

青海棘豆属三新种

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THREE NEW SPECIES OF THE GENUS OXYTROPIS FROM QINGHAI

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关键词 棘豆属, 新种

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玛多棘豆 新种 图 1

Oxytropis maduoensis Y. H. Wu, sp. nov.

Species nova affinis *O. kansuensi* Bunge, sed planta acaule, pilis dense vestita, foliis non nisi 1. 5 ~ 6 cm longis, foliolis ovatis vel oblongis 2 ~ 7 mm longis, 1 ~ 3 mm latis, pedunculis 1 ~ 6 cm longis, vexilliorum limbis longo - ovatis, alis apice oblique obtusis vel interdum retusis differt.

Perennis, 3 ~ 8 cm alta. Radix palaris brunneola. Caulis nullus. Folia 1. 5 ~ 6 cm longa, petiolis cupreis, 5 ~ 25 mm longis, cum rhachidibus pilis patulis vestitis; stipulae ovato - lanceolatae, in medio inter se connatae, 6 ~ 9 mm longae, dense adpresso albo - villosae; foliola 15 ~ 25, ovata vel oblonga, 2 ~ 7 mm longa, 1 ~ 3 mm lata, apice acuta, basi rotundata, utrinque dense adpresso albo vel stramineo - villosa. Racemus in capitulum compositus, dense multiflorus, pedunculus 1 ~ 6 cm longus, dense albo - et immixtonigro - pilosus; bracteae membranaceae, ovato - lanceolatae, 5 ~ 8 mm longae, pilis albis et brunneis parce vestitiae; calyx tubuloso - campanulatus, 8 ~ 10 mm longus, 3 ~ 4 mm latus, interdum paulo turgidus, dense nigro - pubescens et immixto - albo - pilosus, dentibus sublatis, c. 3 mm longus; corolla flava; vexillum c. 13 mm longum, limbo longo - ovato, 6 ~ 7 mm lato, apice emarginatum, ungue 5 ~ 6 mm longo; alae c. 11 mm longae, limbo anguste obovato, apice oblique obtusa vel interdum retusa, ungue 6 mm longo, auriculis 1. 5 mm longis; carinae 9 ~ 10 mm longae, mucrone 0. 5 ~ 1 mm longa, unguibus 5 ~ 6 mm longis; ovarium linearies, pilis vestitum vel glabrum. Legumen ignotum.

Qinghai: Maduo Xian (玛多县), ad pratis alpinam. alt. 4 300 m, 1976 - 07 - 25, Wu Yuhu (吴玉虎) 021 (Typus, HNWP); Chengduo Xian (称多县), Qingshuihe (清水河), alt. 4 450 m, 1966 - 05 - 24, Zhou Lihua (周立华) 007; Qumalai Xian (曲麻莱县) Qumahe (曲麻河) alt. 4 500 - 4 600 m, 1966 - 07 - 09, Huang Rongfu (黄荣福) 063.

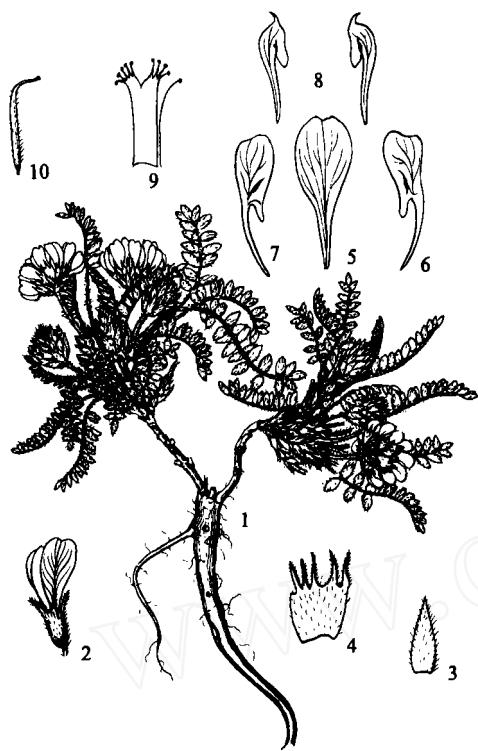


图 1 玛多棘豆 *Oxytropis maduoensis* Y. H. Wu, 1. 植株;
2. 花; 3. 苞片; 4. 花萼展开; 5~7. 雄蕊; 8. 龙骨瓣;
9. 雄蕊; 10. 子房。(阎翠兰绘)

