytropis ladyginii* Krylov (Plate 44)
 Acta Hort. Petrop. 21: 5, 1903.
 In montibus Altaicis orientalibus ad fl. Qigur, tran trajectum Ulan-Daban, locis saxosis, 29 VII 1899, S. Coll. s.n. (Holotype: LE)
45. *Oxytropis langshanica* H. C. Fu (Plate 45)
 Fl. Intramong. Ser. 2, 3: 672, 313~314, 1989.
 Boyintu, Wulatehouqi, Bayannolmeng, Innermonggolia, 7 June, 1982, Ge Ming s.n. (Holotype: HIMC)
46. *Oxytropis larionovii* Grubov & Vassilcz. (Plate 46)
 Nov. Sist. Vyssh. Rast. 24: 136, 1987.
 Iter turkestanium, Thian-Schan, Taldy media, 26 V 1879, alt. 7000 ft., A. Regel s.n. (Holotype: LE)
47. *Oxytropis lasiopoda* Bunge (Plate 47)
 Mem. Acad. Petersb. Ser. VII. 22(1): 151, 1874.
 Mongolia chin., Bussun-tschelo, 15/27 VI 1850, Tatarinow s.n. (Holotype: LE)
48. *Oxytropis latialata* P. C. Li (Plate 48)
 Acta Phytotax. Sin. 18(3): 370, 1980.
 On mountainous slope, Baingoin, Xizang, alt. 5100 m, 22 June, 1976, K. Y. Lang 9485 (Holotype: PE)
 In the original paper by P. C. Li & C. C. Ni (1980) the collection number of holotype specimen 9484 is wrong, but correct one is 9485.
49. *Oxytropis latibracteata* Jurtzev (Plate 49)
 Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 19: 269~270, 1959.
 China occidentalis, Regio Tangut (prov. Kansu), Ulachin-Chatyma(?), 9~10000 ft., 11/23 VII 1880, N. M. Przewalski s.n. (Holotype: LE)
50. *Oxytropis latibracteata* Jurtzev var. *longibracteata* Y. H. Wu (Plate 50)
 Acta Phytotax. Sin. 35(4): 352, 1997.
 On the side of shrubs, Beida Shan, Xinzhe, Gonghe Xian, Qinghai, China, alt. 3700 m, 8 August, 1975, P. C. Guo 11894 (Holotype: HNWP)
51. *Oxytropis leptophysa* Bunge (Plate 51)
 Mem. Acad. Petersb. Ser. VII. 22(1): 61, 1874.
 In faucibus Ssangi-Dshuman, 25 V 1869, A. Fedtschenko s.n. (Holotype: LE)

52. *Oxytropis linearibracteata* P. C. Li (Plate 52)
Acta Phytotax. Sin. 18(3): 371, 1980.
On dry place, Sog Xian, Xizang, alt. 4200 m, 4 June, 1961, J. T. Wang 3363 (Holotype: PE)
53. *Oxytropis longialata* P. C. Li (Plate 53)
Acta Phytotax. Sin. 18(3): 371, 1980.
On sand gravel land in valley, Lhari, Xizang, alt. 4050 m, 31 May, 1976, Qinghai-Xizang Comprehensive Expedition 10426 (Holotype: PE)
54. *Oxytropis macrobotrys* Bunge (Plate 54)
Mem. Acad. Petersb. Ser. VII. 22(1): 53, 1874.
In jugi Altaici australioris locis editis circa lacum Marka ad limites laricetorum ab Utsch-terekty usque ad Tschangly-bulak et Taskainat-bulak, 23~31 May 1863, S. Coll. n°145 (Holotype: LE)
55. *Oxytropis macrocarpa* Kar. & Kir. (Plate 55)
Bull. Soc. Nat. Mosc. 15, 2: 326, 1842.
In montosis apricis Alatau inter fl. Aksu et Sarchan, 1841(?), S. Coll. 235 (Holotype: LE)
56. *Oxytropis macrodonta* Gontsch. (Plate 56)
Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 8, 11: 188, 1940.
Andizhan, inter Tcharvak et Arslan-bob, 5 VI 1899, D. Litvinov s.n. (Holotype: LE)
57. *Oxytropis maduoensis* Y. H. Wu (Plate 57)
Acta Bot. Yunnan. 19(1): 33~34, 1997.
On hilly slope, Maduo Xian, Qinghai, China, alt. 4300 m, 25 July, 1976, Y. H. Wu 021 (Holotype: HNWP)
58. *Oxytropis maqinensis* Y. H. Wu (Plate 58)
Acta Bot. Yunnan. 19(1): 34~36, 1997.
On dry slope, Xihalong, Maqin Xian, Qinghai, China, alt. 3550 m, 4 August, 1990, Y. H. Wu & al. 5722 (Holotype: HNWP)
59. *Oxytropis masarensis* Vassilcz. (Plate 59)
Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 237, 1960.
In regione Oschensi (Kirghisia) Prope fontem Mazar, 15 V 1913, O. E. Knorring 136 (Holotype: LE)
60. *Oxytropis meinshausenii* Schrenk (Plate 60)
Bull. Soc. Acad. Petersb. 10: 254, 1842.
In jugi Alatau monte Ssaratau prope Ispuli, 14 VII 1841, Meishausen 721 (Holotype: LE)
61. *Oxytropis melaleuca* Bunge (Plate 61)
Mem. Acad. Petersb. Ser. VII. 22(1): 89, 1874.
In alpinis jugi Sartau, a limite superiore arborum usque ad moraenas declivitatis meridionalis, 3 July, 1803, B. B. Semenov 156 (Holotype: LE)
- 62-1. *Oxytropis melanocalyx* Bunge (Plate 62)
Mem. Acad. Petersb. Ser. VII. 22(1): 8, 1874.
In regione silvestri jugi ad meridiem fl. Tetung siti in provincia Kansu China occidentalis, 16~21 VII 1872, N. M. Przewalski s.n. (Isotype: PE)

