

simis, lanceolatis, 7—8 mm longis, 1 mm latis, apice acutis vel obtusis, dorso glabris, juxta apicem corniculatis, intus hirtellis. Achaenia immatura. Pappus albus 5 mm longus.

Sichuan (四川): Kangding (康定), in valle, alt. 3200 m, 1982-07-30, K. Y. Lang (郎楷永) 754; *ibid.*, in valle, alt. 3600 m, 1963-07-20. K. J. Kuan et W. T. Wang (关克俭与王文采) 788 (Typus, PE); *ibid.* 1934-07-11, Z. S. Liou (刘振书) 684; *ibid.* alt. 3300 m, inter frutices, K. Y. Lang (郎楷永) 650.

4 娟毛黄鹌菜 新种

Youngia sericea Shih, sp. nov. — *Youngia gracilipes* auct. non (Hook. f.) Babcock. et Stebbins; Y. C. Tang in C. Y. Wu, Fl. Xizangica 4:965. 1985, p. p.

Herba rosularia perennis, 3—6 cm alta, radice verticali. Caulis principalis inconspicuus, e basi breviter et graciliter ramosus, omnino, vel sub calathidia densius sericeus. Folia basalia, vel subbasalia, ambitu oblanceolata vel longe elliptica, 1—3.5 cm longa, 0.4—1.5 cm lata, utrinque crispato-pubescentia, pinnatipartita, lobis lateralibus 4—5-jugis, oppositis vel obliquis, anguste triangularibus, late falcatis, apice acuminatis, margine fere integris vel latere 1-dentatis, lobis terminalibus longe ellipticis, longe triangulatis vel orbicularibus, apice acutis, rotundatis obtusisve. Calathidia 5—9 in numero, in rosula foliorum inconspicue corymboso-disposita. Flosculi 9 in numero, ligulati flavi, tubis glabris. Involucrum campanulatum, 1 cm longum, cujus phylla 4-seriata, extrema externaque longe ovata usque ad lanceolata, 2—3 mm longa, circiter 1 mm lata, apice obtusa vel acuta, intima internaque lanceolata, 1 cm longa, 1.4 mm lata, apice acuta vel obtusa, margine albo-membranacea, intus glabra, omnia sub fructu nigro-viridia, extus adpresso-crispato-albo-sericea. Achaenia nigra, costis 14, inaequalibus, spinulosis, apice truncata, erostrata. Pappus albus, 6 mm longus.

Ex affinitate *Y. gracilipidi* (Hook. f.) Babcock. et Stebbins., a qua differt involucri phyllis extus sparse albo-sericeis.

Xizang (西藏): Zayü (察隅), in declivitate petrosa, alt. 3400 m, 1935-09, C. W. Wang (王启无) 66254 (Typus, PE); *ibid.*, in declivitate glareosa, alt. 3300 m, 1973-06-21, Qinghai-Xizang Exped. (青藏队) 73-273 (Typus, PE).

5 戟裂黄鹌菜 新种 图 2:1

Youngia hastiformis Shih, sp. nov.

Ex affinitate *Y. wilsonii* Babcock. et Stebbins., e ea differt segmentis terminalibus foliorum hastatis.

Herba annua. Caulis erectus, 27 cm altus, superne corymboso-ramosus, omnino glaber, basi 1 mm in diametro. Folia inferiora mediaque pauca, 2—3 in numero, ambitu elliptica, 4.5 cm longa, 1.5 cm lata vel lanceolata, 5.5 cm longa, 2 cm lata, pinnatisecta vel lyrato-pinnatisecta, segmentis terminalibus triangularibus vel hastatis, segmentis lateralibus triangularibus 1—3-jugis, oppositis vel alternatis vel obliquis, omnibus apice acutis vel acuminatis, margine integris, utrinque glabris; folia superiora linearia, utroque acuminata,