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多年生草本，高3~8 cm。主根褐色。无茎呈垫状。羽状复叶长1.5~6 cm；叶柄紫铜色，长5~25 mm，与叶轴同被开展毛；托叶卵状披针形，于中部合生，长6~9 mm，密被贴伏白色长柔毛；小叶15~25枚，卵形或长圆形，长2~7 mm，宽1~3 mm，先端急尖，基部圆形，两面密被贴伏的白色或草黄色长柔毛。总状花序呈头状，密生多花，总花梗长1~6 cm，密被白色并混生黑色长柔毛；苞片膜质，卵状披针形，长5~8 mm，疏被白色和褐色柔毛；花萼筒状钟形，长8~10 mm，宽3~4 mm，有时稍膨胀，密被黑色短柔毛和白色长柔毛，萼齿钻状，长约3 mm；花冠黄色；旗瓣长约13 mm，瓣片卵形，宽约6~7 mm，先端微凹，爪长5~6 mm；翼瓣长约11 mm，瓣片狭倒卵形，先端斜钝圆或偶有微凹，爪长约6 mm，耳长约1.5 mm；龙骨瓣长9~10 mm，喙长0.5~1 mm，爪长5~6 mm；子房线形，无毛或被毛。荚果未见。花期5~7月。

本种同甘肃棘豆 *O. kansuensis* Bunge 相近。但植物无茎呈垫状，全株密被毛，叶长仅1.5~6 cm，小叶卵形或长圆形，长2~7 mm，宽1~3 mm，总花梗仅长1~6 cm，旗瓣的瓣片长卵形，翼瓣先端斜钝圆，可以区别。

玛沁棘豆 新种 图 2

Oxytropis maqinensis Y. H. Wu, sp. nov.

Species nova affinis *O. xinglongshanica* C. W. Chang, sed stipulis ovato-lanceolatis vel lanceolatis, 9~12 mm longis, dense albo-pilosus, racemis dense multifloris, bractis lanceolatis vel ovato-lanceolatis, 6~11 mm longis, albo-pilosus et brunneo-pilosus mixtis, leguminibus 15~20 mm longis, seminis 2~3 mm longis differt.

Perennans, 20~40 cm alta. Radix palaris brunneola. Caulis erectus, sulcus expertia, parce albo et nigro-pubescent. Folia 5~14 cm longa, petiolis 0.5~4 cm longis, cum rhachidilus parce pilis vestitis; stipulae inferae medio inter se connatae sed superae liberae, ovato-lanceolatae vel lanceolatae, 9~12 mm longae, dense albo-pilosae; foliola 15~23, ovato-lanceolata vel oblonga, 6~17 mm longa, 2~5 mm lata, apice acuminata, basi rotundata, urrinque pilis albis adpresso sparse vestitis. Racemus dense multiflorus; pedunculus 10~16 cm longus, pilis albis sparse vestitus vel interdum pilis nigris mixtus, interdum sub inflorescentia dense nigro-pubescentibus; bracteae lanceolatae vel ovato-lanceolatae, 6~11 mm longae, dense albo-pilosae et brunneo-pilosus mixtis; calyx tubuloso-campanulatus, c. 11 mm longus, c. 3.5 mm latus, densius, albo-pilosus et brunneo-pubescent, dentibus linearibus 5~6 mm longis, corolla pallide violacea; vexillum 15~16 mm longum, limbo ovato c. 8 mm lato, apice emarginato, ungue c. 6 mm longo; alae 14 mm longae, limbo oblique longo-obovato, c. 4 mm lato, apice obtuso vel paulo retuso, unguibus c. 6 mm longis; carinae 12 mm longae, apice cum mucrone c. 1

mm longae, unguibus c. 6 mm longis; ovarium lineare, glabrum vel parce pubescens. Legumen oblongum, 15~20 mm longum, c. 4 mm latum, ventre protunde sulcatum apice acutum, pilis subpatentibus nigris vel albis dense vestitus. Semina reniformia, 2~3 mm longa, brunnea.

