中国高原芥属二新种

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TWO NEW SPECIES OF CHINESE CHEISTOLEA

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关键词 高原芥属,喀喇昆仑高原芥,龙木错高原芥

1. 喀喇昆仑高原芥 新种 图 1: 1-10

Christolea karakorumensis Y. H. Wu et Z. X. An, sp. nov.

Species nova affinis *Ch. proliferae* (Maxim.) Jafri, sed a qua differt laminis foliorum pectinatim 7—9-pinnatipartitis, sepalis basi connatis, petalis cyano-purpureis vel smaragdinis, glandulis lateralibus insidentibus, ovario glabro.

Herba perennis, 2—4 cm alta, omnino albo-villosa. Caulis erectus, simplex. Folia carnosula, isabellina, ambitu spathulata vel rhomboideo-spathulata, 10—14 mm longa, 6—9 mm lata, laminis pectinatim 7—9-pinnatipartitis, utrinque villosis, elevate venosis, basi in petiolum canaliculatum gradatim attenuatis. Racemus dichotomus mutiflorus; pedicelli c. 4 mm longi, dense vellei; sepala anguste oblonga, supra medium purpurea, infra medium flava, cyathiformiter connata, pilosa, apice obtusa, margine flavo-membranacea, 4—5.5 mm longa, duo interiora 2—2.5 mm lata, duo exteriora c. 1.5 mm lata, ventre basi incystata; petala spathulata vel obovato-cuneiformia, superne cyano-purpurea vel smaragdina, inferne et pro parte media flava, 7—8 mm longa, 2.5—3 mm lata, apice truncata, basi in unguem angustata glandulis lateralibus insidentia; stamina 6; filamentis carnosulis, compressis, brevioribus 3—4 mm longis, longioribus 4—5 mm longis, antheris ovato-oblongis 1 mm longis, apice mucronulatis; glandulae nectariferae laterales binatim conjugatae, semiovoidae, basi latere exteriore connatae, glandulae mediae nullae; ovarium anguste ellipticum, glabrum;

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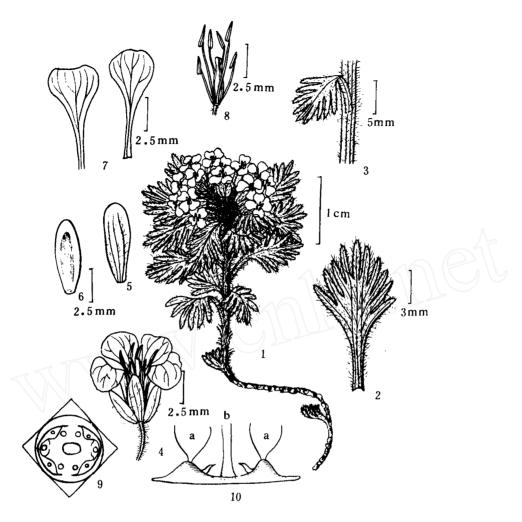


图 1 喀喇昆仑高原芥 1. 植株; 2. 叶; 3. 茎和叶; 4. 花; 5. 花萼背面; 6. 花萼腹面; 7. 花瓣; 8. 雌蕊和雄蕊; 9. 侧密腺位置示意图; 10. 成对联合的侧密腺横展开; a. 花瓣; b. 短花丝。(阎翠兰绘)
Fig. 1 Christolea karakorumensis Y. H. Wu et Z. X. An; 1. plant; 2. leaf; 3. stem and leaf; 4. flower; 5. dorsal view of ealyx; 6. ventral view of calyx; 7. petal; 8. pistil and stamen; 9. schematic drawing, showing the position of lateral nectaries; 10. tranverse spread of a pair of lateral nectaries: a. petal; b. short filament.

stigma bilobum. Siliquae maturae ignotae.

Xinjiang (新疆): Pishan (Guma) (皮山), Shenxianwan (神仙湾), ad glaram alpinam alt. 5250 m, 1989-07-25, Karakorum-Kunlun Exp. 5100 (Typus, NWBI).

多年生草本,高 2—4 cm,全株被白色绵毛。茎直立,不分枝。叶肉质,土黄色,匙形或菱状匙形,长 10—14 mm,宽 6—9 mm,叶片 7—9 指状深裂,两面被柔毛,有明显的隆起脉纹,叶片基部渐狭成有纵沟的叶柄。总状花序二歧式,具多花,花梗长约 4 mm,密被棉毛,萼片狭长圆形,中部以上黑紫色,中部以下淡黄色而联合成简状,被疏柔毛,顶端钝,有淡黄色膜质边缘,长 4—5.5 mm,内轮的两片宽 2—2.5 mm,外轮的两片宽约 1.5 mm,花瓣匙形或倒卵状楔形,上部蓝紫色或鲜绿色,中部和下部淡黄色,长 7—

8 mm,宽 2.5—3 mm,顶端截形而稍下凹,基部渐狭成爪,着生于侧密腺上;雄蕊 6,花 丝稍肉质,稍扁,短花丝长 3—4 mm,长花丝长 4—5 mm,花药卵状长圆形,顶端有时 具小尖头;侧密腺成对联合,半卵球形,外侧基部合生,无中密腺,子房狭椭圆形,无毛,柱头 2 裂。角果未见。花期 7—8 月。

本种同丛生高原芥*Ch. prolifera* (Maxim.) Jafri 相似,但区别点在于:叶片 7—9 指状深裂,萼片基部连合,花瓣蓝紫色或鲜绿色,着生于侧密腺上;子房无毛。

2. 龙木错高原芥 新种 图 2: 1-10

Christolea longmucoensis Y. H. Wu et Z. X. An, sp. nov.