- 62-2. *Oxytropis melanocalyx* Bunge (Plate 63)
 Mem. Acad. Petersb. Ser. VII. 22(1): 8, 1874.
 In regione silvestri jugi ad meridiem fl. Tetung siti in provincia Kansu China occidentalis,
 16~ 21 VII 1872, N. M. Przewalski s. n. (Isotype: LE)
63. *Oxytropis melanocalyx* Bunge var. *brevidentata* C. W. Chang (Plate 64)
 Fl. Tsinling. 1(3): 445~446, 66, 1981 = *Oxytropis sitaipaiensis* T. P. Wang ex C. W. Chang var. *brevidentata* (C. W. Chang) X. Y. Zhu & H. Ohashi
 Dongzigou, Xinkou, Yang Xian, Shaanxi, alt. 2000 m, 13 June, 1952, B. Z. Guo 1309
 (Holotype: WUK)
64. *Oxytropis merkensis* Bunge (Plate 65)
 Bull. Soc. Nat. Mosc. 39(3): 11~12, 1866.
 Ad torrentem Merke in jugo, Tianschan, B. B. Semenov s. n. (Holotype: LE)
65. *Oxytropis micrantha* Bunge ex Maxim. (Plate 66)
 Bull. Acad. Sci. Petersb. 26: 470, 1880.
 In arenosis, inter Dsabchyn et Gutu, Changai, Mongolia borealis, 18 July 1877, G. N. Potanin s. n. (Lectotype designed by here: PE)
66. *Oxytropis minutiflora* Jurtzev (Plate 67)
 Nov. Syst. Pl. Vasc. Acad. Sci. USSR. 207, 1964.
 Mongolia borealis, in steppa ad ripam dextram fl. Charucha in vicinitate montium jugi Berche, 1 IX 1926, Y. Prokhanov 660 (Holotype: LE)
67. *Oxytropis moellendorffii* Bunge ex Maxim. (Plate 68)
 Bull. Acad. Petersb. 26: 469, 1889.
 China borealis, in Siao-wu-tai-shan, Prov, Petschili, supra terminum silvarum, alt. 7500~9000 ft., Moellendorff s. n. (Holotype: LE)
68. *Oxytropis mongolica* Kom. (Plate 69)
 Fedde, Repert. 13: 226, 1914.
 In collibus arenosis, ad ripam siniotran fl. Bogden Kol, non procul(?), a loco Gudschirtei, 16 VII 1896, Klementz. s. n. (Isolectotype: LE)
69. *Oxytropis monophylla* Grubov (Plate 70)
 Bot. Zhurn. 63(3): 364, 1978.
 Locus Bain-Dzag in saxis arenaceis rubris aqua erosis, 21 October, 1947, V. I. Grubov & A. Kalinina s. n. (Holotype: LE)
70. *Oxytropis multiramosa* P. C. Li (Plate 71)
 Acta Phytotax. Sin. 18(3): 372, 1980 = *Oxytropis densiflora* P. C. Li var. *multiramosa* (P. C. Li) X. Y. Zhu & H. Ohashi
 Changdu, Xizang, Institute of Botany, Yunnan Prov. 12580 (Holotype: PE)
Oxytropis multiramea P. C. Li in sched (June, 1979) was used in C. Y. Wu (ed.), Fl. Xizang. 2: 865~866, 1985. When being published, *O. multiramosa* was used, and the correct name for this species is *O. multiramosa* P. C. Li.
71. *Oxytropis neimonggolica* C. W. Chang & Y. Z. Zhao (Plate 72)
 Acta Phytotax. Sin. 19(4): 523, 1981.
 Xiangchizigou, Helan Shan, alt. 2100 m, 16 June, 1980, Y. Z. Zhao & S. Q. Zhou 1114