Qinghai: Maqin Xian (玛沁县), Xihalong (西哈垄), ad pratis alpinam, alt. 3 550 m. 1990 - 08 - 04, Wu Yuhu (吴玉虎) 5 722 (Typus, HNWP); Wu Yuhu 5 700, 5 688, 5 708, 5 633; Maduo Xian (玛多县), Heihai (黑海), alt. 4 000 - 4 500 m. 1981 - 09 - 16, Du Qing (杜庆) 512; Henan Xian (河南县), Amishan (阿米山), 1972 - 07 - 19, Guo Benzha (郭本兆) 9811; Xinghai Xian (兴海县), Sanatai (撒那台), alt. 3 330 m. 1963 - 07 - 12. ?205; Gonghe Xian (共和县), Cakagou (茶卡沟), alt. 3 600 m. 1975 - 08 - 10, Guo Benzha 12 066.



图2 玛沁棘豆 *Oxytropis maqinensis* Y. H. Wu, 1. 植株; 2. 花萼; 3. 旗瓣; 4~5. 翼瓣;
6. 龙骨瓣; 7. 雄蕊; 8. 子房; 9. 苹果。(阎翠兰绘)

多年生草本，高 20~40 cm。主根褐色。茎直立，无沟槽，疏被白色和黑色短柔毛。羽状复叶长 5~14 cm，叶柄长 0.5~4 cm，与叶轴疏被毛；下面的托叶于中部合生，上面的托叶离生，卵状披针形或披针形，长 9~12 mm，密被白色长柔毛；小叶 15~23 枚，卵状披针形或长圆形，长 6~17 mm，宽 2~5

mm, 先端渐尖, 基部圆形, 两面疏被白色贴伏柔毛。总状花序密生多花; 总花梗长 10~16 cm, 疏被白色或有时混生黑毛, 近花序处常密被黑色短柔毛; 苞片披针形或卵状披针形, 长 6~11 mm, 密被白色和褐色长柔毛; 花萼筒状钟形, 长约 11 mm, 宽约 3.5 mm, 密被白色长柔毛和褐色短柔毛, 萼齿线形, 长 5~6 mm; 花冠淡蓝紫色; 旗瓣长 15~16 mm, 瓣片卵形, 宽约 8 mm, 先端微凹, 爪长约 6 mm; 翼瓣长 14 mm, 瓣片斜长倒卵形, 宽 4 mm, 先端钝或偶有不明显微凹, 爪长 6 mm; 龙骨瓣长 12 mm, 噎长约 1 mm, 爪长 6 mm; 子房线形, 无毛或疏被毛。荚果长圆形, 长 15~20 mm, 宽约 4 mm, 腹缝线深凹, 先端急尖, 密被半开展的白色和黑色柔毛。种子肾形, 长 2~3 mm, 褐色。花期 7~8 月, 果期 8~9 月。

本种同兴隆山棘豆 *O. xinglongshanica* C. W. Chang 相似, 但本种托叶卵状披针形或披针形, 长 9~12 mm, 密被白色长柔毛, 总状花序密生多花, 苞片披针形或卵状披针形, 长 6~11 mm, 密被白色和褐色长柔毛, 荚果长 15~20 mm, 种子长 2~3 mm, 可以区别。

青南棘豆 新种 图 3

Oxytropis qingnanensis Y. H. Wu, sp. nov.

Species nova affinis *O. qilianshanica* C. W. Chang et C. L. Zhang, sed vexillis 10 mm longis, 7~8 mm latis, alis vexillis aequilongis, 3~4 mm latis; limbo oblique longo - obovato, apice retusi; leguminibus oblongis, brunnescens, 8~10 mm longis differt.