basi in petiolos breviores angustata; folia sub calathidiis lineari-subulata, minima. Calathidia pauca, 7 in numero, ad apicem caulis et ramorum inflorescentiam corymbosam formantia. Involucrum anguste cylindricum, 7 mm longum, sub fructu nigro-viride, cujus phylla 4-seriata, extrema externaque brevissima, ovata, vix 1 mm longa et lata, apice acuta, intima interna lanceolata 7 mm longa, 1 mm lata, intus hirtella, extus glabra. Flosculi ligulati, flavi. Achaenia fusiformia, 2—2.5 mm longa, apice truncata, costis 11, inaequalibus, spinulosis. Pappus albus, 5 mm longus.

Sichuan (四川): Heishui (黑水), ad ripam, alt. 2500 m, 1957-07-21, Li Xin (李馨) 73707 (Typus, PE).

6 康定黄鹤菜 新种

Youngia kangdingensis Shih, sp. nov.

Ex affinitate *Y. yilingii* Shih, e ea differt foliis utrinque papiloso-pilosis.

Herba parva perennis, radice graciliore, verticali vel obliqua. Caulis fere nudus, gracilissimus, 7—14 cm altus, e basi vel medio corymboso-ramosus, glaber vel sub calathidiis sparsim pubescens. Folia basalia ambitu oblanceolata vel elliptica, 0.9—2 cm longa, 0.5 cm lata, petiolata, petiolis 0.5 cm longis, vel pinnatipartita, pinnatisecta, lobis terminalibus ellipticis, oblique triangularibus, margine integris, lobis lateralibus 1—3-jugis, auriculiformibus, vel indivisa, linearia vel lineari-lanceolata, basi in petiolos breves cuneato-angustata; folia ad furcas ramorum inflorescentiae minima, subulata vel bracteiformia; omnia utrinque vel subtus papiloso-pilosa. Calathidia 3—5 in numero, ad apicem caulis et ramorum inflorescentiam corymbosam irregulariter formantia, pedunculis gracillimis et longioribus. Flosculi 15 in numero, flavi ligulati. Involucrum anguste cylindricum, 8 mm longum, cujus phyllis 4-seriatis, extremis externisque brevissimis, triangularibus vel ovatis, 1 mm longis, vix 1 mm latis, apice obtusis, intimis intermisque longissimis, longe ellipticis, 8 mm longis, 1.2 mm latis, ad apicem dorso corniculatis, omnibus extus glabris. Achaenia fusiformia, 3.4 mm longa, costis 12, inaequalibus, spinulosis, erostrata. Pappus 5.4 mm longus, albus.

Sichuan (四川): Kangding (康定), inter frutices alpinos, alt. 3300 m, 1982-07-26, K. Y. Lang et al. (郎楷永等) 650 (Typus, PE).

7 尖裂黄鹤菜 新种

Youngia cristata Shih et Cai*, sp. nov.

Y. parvae Babcock et Stebbins valde similis, sed differt aliquibus phyllis intimis internisque dorso juxta apicem corniculatis.

Herba caespitosa perennis rosularis, 4 cm alta, caule principali brevissimo inconspicuo, superne inconspicue corymboso-ramoso, omnino sparse tomentosa vel glabrescenti. Folia densa, caulina; tamquam rosularia, basi in petiolum alatum 2 cm longum angustata, utrinque sparse tomentosa, ambitu oblanceolata, 2—2.5 cm longa, 1 cm lata, pinnatipartita,

* Cai Chu-qin (蔡淑琴)

mm longum, sub fructu nigro-viride, cujus phyllis 4-seriatis, extremis externisque brevissimis, late ovatis, 1.5 mm longis et latis, apice acutis vel obtusis, intimis internisque longis-



图2 1. 戟裂黄鹌菜; 2. 怒江黄鹌菜。(蔡淑琴绘)
Fig. 2 1. *Youngia hastiformis* Shih; 2. *Y. nujiangensis* Shih.