(Holotype: HIMC)

In the original paper (C. W. Chang & Y. Z. Zhao 1981) the collection date of the type specimen is 6 June of 1980 which is wrong, and the correct one is 16 June of 1980.

72. *Oxytropis niedzweckiana* Popov (Plate 73)
Fl. USSR. 13: 548, 1948.
Angustiae Ssiugaty, in decliviis humidis septentrionem versus spectantibus, 22 V 1937, Goloskokov s. n. (Holotype: LE)
73. *Oxytropis nutans* Bunge (Plate 74)
Bull. Soc. Nat. Mosc. 39, 3: 17~18, 1866.
In Balyktinschen Thale, 9 Mei, B. B. Semenov s. n. (Holotype: LE)
74. *Oxytropis ochrantha* Turcz. (Plate 75)
Bull. Soc. Nat. Mosc. 5: 188~189, 1832.
In locis subarenosis Mongoliae chinensis australis prope Tzagan-Bal-gassu, Majo, 1831, Kuznetzov s. n. (Holotype: LE)
75. *Oxytropis ochrantha* Turcz. var. *albopilosa* P. C. Li (Plate 76)
Fl. Xizang. 2: 870, 1985 = *Oxytropis ochrantha* Turcz.
On meadows, Baxoi Xian, Xizang, alt. 4100 m, 4 July, 1976, Vegetation Group of Qinghai-Xizang Comprehensive Expedition 8925 (Holotype: PE)
76. *Oxytropis ochrocephala* Bunge (Plate 77)
Mem. Acad. Petersb. Ser. VII. 22(1): 57, 1874.
In chinae occidentalis provia Kansu orientaliore, VI 1872, N. M. Przewalski 109 (Holotype: LE)
77. *Oxytropis ochrocephala* Bunge var. *longibracteata* P. C. Li (Plate 78)
Fl. Xizang. 2: 859, 1985 = *Oxytropis ochrolongibracteata* X. Y. Zhu & H. Ohashi
Changdu, Xizang, alt. 3200 m, 9 August, 1976, Qinghai-Xizang Comprehensive Expedition 12719 (Holotype: PE)
78. *Oxytropis ornata* Vassilcz. (Plate 79)
Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 241, 1960.
In montibus Karatau (Kazakhstania) prope loc. Balakly, in declivibus stepposis angustiarum Ak-Sai, 7 VII 1913, S. Lipschitz. s. n. (Holotype: LE)
79. *Oxytropis pagobia* Bunge (Plate 80)
Mem. Acad. Petersb. Ser. VII. 22(1): 27, 1874.
In regno Kokand ad glacies prope Ktschi-Alai, 26 VII 1871, Fedtschenko s. n. (Holotype: LE)
80. *Oxytropis parasericeopetala* P. C. Li (Plate 81)
Acta Phytotax. Sin. 18(3): 369~370, 1980.
On grassland, Lhasa, Xizang, alt. 5000 m, 18 August, 1965, Y. T. Zhang & K. Y. Lang 1877 (Holotype: PE)
Oxytropis parasericeopetala P. C. Li in sched. (1979) was used in C. Y. Wu (ed.), Fl. Xizang 2: 854~855, 1985. P. C. Li published it using the name *O. parasericeopetala*. Therefore, the correct name for this species is *O. parasericeopetala*.
81. *Oxytropis paratragacanthoides* Vassilcz. (Plate 82)