图 3 青南棘豆 *Oxytropis qingnanensis* Y. H. Wu, 1. 植株;
2. 幼叶及托叶; 3. 托叶; 4. 苞片; 5. 花萼; 6. 旗瓣; 7~8.
翼瓣; 9. 龙骨瓣; 10. 子房; 11. 荚果和苞片。

(阎翠兰绘)

Perennans, 10~16 cm alta. Radix palaris brunnea. Caulis nullus. Folia 3~10 cm longa, petiolus 1~5 cm longus, cum rhachis parce patulo - albo - pilosus; stipulae herbaceae, 1/3 inter se connatae et petiolam adnatae (parte libera triangulo - lanceolatae), 6~13 mm longae, albo - villosae; foliola 15~23, ovata vel oblonga vel ovato - lanceolata 3~13 mm longa, 2.5~5 mm lata, apice acuta, basi rotundata, utrinque pilis albis adpresso vestitis. Racemus dense multiflorus, pedunculus folio longior vel id aequans, parce patuluo - albo - pulosus, sub inflorescentia nigro - pubescentiis dense immixtus; bracteae lineares, 4~6 mm longae, albo - villosae; calyx tubuloso - campanulatus, 6~7 mm longus, dense nigro - pubescens et albo - pilosus immixtus, dentibus subulatis, tubum subaequans, utrinque pilis vestitis; corolla violacea; vexillum c. 10 mm longum, limbo ovato - rotundatum, 7~8 mm lato, apice emarginatum, ungue c. 3 mm longo; alae c. 10 mm longae, limbo oblique longo - obovato, 3~4 mm lato, apice oblique retusae, unguibus c. 2.5 mm longis; carinae c. 8 mm longae, mucronibus 0.5~1 mm longis, unguibus c. 2.5 mm longis; ovarium lineare, pilis albis parce vel dense vestitis. Legumen coriaceum, oblongum, brunnescens, 8~10 mm longum, 3~4 mm latum, rostro c. 1.5

mm longo, parce albo-pubescent.

Qinghai: Nangqian Xian (囊谦县), Baiza (白扎), ad prope sylvam alpinam. alt. 3900 - 4100 m. 1985 - 06 - 18, Wang Weiyi (王为义) 266 (Typus, HNWP); Wang Weiyi 1985 - 06 - 13, 008, 090.

多年生草本，高 10~16 cm。主根褐色。无茎。羽状复叶长 3~10 cm，叶柄长 1~5 cm，与叶轴疏被白色开展长柔毛；托叶革质，下部 1/3 合生并与叶柄贴生，分离部分三角状披针形，长 6~13 mm，被白色长柔毛；小叶 15~23 枚，卵形或长圆形，卵状披针形，长 3~13 mm，宽 2.5~5 mm，先端急尖，基部圆形，两面被白色贴伏柔毛。总状花序密生多花；总花梗长于或等于叶，疏被开展的白色长柔毛，近花序处和花序轴同时混生很密的黑色短柔毛；苞片线形，长 4~6 mm，被白色长柔毛；花萼筒状钟形，长 6~7 mm，密被黑色短柔毛和白色长柔毛，萼齿钻状，与萼筒近等长，两面被毛；花冠蓝紫色；旗瓣长约 10 mm，瓣片卵圆形，宽 7~8 mm，先端微凹，爪长 3 mm；翼瓣长 10 mm，瓣片斜长倒卵形，宽 3~4 mm，先端斜微凹，爪长 2.5 mm；龙骨瓣长 8 mm，喙长 0.5~1 mm，爪长 2.5 mm；子房线形，疏或密被白色柔毛。荚果革质，长圆形，淡棕色，长 8~10 mm，宽 3~4 mm，先端具喙长约 1.5 mm，疏被白色短柔毛。花果期 6~9 月。

本种同祁连山棘豆 *Oxytropis qilianshanica* C. W. Chang et C. L. Zhang 相似，但本种花大，旗瓣长 10 mm，宽 7~8 mm；翼瓣等长于旗瓣，宽 3~4 mm，瓣片斜长倒卵形，先端微凹，荚果长圆形，淡棕色，长 8~10 mm，可以区别。

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云南雀梅藤属二新种 *

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TWO NEW SPECIES OF THE GENUS SAGERETIA
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