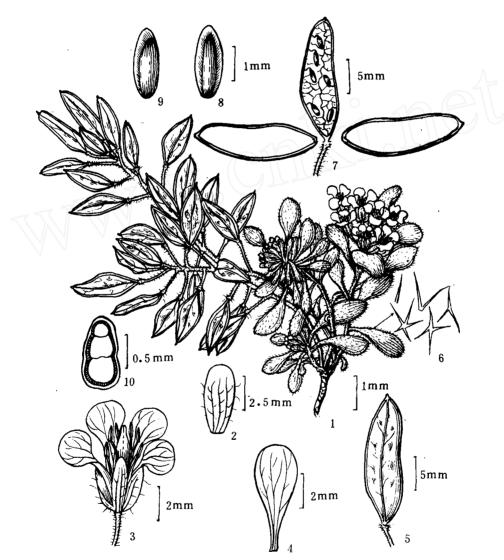


图 2 龙木错高原芥 1. 植株; 2. 花萼; 3. 花; 4. 化癰; 5. 炎果; 6. 已放大; 7. 英果製开,中间示隔膜和种子; 8. 种子背面; 9. 种子腹面; 10. 水湿后的种子横切面。(阎翠兰绘)
Fig. 2 Christolea longmucoensis Y. H. Wu et Z. X. An; 1. plant; 2. calyx; 3. flower; 4. petal; 5. pod;

Fig. 2 Christolea longmucoensis Y. H. Wu et Z. X. An. 1. plant; 2. calyx; 3. flower; 4. petal; 5. pod 6. enlarged hair; 7. pod opened up, showing intermediate septum and seeds; 8. dorsal view of seed; 9. ventral view of seed; 10. the cross section of a watered seed

Species nova affinis *Ch. stewartii* (T. Anders.) Jafri, sed laminis foliorum integerrimis, siliquis longe ellipticis vel ovato-ellipticis, 8—20 mm longis, 3—7 mm latis, seminibus c. 2. 2 mm longis differt.

Herba perennis, 4—8 cm alta, radice crassa descendenti, rhizomate ad basim ramoso. elongato tenuissimo, 1—2 mm crasso, ochroleuco. Folia basalia rosulata, carnosula, spathulata vel rhomboideo-spathulata vel anguste elliptica, 1—2.5 cm longa, 2—6 mm lata, integerrima, apice obtusa, basi in petiolum gradatim attenuata, utrinque pilis stellatis bifurcatis simplicibus sparsim obsita. Racemus terminalis, 6—22-florus; pedicelli c. 6 mm longi, villosi; sepala purpurea, anguste oblonga, villosa, apice obtusa, 5—6 mm longa, c. 2 mm lata, duo interiora leviter latiora; petala obovato-cuneiformia, purpurea, 6—8 mm longa, 2.5—3.5 mm lata, apice truncata, basi in unguem angustata; ovarium anguste ellipsoideum glabrum. Siliquae maturae longe ellipticae vel ovato-ellipticae, 8—20 mm longae, 3—7 mm latae, compressae, glabrae, purpureae vel flavo-virentes, costa expressa, septo membranaceo intacto; semina anguste ellipsoidea, spadicea c. 2.2 mm longa, cotyledonibus radiculae dorso accumbentibus.

Xizang (西藏): Rutog (日土), Longmu Co (龙木错), ad glaram alpinam, alt. 5380 m, 1987-09-02, Karakorum-Kunlun Exp. 1302 (Typus NWBI).

多年生草本,高 4—8 cm。主根粗状下伸,根状茎细长,粗 1—2 mm,黄白色,近基部分枝,基生叶丛莲座状,肉质,匙形或菱状匙形或狭椭圆形,连叶柄长 1—2.5 cm. 宽 2—6 mm,全缘,顶端钝,基部渐狭成柄,两面疏被星状毛、2 叉毛和单毛。总状花序顶生,6—22 朵花;花梗长约 6 mm,密被白色长柔毛;萼片紫色,窄长圆形,顶端圆钝,被长柔毛,长 5—6 mm,宽约 2 mm,内轮的两片稍宽;花瓣倒卵状楔形,紫红色,长 6—8 mm,宽 2.5—3.5 mm,顶端截形,基部渐狭成爪;子房狭椭圆形,无毛。角果长椭圆形或卵状椭圆形,长 8—20 mm,宽 3—7 mm,扁平,无毛,紫色或黄绿色,中脉明显,隔膜白色膜质,完整;种子长圆形,亮棕色,长约 2.2 mm,子叶背倚胚根。花果期 6—9 月。

本种同少花高原芥 Ch. stewartii (T. Anders) Jafri 相似,但区别点在于:叶片全缘; 角果长椭圆形或卵状椭圆形,长 8—20 mm,宽 3—7 mm,种子长约 2.2 mm。