

昂赛披碱草——青海禾本科一新种

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摘 要 对青海禾本科一新种——昂赛披碱草 (*Elymus angaiensis* S. L. Lu et Y. H. Wu) 进行了形态描述和图解。该种与黑紫披碱草 (*E. atralus* (Nevski) Hand-Mazz) 相近, 但本种的叶鞘顶端两侧具披针形叶耳; 穗状花序较疏松; 小穗具小穗柄长约 1 mm, 且具微毛; 颖片窄披针形, 长 4~5 mm; 花药黄色或黄绿色, 长约 1.5 mm, 可以区别。

关键词 中国; 青海; 披碱草属; 昂赛披碱草; 新种

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Elymus angaiensis—A New Species of the Family Gramineae from Qinghai, China

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Abstract *Elymus angaiensis* S. L. Lu et Y. H. Wu, a new species of Gramineae from Zadoi County, Qinghai Province, is described and illustrated. The new species is related to *Elymus atralus* (Nevski) Hand-Mazz. But it is distinguished by it with auricles on top at the both sides of sheath. Spike is loose; spikelet with pedicel 1 mm long, the pedicel with pubescences; glumes are narrow lanceolate, 4-5 mm long; anthers is yellow or yellow-green, 1.5 mm long.

Key words China; Qinghai; *Elymus*; *Elymus angaiensis*; new species

我们在国家自然科学基金项目进行野外考察时, 在青海省玉树州杂多县昂赛乡采集到了披碱草属的一个新种——昂赛披碱草 (*Elymus angaiensis*), 其生境为海拔 4 200 m 的高山流石坡。

1 昂赛披碱草 (新种) 图 1~2

Elymus angaiensis S. L. Lu et Y. H. Wu sp. nov. photo. 1-2

Species nova affinis *Elymus atralus* (Nevski) Hand-Mazz, sed apice vaginis auriculis manifestis; spicis laxis, spiculis pedicellis 1 mm longis, pubescentes; glumis angusti-lanceolatis, glabris, 4-5 mm longis; antheris fulvis vel flavovirentis, c. 1.5 mm longis differt

Perennis Culmi singulati, glabri, saepissime 3-nodes memnonius, 30-50 cm alti; Vaginae foliorum interodiis breviores, glabrae; auriculae manifestae, lanceolatae, c. 1 mm longae; ligulae c. 0.5 mm longae, truncatae; laminae 2.5-7 cm longae, 2-5 mm latae, saepe complanatae vel margine involutae, utrinque glabrae, margine hispida fortuito; Spica laxa, flexus, pendula, purpurea, (4)-13 cm longa; spiculae saepe binatus, non nisi basin et tip solitaria, rachis glabra, serpentiana, interodiis generatim 8-17 mm longis; spiculae 8-15 mm longae, 3-4-florae, pedicellus 1 mm longae, pubescentes; rachillae dense pubescentes, aristiculis 2-3 mm longis; glumae angusti-lanceolatae, glabrae, nervis scarbio-

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sus, apice pungentes, gluma prima c. 4 mm longa, 1-nerves, secunda c. 5 mm longa, 3-nerves; lemmata oblongo-lanceolata, supra medium distincte 5-nervia, dorso sparse spinulosa, apice purpuro-aristata, aristis 5 - 15 mm longis, scabrosis, erectis vel reflexis parum, disco pilosae, primo 7 - 9 mm longo; paleae lemmata aequantes, vel breviores, 2-carinatus, ubique teneris et brevibus spinosae, supra inter teneris et brevibus spinosae sparsim, apice truncatae, cil-

iatae; antherae fulvae vel flavovirentae, c. 1.5 mm longae

Qinghai 青海: Zadoi County (杂多县), Angsai Xiang (昂赛乡), Southwest valley (西南沟)。In alpine scree, alt. 4200 m. 2005 - 07 - 10, Wu Yuhu (吴玉虎) 33 295-B (Holotypus in QTMB) (Qinghai-Tibetan Plateau Museum of Biology, the Chinese Academy of Sciences = HNWP) 模式标本存中国科学院青藏高原生物标本馆。

