

SOME NEW SPECIES OF COMPOSITAE OF CHINA

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Crepis scaposa Chang sp. nov.

Herba perennis. Rhizoma breviter cylindrica crassa laxè brunneo-lanuginosa sublignosa. Caulis erectus striatus multiramis, basi plus minus puberulus. Folia omnia radicalia chartacea spathulata, basi cuneata in brevipetiolum angustata, irregulariter lyrato-pinnatipartita, segmento terminali multo majore oblongo-ovato rotundato crenato-denticulato, segmentis lateralibus parvis denticulatis, utrinque puberula, subtus purpurea, caulina squamosa, axillantia brunneo-arachnoidea, nervi pinnati subtus prominentes, petiolo tenui basi in vaginam dilatato et brunneo-lanuginoso. Inflorescentia patula, paniculato-corymbosa, capitula pauca, circiter 4-6-flora. Involucrum tubiforme, bractis glabris, biseriatis, interioribus saepissime 5 linearibus, apice obtussimis ciliatis, exterioribus 5 parvis ovatis. Flores lutei, ligula 5-6-dentata; stamina 5; antherae luteae apiculatae, basi breviter auriculatae, filamentis glabris; styli rami tenues elongati papilloși. Achaenia cylindrica vel subprismatica longitudinaliter 10-costata papillosa, apice truncata nec in rostrum attenuata sericeo-atrobrunnea. Pappus uniserialis, setosus, subfragilis, sordide albus. Receptaculum subconvexum nudum.

Caulis ad 25 cm. altus. Folia 13-14.5 cm. longa, petioli 1-3 cm. longi. Involucri bractae extimae 0.5-1 mm. longae, intimae 6.5-7 mm. longae, 1-1.3 mm. latae. Ligula 5.5 mm. longa, 2.5 mm. lata, tubi 2 mm. longi; filamenta 1 mm. longa, antherae 3.5 mm. longae; stylus 7-7.5 mm. longus. Receptaculum 1 mm. diametro. Pappus 3.5 mm. longus. Achaenium 2.3 mm. longum.

Herbs perennial. Rootstock short-cylindric thick loosely brown-lanuginose subligneous. Stem erect striate many-branched, more or less puberulent at base. Leaves all radical chartaceous spatulate, cuneate at base into short-petioles, irregularly lyrate-pinnatipartite, terminal segment much larger oblong-ovate rounded at apex crenate denticulate, lateral segments small denticulate, puberulent on both sides, purple

beneath, cauline leaves scaly, brown-arachnoide in axils, nerves pinnate prominent beneath, petiole slender dilate and brown-lanuginose at base. Inflorescence broad paniculate-corymbose, heads small, about 4-6-flowered. Involucre tubular, bracts glabrous, biseriate, outer 5 minute ovate, inner usually 5 linear, obtuse ciliate at apex. Flowers yellow, ligules 5-6-dentate; stamens 5, anthers yellow, apiculate, short-auriculate at base, filaments glabrous; style-arms slender elongate papillose. Achenes cylindrical or subprismatical longitudinally-10-ribbed papillose, truncate without beak attenuate at apex sericeous-deep-brown. Pappus uniseriate, setosus, subfragile, dirty-white. Receptacle subconvex naked.

Stem up to 25 cm. high. Leaves 13-14.5 cm. long, petiole 1-3 cm. long. Invol. bracts; outer 0.5-1 mm. long, inner 6.5-7 mm. long, 1-1.3 mm. wide. Ligules 5.5 mm. long, 2-5 mm. wide, tube 2 mm. long; filaments 1 mm. long, anthers 3.5 mm. long; style 7-7.5 mm. long. Receptacle 1 mm. in diam. Pappus 3.5 mm. long. Achenes 2.3 mm. long.

Szechuen: Chi-kiang Hsien, alt. 3000-4000 ft., on roadside, *W. P. Fang* 1280 (type! in the herbarium of National Central University, Nanking) June 10, 1928. "Herb, 1-2 ft. high; leaves green above and red below; heads yellow."

This *Crepis* is not allied to any other Chinese species. It is characterized by its scape, numerous corymbose branches and few-flowered heads. (Figure 1).