- Nov. Syst. Pl. Vasc. Sci. USSR. 6: 153, 1970 = *Oxytropis tragacanthoides* Fisch. ex DC.
 Respublica Popularis Mongolica, ad ripam sinistram fl. Bogden-gol prope praedium Hutjirtey,
 in collibus arenosis, 16 VII 1896, E. Klementz s.n. (Holotype: LE)
82. *Oxytropis pauciflora* Bunge (Plate 83)
 Rel. Lehmann. 77, 1851.
 In montibus altaicis orienterioribus ad ripam dextram fluvii Tschujae in alpinis, 1837, A. A.
 Bunge (Holotype: LE)
83. *Oxytropis pavlovii* B. Fedtsch & Basil. (Plate 84)
 Bull. Soc. Nat. Mosc. 38(1~2): 96, 1929.
 30 VIII 1924, S. Coll. n° 732 (Isotype: LE)
84. *Oxytropis pellita* Bunge (Plate 85)
 Mem. Acad. Sci. Ptersb. Ser. VII. 22(1): 147, 1874.
 In alpium Alatau faucibus Kokatau dictis, Schrenk 410 (Holotype: LE)
85. *Oxytropis penduliflora* Gontsch. (Plate 86)
 Fl. USSR. 13: 543, 1948.
Oxytropis penduhflora Gontsch., Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 8: 186,
 1940.
 Pars media cursus fl. Koisu, VII 1908, Fedtschenko 388 (Holotype: LE)
 In the original paper the collection number is 988 which is wrong, and the correct one 388 is
 from the type specimen. *O. penduhflora* Gontsch (1940) has a wrong spelling on specific
 epithet, and its correct name should be *O. penduliflora* Gontsch (1948).
86. *Oxytropis piceetora* Vassilcz. (Plate 87)
 Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 237, 1960.
 Tian-Schan centralis, ad ripam dextram flum. Kuilu, in piceetis, 3 VIII 1939, V. Jakovleva 64
 (Holotype: LE).
87. *Oxytropis podoloba* Kar. & Kir. (Plate 88)
 Bull. Soc. Nat. Mosc. 15: 327, 1842.
 In glareosis ad fl. Lepsa regionis montanae Alatau, C. F. Ledebour 1367 (Holotype: LE)
88. *Oxytropis popovii* Peschkova (Plate 89)
 Nov. Syst. Pl. Vasc. Acad. Sci. USSR. 6: 290, 1970 = *Oxytropis falcata* Bunge
 Tibetia, in valle fl. Alyk-Norin-Gol, alt. 1220 ft., in locis lapidosis, 8 VI 1901, V. Ladygin
 s.n. (Holotype: LE)
89. *Oxytropis potaninii* Bunge ex Palib. (Plate 90)
 Bull. Herb. Boiss. 2(8): 160, 1908.
 Altai mongolien, versant meridional, pres du fleuve Tiekty, 6 VII 1903, Grum-Grshimailo
 s.n. (Holotype: LE)
90. *Oxytropis przewalskii* Kom. (Plate 91)
 Fedde, Repert. 13: 227, 1914.
 Mongolia occidentalis, in latere meridionali montium Thianschan, 25 V /6 VII 1879, N. M.
 Przewalski s.n. (Holotype: LE)
91. *Oxytropis pseudocoerulea* P. C. Li (Plate 92)
 Acta Bot. Yunnan. 11(3): 300~301, 1989.

Yalongjiang River, Garze, Sichuan, alt. 3400 m, 30 May, 1973, Qinghai-Xizang Expedition Team 73-02 (Paratype: PE)