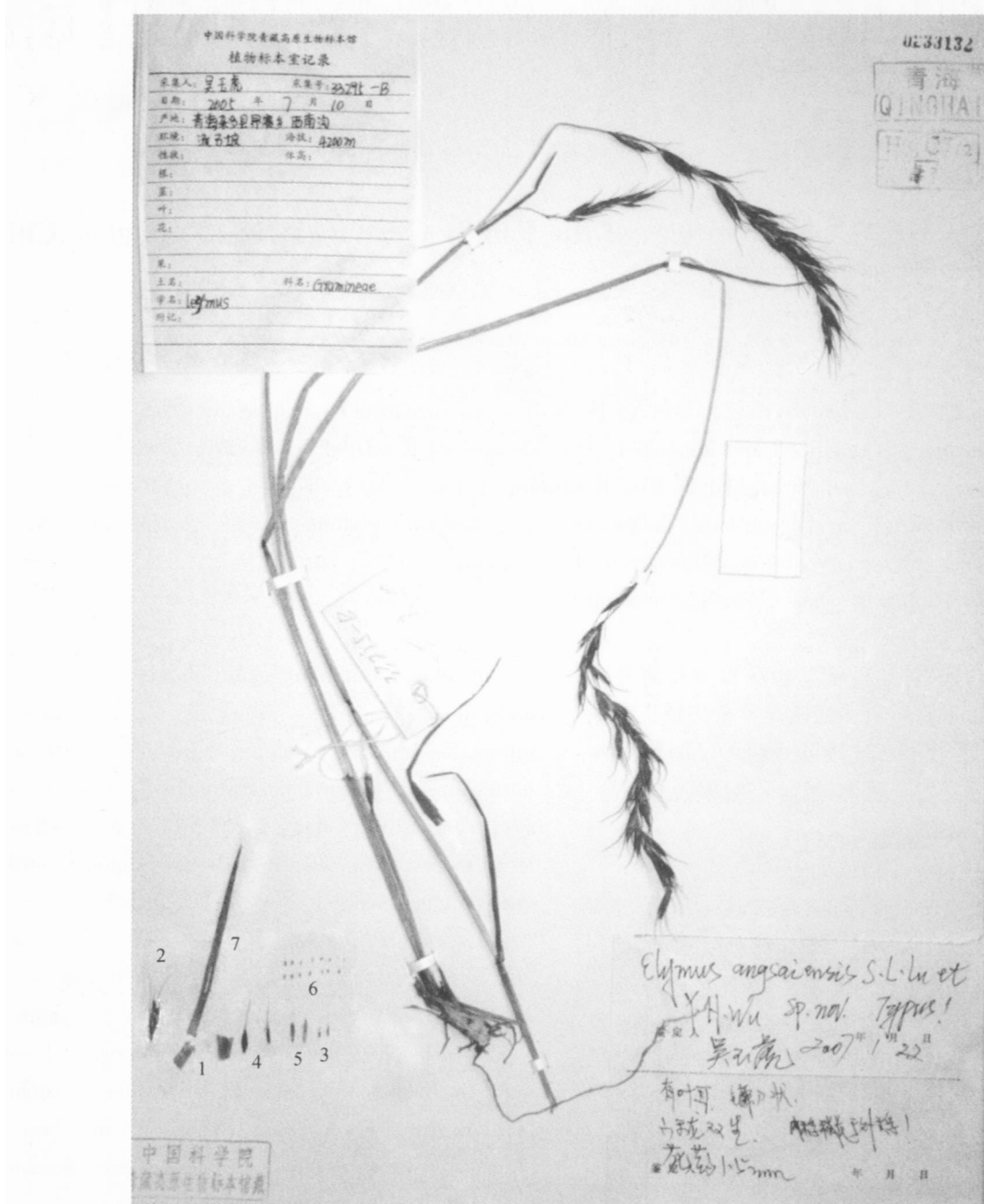


图 1 昂赛披碱草 (模式标本)