***Inula lanuginosa* Chang, sp. nov.**

Herba (perennis ?). Caulis ferrugineo-arachnoideus, sulcatus, ramosus. Folia radicalia non visa. Caulina oblongo-lanceolata vel lanceolata, acuta vel acuminata, basi cuneata, denticulata vel integra, supra sparse villosa, subtus albo-tomentosa, ferrugineo-villosa ad nervis superne gradatim minora, oblanceolata, subsessilia, basi paulo-auriculata. Inflorescentia paniculato-corymbosa. Capitula pedunculata, mediocria, coerulea (Tsiang!), pedunculis gracilis, bracteatis, albo-tomentosa. Involucrum subcampanulatum; phylla subtriseriata, subimbriata, albo-villosa, interioribus linearia, margine scariosa, exterioribus brevioribus. Flores radii feminei 1-3, uniseriati vel

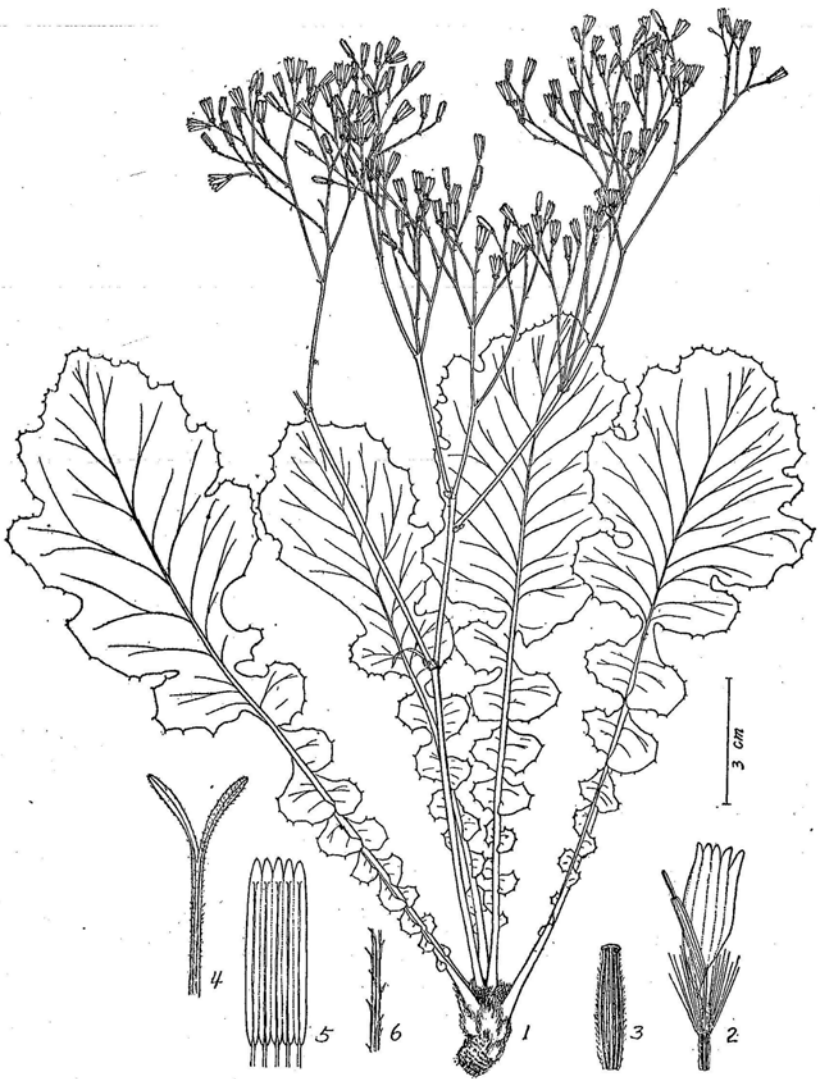


Figure 1. *Crepis scaposa* Chang, sp. nov.

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| 1. Habit sketch, natural size. | 5. Anthers, enlarged. |
| 2. Single floret, enlarged. | 6. A portion of pappus-bristle, enlarged. |
| 3. Mature achene, enlarged. | |
| 4. Style-arms, enlarged. | |