92. *Oxytropis pseudolanuginosa* Jurtzev (Plate 93)
Nov. Syst. Pl. Vasc. (Leningrad). 206, 1964.
Mongolia boreali-occidentalis, ad ripam sinistram fl. Tess prope monaterium Gandyn-Kure, 12 VIII 1924, M. Neiburg. s.n. (Holotype: LE)
93. *Oxytropis pseudomyriophylla* Cheng f. ex X. Y. Zhu, H. Ohashi & Y. B. Deng (Plate 94)
J. Jpn. Bot. 74: 127~129, 1999.
Liu pan Shan, Ningxia, China, alt. 1400 m, 2 July, 1936, J. M. Liu 5699 (Holotype: PE)
94. *Oxytropis pulvinata* Saposhn. (Plate 95)
Bot. Mat. Gerb. Bot. Sada. IV, 17~18:129, 1923 = *Oxytropis tianschanica* Bunge
Tian-Schan, Arpa ad torrentem Suek. (from original paper), [No 1031] (Lectotype: LE)
95. *Oxytropis qinghaiensis* Y. H. Wu (Plate 96)
Novon 6(2): 187, 1996.
Along the Danqu near its confluence with the Huang He River, Shanggongma Xiang, Gadê Xian, Qinghai, China, 33°50' 33" N, 99°40' 33" E, alt. 4020 m, 9 August, 1993, T. N. Ho & al. 969 (Isotype: LE)
96. *Oxytropis qinghaiensis* Y. H. Wu (Received on Feb. 18, 1996) (Plate 97)
Acta Bot. Boreal.-Occident. Sin. 17(1): 109~111, 1997 = *Oxytropis qinghaiensis* Y. H. Wu (1996)
Tongde Xian, Qinghai, China, alt. 3440 m, 10 August, 1990, Y. H. Wu 6192 (Holotype: HNWP)
97. *Oxytropis qinghaiensis* Y. H. Wu (Received on Feb. 12, 1996) (Plate 98)
Acta Bot. Yunnan. 19(1): 36~37, 1997 = *Oxytropis nangqianensis* X. Y. Zhu
Ad prope sylvam alpinam, Baiza, Nangqên Xian, Qinghai Province, China, alt. 3900~4000 m, 18 June, 1985, W. Y. Wang 0008 (Paratype: HNWP)
98. *Oxytropis qitaiensis* X. Y. Zhu, H. Ohashi & Y. B. Deng (Plate 99)
J. Jpn. Bot. 74: 66, 1999.
Qitai Xian, Xinjiang, China, 28 June, 1982, Xinjiang University Collection Team s.n. (Holotype: PE)
99. *Oxytropis racemosa* Turcz. (Plate 100)
Bull. Soc. Nat. Mosc. 5: 187, 1832.
In arenosis Mongoliae Chinensis prope Chadatu, Augusto mense, 1831, S. Coll. s.n. (Holotype: LE)
100. *Oxytropis ramosissima* Kom. (Plate 101)
Fedde, Repert. 13: 227, 1914.
In terra Ordos Mongoliae ad fluv. Baga-gol in collibus arenae mobilis, 12 IX 1884, G. N. Potanin s.n. (Holotype: LE)
101. *Oxytropis reniformis* P. C. Li (Plate 102)
Acta Phytotax. Sin. 18(3): 370, 1980.
On mountainous slope of grassland, Changdu, Xizang, alt. 4300 m, June, 1974, Qinghai-

Xizang Comprehensive Expedition 74-3605 (Holotype: PE)

The correct collection number of type specimen is 74-3605, but not 3650 from original publication.

102. *Oxytropis rhizantha* Palib. (Plate 103)

Bull. Herb. Boiss. 2(8): 159, 1908.

Mongolia occidentalis, Altai, nord, entre les lacs de Dain-gal et d'Ak-Koroum, 29 VI 1903, Grum-Grshimailo s. n. (Holotype: LE)

103. *Oxytropis robusta* Popov (Plate 104)

Fl. USSR. 13: 545, 1948.

In angustis Turgenensibus (Alatau Transiliensis), 29 VI 1937, M. G. Popov s. n. (Holotype: LE)

104. *Oxytropis rosea* Bunge (Plate 105)

Mem. Acad. Petersb. Ser. VII. 22(1): 69, 1874.

In deserto Ustj-urt inter lacus Aralensem et Caspium, Krause s. n. (Holotype: LE)

105. *Oxytropis rubriargillosa* Vassilcz. (Plate 106)

Not. Syst. Herb. Inst. Bot. Acad. Sci. USSR. 20: 241, 1960.

In valle Alajensi, monte Tarawscha, in declivibus rubro-argillosis, 25 VI 1931, S. Lipschitz 198 (Holotype: LE)

106. *Oxytropis ruthenica* Vassilcz. (Plate 107)

Bot. Mat. Herb. Inst. Bot. Acad. Sci. USSR. 20: 236, 1960.

Oriens. extremus, in valle flum. Tetjuche, 9 VI 1909, N. V. Djukina. s. n. (Holotype: LE)

The above information is from original paper, but 19 VI 1922 and No. 27 are from type specimen.

107. *Oxytropis sacciformis* H. C. Fu (Plate 108)

Acta Phytotax. Sin. 20(3): 311~315, 1982.

Bailingmiao, Darhan Muminggan, Ulanqab Meng, 5 September, 1979, S. Y. Zhao 35 (Holotype: HIMC)

108. *Oxytropis saurica* Saposhn. (Plate 109)

Not. Syst. Herb. Hort. Bot. Petrop. 4(17~18): 137, 1923.

