

四川乌头属一新种和一新变种

张文锦¹, 陈光后²

(1. 彭州市疾病预防控制中心, 四川 彭州 611930 2. 成都市药品检验所, 四川 成都 610061)

摘要: 目的 拓展新药源。方法 野外调查和采集。结果 对采自四川省会理县龙带山的乌头属标本与其近缘种进行对比鉴别, 认定 1 新种 1 新变种。结论 龙带山乌头 *Aconitum longzhoushanense* W. J. Zhang et G. H. Chen sp. nov. 为一个新种; 长柄铁棒锤 *Aconitum flavum* Hand. —Mazz. var. *longpetiolatum* W. J. Zhang et G. H. Chen var. nov. 为一个新变种。

关键词: 乌头属; 龙带山乌头; 长柄铁棒锤; 新种; 新变种; 中国四川

中图分类号: R94

文献标识码: A

文章编号: 1006-0103(2008)05-0519-02

A new species and a new variety of *Aconitum* L. from Sichuan, China

ZHANG Wen-jin¹, CHEN Guang-hou²

(1. Pengzhou County Centre of Disease Prevention and Control, Pengzhou 611930, China; 2. Chengdu Municipal Institute for Drug Control, Chengdu 610061, China)

Abstract: OBJECTIVE To search the resources of the new medicinal plants. METHODS These new materials plants were investigated and collected in field. RESULTS These new specimen plants of *Aconitum* L. Province were collected in Mt. Longzhou Huili Xian, Sichuan. Based on a species and a variety feature they severally differentiate with relative species or proto-varieties. CONCLUSION

Aconitum longzhoushanense W. J. Zhang et G. H. Chen sp. nov. is a new species; 2. *Aconitum flavum* Hand. —Mazz. var. *longpetiolatum* W. J. Zhang et G. H. Chen var. nov. is a new varieties.

Key words: *Aconitum* L.; *Aconitum longzhoushanense* W. J. Zhang et G. H. Chen; *Aconitum flavum* Hand. —Mazz. var. *longpetiolatum* W. J. Zhang et G. H. Chen; New species; New variety; Sichuan, China

CLC number: R94

Document code: A

Article ID: 1006-0103(2008)05-0519-02

1 龙带山乌头

新种见图 1

Aconitum longzhoushanense W. J. Zhang et G. H. Chen sp. nov. fig. 1

Species nova affinis *A. bulbiferum* Hand. —Mazz. sed differt tuberibus dauciformibus pance partialibus aliquot fasciculatis carpellis 3 (—4) (—5), Petiolis cum laminis subaequilongis vel paulo brevibus: 3—6 cm longis bracteolis lanceolatis 4—5 mm longis: 3 mm latius sepalis extus puberulis petalum calcaribus: 2 mm longis. Species necnon affinis *A. vilmoriniano* Kom. sed a qua carpellis folliculique 3 (—4) (—5), foliis ad 3—10 mm supra bases tripartitis vel trisectionis bracteis inferioris foliiformibus trisectionis vel indivisis folliculis 3 (—4) (—5), reduncis differt.

Tubera dauciformia 4—6 cm longa: 1.5 cm crassa simplicia vel ramosa pauca partialia aliquot fasciculata. Caulis volubiles 1.5—3 m longi dense piloselli. Foliorum laminae chartaceae ambitu rotundato—

pentagonae 6—8 cm longae 5—14 cm latae basi alte cordatae ad 3—10 mm supra basin tripartitae vel trisectionis apice acuto segmentum medio late rhombico trilobo ad trifido segmentis lateralibus ambitu oblique flabellatis inaequaliter 2—fidis supra sparsis pilosellis subtus ad nervos reduncis rare flavido—pilosellis. Petioli laminaeque subaequilongi vel paulo breves 3—6 cm longi supra densi redunci flavido—pubescentes. Racemi axillares 2—8—flores 5—10 cm longi thaches cum pedicellis retrorso—pubescent densi. Pedicelli 4—6 cm longi bractee inferiores foliiformes trisectionis vel indivisae obli elliptici 1.5—4 cm longi 0.5—1.5 cm lati puberuli bractee lanceolatae 4—5 mm longae: 3 mm latae densae retrorso—pubescentes. Sepala caeruleo—purpurea extus pubescentes superius galeatum: 1.5 cm latum a basi ad apicem rostri: 1.5 cm longum medio: 1 cm latum margine frontali subverticali cum eo infero arcuato rostrum breve efformante rostri: 3 mm longum lateralibus subrotunda vel obovata: 1.5 cm lata extus pubescentia intus sparse albedo—villosa inferioria inaequalia anguste oblonga vel linearia: 3

作者简介: 张文锦 (1936—), 副主任药师, 从事药用植物研究。

1.1 cm longa; c 3—5 mm lata Petala c 1.5 cm longa; c 4 mm lata, limbus c 1 cm longis labiis c 4 mm longis apice 2—lobatis calcaribus brevibus circinatis c 2 mm longis Stamina glabra filamentis margine integris Carpella 3(—4)(—5), glabra vel subglabra Folliculi 3(—4)(—5), aliquantum reduncii 2—2.5 cm longi Semina obovata c 4 mm longa; c 2 mm lata membranacea in unum lateraliam lepidio—alata membranacea amphitropa Fl. et Fr. Aug—Oct.

