

- 4(5) 节不計花序多至5枚,其节間仅长3厘米以下;叶多少狭长圆形,长过于寬2倍以上;下唇有长緣毛,其中裂端作兜状.....246. 馬克遜馬先蒿 *P. maxonii* Bonati
- 5(4) 节不計花序仅2—3枚,节間长,有时可达8厘米;叶較寬,长过于寬不及两倍或寬过于长;下唇无緣毛,其中裂不作兜状。
- 6(7) 下唇开裂很深,达全长的2/3;叶稍长过于寬,裂片每边3—4枚.....247. 元宝草馬先蒿 *P. lamioides* H.-M.
- 7(6) 下唇开裂較浅,約1/2;叶寬过于长或最多相等,沿緣作亚掌状8—10裂.....248. 圓叶馬先蒿 *P. rotundifolia* C. E. C. Fisch.
- 8(3) 叶兼有基生者与茎生者,至少前者有长柄,后者有时可以近于无柄。
- 9(16) 花管短,其长不及萼的两倍。
- 10(11) 盔的直立部分的前緣上部有高凸的圆形耳状凸起1对.....242. 团花馬先蒿 *P. sphaerantha* Tsoong
- 11(10) 盔的直立部分的前緣无耳状凸起。
- 12(13) 下唇无緣毛,其中裂不作兜状.....244. 纤莖馬先蒿 *P. tenuicaulis* Prain
- 13(12) 下唇有緣毛,其中裂端常显作兜状。
- 14(15) 叶較小,基生者連柄很少超过3厘米;側方萼齿,尤其后側方的1对显作3裂;下唇全緣,仅有細微的緣毛或无緣毛.....243. 聚花馬先蒿 *P. confertiflora* Prain
- 15(14) 叶較大,基生者連柄可达6厘米以上;側方萼齿端仅稍稍膨大,几全緣或仅有1—3枚鋸齿;下唇有不規則的稜角及明显而常具尖头的嚙痕状齿,并有长緣毛.....241. 弱小馬先蒿 *P. debilis* Franch.
- 16(9) 花管很长,約等于萼的3倍.....249. 春丕馬先蒿 *P. chumbica* Prain

241. 弱小馬先蒿

Pedicularis debilis Franch. ex Maxim. in Bull. Acad. St. Pétersb. XXXII (1888) 549, et in Mém. Biol. XII (1888) 817; Forbes et Hemsl. in Journ. Linn. Soc. Bot. XXVI (1890) 207; Bonati, in Notes Bot. Gard. Edinb. V (1911) 84, et VII (1912) 241; Limpr. in Repert. Sp. Nov. XX (1924) 261; Li, in Proc. Acad. Nat. Sci. Philad. C (1948) 370, f. 82, text-fig. 3 E.

弱小馬先蒿弱小亚种 图版 LXIV, 3

Pedicularis debilis Franch. subsp. *debilis*

一年生草本(?),干时变黑,低矮或略略升高,可达20厘米,仅有微毛。根茎黑色,

图版 LXIV 1—2. 聚花馬先蒿聚花亚种 *Pedicularis confertiflora* Prain subsp. *confertiflora*, 1. 植株×1; 2. 花×2。3. 弱小馬先蒿弱小亚种 *P. debilis* Franch. subsp. *debilis*, 3. 花×2。4. 团花馬先蒿 *P. sphaerantha* Tsoong, 4. 花×2。5. 元宝草馬先蒿 *P. lamioides* Hand.-Mazz. 5. 花×2。
(繪图人馮晉庸)

tis, lobo medio lateralibus duplo majore, basi stipite usque 1.5 mm. longo prominente suffulto, limba 4.5—5 mm. longa, manifeste porrecta, lobis lateralibus quoque breviter stipitatis; stamina paulo supra basin tubi inserta, ad insertiones pubescentia; ovarium anguste ovoideum, circ. 3 mm. longum, appendice circ. 1 mm. longa, inferne basin ovarii amplexante, superne conica, longitudine sua circ. $\frac{1}{3}$ ovario adnata, praedito, stylus 1.5—2 mm. ex apice galeae exsertus.

Yunnan: without exact loc. (T. T. Yu 12689), (type).

240. **Pedicularis alopeculos** Franch. var. **lasiandra** Tsoong, var. nov.

A var. *alopeculos* differt filamentis superne breviter pilosis antherisque longe sparseque pilosis.

Szechuan: without exact loc. (T. T. Yu 3355), (var. type).

241. **Pedicularis debilis** Franch. subsp. **debilior** Tsoong, subsp. nov.—*P. liana* Pennell ex Li, in Proc. Acad. Nat. Sci. Philad. C(1948) 370, text-fig. 3 F, ex Yu 12446, nom. non *P. nudicaulis* Bonati.

A subsp. *debile* differt planta 5—8 cm. tantum alta, foliis plus orbiculatis margineque minus profunde lobatis, circ. ad $\frac{1}{3}$ — $\frac{1}{2}$ vel ultra lobatis, labio infero corollae minus eroso-denticulato, nervis loborum in dentes parvos triangulares excurrentibus.

Yunnan: without exact loc. (T. T. Yu 12446), (subsp. type).

245. **Pedicularis pheulpinii** Bonati subsp. **chilienensis** Tsoong, subsp. nov.—*P. heydei* auct. non Prain: Maxim. in herb.

Usque ad 5—15 cm. alta; ambitu folii ei subspeciei *pheulpini* simile, sed lobis paucioribus (7—14); labio infero majore, ad 10 mm. lato, 7 mm. longo.

Chinghai: Chieh-lien Hsian, Tza-ma-szu, in wet stony places in Picea forest (P. C. Tsoong 8639), VII, 30, 1958 (subsp. type).

268. **Pedicularis tenacifolia** Tsoong, sp. nov. (Ser. Asplenifoliae).

P. umbelliformis auct. non Li: Tsoong in Phytotax. Sinic. III, (1955) 321, et in Bull. Brit. Mus. (Nat. Hist.) Bot. II (1955) 34.

Nostra *P. meyanae* H.-M. arcte propinquat, sed laminis siccis foliorum anni praecedentis tenacissime persistentibus (nec petiolis solum praeditis), lobis foliorum basium paucioribus latioribusque, labio infero haud eroso sed manifeste ciliato satis distare videtur.

Perennis, siccitate nigrescens, 5—7 cm. alta, dense pilosa. Radices fibrosae vel paulo incrassatae subcarnosae, ad 4 cm. longae, 1—2 mm. diam.; collo apice petiolis siccis anni praecedentis saepe cum laminis omnino persistentibus caulibusque vetustis nonnullis interdum intermixtis densissime coronato. Caules 3—5, simplices validiusculi, sulcati, secus sulcos pilis multicellularibus ferrugineis dense praediti ceterum sparse pubescentes, basi squamis late ovatis membranaceis 4—5 mm. longis ornati. Folia omnia basalia, petiolis 2—3 cm. longis, membranaceis, complanatis, secus costam mediam late alatis, circ. 2 mm. latis, margine densissime pilosis, ceterum fere glabris; lamina 1—1.5 cm. longa, 5—6 mm. lata, ovato-oblonga vel anguste ovata, herbacea, utraque pagina pilis ferrugineis sparse, subtus etiam furfuribus albidis in-