Saur in regione alpina, 13 VII 1904, S. Coll. 82 (Holotype: LE)

109-1. *Oxytropis schensiensis* Kom. (Plate 110)

Fedde, Repert. 13: 232, 1914 = *Oxytropis moellendorffii* Bunge ex Maxim.

In montibus Wutaischan provinciae Schensi Chinae borealis solo argilloso, 11 VI 1884, G. N. Potanin s. n. (Holotype: LE)

109-2. *Oxytropis schensiensis* Kom. (Plate 111)

Fedde, Repert. 13: 232, 1914 = *Oxytropis moellendorffii* Bunge ex Maxim.

In montibus Wutaischan provinciae Schensi Chinae borealis solo argilloso, 11 VI 1884, G. N. Potanin s. n. (Isotype: PE)

110. *Oxytropis selengensis* Bunge (Plate 112)

Mem. Acad. Petersb. Ser. VII. 22(1): 143, 1874.

In arenosis transbaicalensibus ad ostia fl. Selenga, prope Kiachtam, 1829, P. Turczaninow

s. n. (Lectotype: LE)

111. *Oxytropis setifera* Kom. (Plate 113)
Fedde, Repert. 13: 233, 1914.
Mongolia occidentalis, Gobi, mont, 11[23] V 1879, N. M. Przewalski 49 (Holotype: LE)
112. *Oxytropis sewerzowii* Bunge (Plate 114)
Mem. Acad. Petersb. Ser. VII. 22(1): 36, 1874.
In jugo Alatau prope fortalitium Wernoje fine Maji mensis florens 30/V, (?), S. Coll. s. n. (Holotype: LE)
113. *Oxytropis sichuanica* C. W. Chang (Plate 115)
Acta Bot. Bor.-Occid. Sin. 8(1): 11, 1988.
Shaocaping, Kunka Shan, Kasa, Dajin Xian, Sichuan, alt. 4200 m, 28 June, 1958, X. Li 77945 (Holotype: PE)
114. *Oxytropis sinkiangensis* Cheng f. ex C. W. Chang (Plate 116)
Acta Bot. Bor.-Occid. Sin. 8(1): 13, 1988.
Huangcaohu, Qitai, Xinjiang, 4 July, 1956, C. R. Chang 708 (Holotype: PE)
115. *Oxytropis sitaipaiensis* T. P. Wang ex C. W. Chang (Plate 117)
Fl. Tsinling. 1(3): 446, 67, 1981.
Laoyanggou, Baiyunxia, Xitaibai, Taibai Xian, Shaanxi, alt. 1880 m, 16 July, 1957, K. T. Fu 9577 (Holotype: WUK)
116. *Oxytropis siziwangensis* Y. Z. Zhao & Z. Y. Zhu (Plate 118)
Acta Sci. Nat. Univ. NeiMong. 26(6): 721~722, 1995.
Wangfu, Siziwangqi, Wumeng, Innermongolia, 1976, Z. Y. Zhu s. n. (Holotype: HIMC)
- 117-1. *Oxytropis stipulosa* Kom. (Plate 119)
Fedde, Repert. 13: 231, 1914 = *Oxytropis densa* Benth. ex Bunge
In jugo Keria-jugum 7200 ped., 4/16 V 1885, ripas fl. Moldscha-su in glareosis N. M. Przewalski s. n. (Lectotype: LE)
- 117-2. *Oxytropis stipulosa* Kom. (Plate 120)
Fedde, Repert. 13: 231, 1914 = *Oxytropis densa* Benth. ex Bunge
In jugo Keria-jugum 7200 ped., 4/16 V 1885, ripas fl. Moldscha-su in glareosis N. M. Przewalski s. n. (Isolectotype: PE)
118. *Oxytropis strobilacea* Bunge (Plate 121)
Mem. Acad. Petersb. Ser. VII. 22(1): 103, 1874.
S. W. Mongolia, Alaschan, 20 VI ~ 10 VII 1873, N. M. Przewalski 136 (Paratype: LE)
119. *Oxytropis subcapitata* Gontsch. (Plate 122)
Fl. USSR. 13: 547~548. 1948.
Kara-tau, in declivio argilloso occidentem versus spectante, prope Kur-ssai, Turkestan, 3 V 1935, O. V. Tekutiev 44 (Holotype: LE)
120. *Oxytropis subpodoloba* P. C. Li (Plate 123)
Fl. Xizang. 2: 864, 1985.
On gravel land beside the river, Dengqên, Xizang, 27 VII 1976, Vegetation Group of Qinghai-Xizang Comprehensive Expedition Team 9312 (Holotype: PE)