China Sichuan(四川) Huilixian(会理县) longzhoushan(龙帚山) xiaoheshangxiang(小黑箐乡) alt 3.1 km 2007—09—27 Ch. W. Tan et al(谭成万等) 2007—9—1(holotype) 2007—9—2(cons. reg. in Herbarium, School of Pharmacy Sichuan University) 2007—9—3 2007—9—4(isotype cons. reg. in Chengdu Municipal Institute for Drug Control).

块根胡萝卜形,长 4~6 cm,粗约 1.5 cm,单一或分枝,一少部分数个簇生。茎缠绕,长 1.5~3 m,密被短柔毛。叶片纸质,圆五角形,长 6~8 cm,宽 5~14 cm,基部宽心形,三深裂至距基部 3~10 mm 处或三全裂,顶端急尖,中央裂片宽菱形,三浅裂至三全裂,侧裂片斜扇形,不等二深裂,上面疏被短柔毛,下面沿叶脉疏被弯曲的淡黄色短柔毛;叶柄与叶片近等长或稍短,长 3~6 cm,密被反曲的淡黄色柔毛。总状花序腋生,长 5~10 cm,有 2~8 朵花,花序轴和花梗密被反曲的柔毛,花梗长 4~6 cm。下部苞片叶状,三裂或不裂,裂片椭圆形,长 1.5~4 cm,宽 0.5~1.5 cm,被短柔毛;小苞片披针形,长 4~5 mm,宽约 3 mm,密被弯曲的短柔毛。萼片兰紫色,外面被短柔毛,上萼片盔形,高约 1.5 cm,自基部至喙长约 1.5 cm,中部宽约 1 cm,外缘近垂直,与弧状的下缘形成短喙,喙长约 3 mm;侧萼片近圆形或宽倒卵形,宽约 1.5 cm,外面疏被短柔毛,内面被白色长柔毛;下萼片不等大,狭长圆形或条形,长约 1.1 cm,宽约 3~5 mm。花瓣长约 1.5 cm,宽约 4 mm,瓣片长约 1 cm,唇长约 4 mm,先端 2 裂,距短,拳卷,长约 2 mm;雄蕊无毛,花丝全缘;心皮 3(—4)(—5),无毛或近无毛。蓇葖 3(—4)(—5),弧状弯曲,长 2~2.5 cm。种子倒卵圆形,长约 4 mm,宽约 2 mm,棕黑色,在一侧生有鳞状横翅。花期及果期 8~10 月。

本种近似于珠芽乌头 *A. bulbiferum* Hand—Mazz., 但区别在于块根胡萝卜形,少部分数个簇生;心皮 3(—4)(—5);叶柄与叶片近等长或稍短,长约 3~6 cm;小苞片线状披针形,长 4~5 mm,宽约 3 mm;萼片外面被短柔毛,花瓣的距短,长约 2 mm。本种也近于黄草乌 *A. vilmorinianum* Kom., 但心皮及

蓇葖 3(—4)(—5),茎下部的苞片叶状,三裂或不裂,蓇葖向后弯而不同。



图 1 龙帚山乌头图

Fig 1 *Aconitum longzhoushanense* W. J. Zhang et G. H. Chen

2 长柄铁棒锤

新变种见图 2

Aconitum flavum Hand—Mazz. var. *longipetiolatum* W. J. Zhang et G. H. Chen var. nov. fig 2

A. affinis var. flavo sed differt Foliis caulibus inferius longis petiolatis adg. m longis basibus vaginis Foliis medians petiolatis 3—5 cm longis utrinque pubestis thalchibus cum pedicellis densis patenter flavido—villosis Carpellis et folliculis densis flavido villosis

China Sichuan(四川) Huilixian(会理县) longzhoushan(龙帚山) alt 3.8 km 2007—09—28 Ch. W. Tan et al(谭成万等) 2007—9—6(holotype) 2007—9—7(cons. veg. in Herbarium, School of Pharmacy Sichuan University) 2007—9—8 2007—9—9(isotype cons. veg. in Chengdu Municipal Institute for Drug Control).



图 2 长柄铁棒锤

Fig 2 *Aconitum flavum* Hand—Mazz. var. *longipetiolatum* W. J. Zhang et G. H. Chen

本变种与原变种伏毛铁棒锤 *A. flavum* Hand—Mazz. var. *flavum* 的区别在于茎下部的叶具长柄,长可达 8 cm,基部具短鞘,中部的叶的柄长 3~5 cm,叶两面被短柔毛,花序轴及花梗密被开展的长柔毛,心皮及蓇葖密被黄色长柔毛。

参考文献(略)

收稿日期: 2007—10—