Fig 1 *Elymus angsaensis* S. L. Lu et Y. H. Wu, sp. nov. (Holotypus)

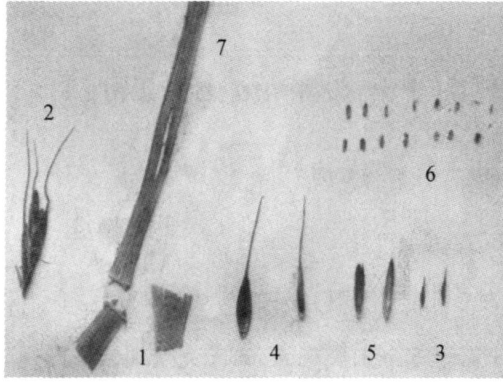


图2 昂赛披碱草 1. 叶鞘局部, 示叶耳; 2. 完整的小穗; 3. 颖; 4. 外稃; 5. 内稃; 6. 花药; 7. 叶片上面

Fig. 2 *Elymus angσαιensis* S. L. Lu et Y. H. Wu, sp. nov.
1. Part of leaf sheath, showing auricles; 2. Whole spikelets; 3. Glumes; 4. Lemmas; 5. Paleas; 6. Anthers; 7. Adaxial surface of leaf blade

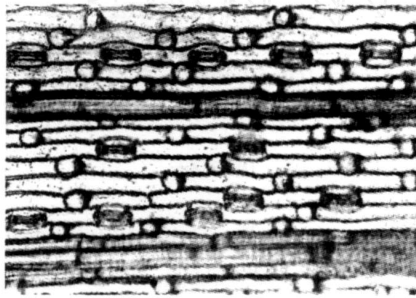


图3 昂赛披碱草叶片下表皮解剖

Fig. 3 The anatomy of abaxial epidermis of leaf blade of *Elymus angσαιensis* S. L. Lu et Y. H. Wu

多年生。秆常单生, 平滑无毛, 具 3 节, 节呈黑色, 高 30 ~ 50 cm; 叶鞘平滑无毛, 短于节间, 叶鞘顶端两侧具长约 1 mm 的披针形叶耳, 叶舌长约 0.5 mm, 先端截平; 叶片长 2.5 ~ 7 cm, 宽 2 ~ 5 mm, 扁平或边缘内卷, 两面无毛, 边缘偶有粗毛。穗状花序稍疏松, 弯曲, 下垂, 紫色, 长 (4) ~ 13 cm; 小穗通常孪生, 仅在顶端和基部单生; 穗轴无毛, 常蜿蜒状, 节间长 8 ~ 17 mm; 小穗长 8 ~ 15 mm, 含 3 ~ 4 花, 具长约 1 mm 的短柄, 具有微毛; 小穗轴密被短柔毛, 节间长 2 ~ 3 mm; 颖片窄披针形, 脉上粗糙, 先端锐尖, 第一颖长约 4 mm, 具 1 脉, 第二颖长约 5 mm, 具 3 脉; 外稃长圆状披针形, 上半部明显具 5 脉, 背部疏生小刺毛, 顶端具芒长 5 ~ 15 mm, 紫色,

粗糙, 直或稍外弯, 基盘具毛, 第一外稃长 7 ~ 9 mm; 内稃近等长于外稃或稍短, 具 2 脊, 脊全部具微刺毛, 脊间上部亦疏被微刺毛, 顶端平截, 具纤毛; 花药黄色或黄绿色, 长约 1.5 mm。花期 7 月。

本种叶片下表皮短细胞稀少, 偶存脉上, 略呈马鞍形; 长细胞长方形, 纵向相接成行而平行排列于叶片的脉上和脉间, 细胞壁较厚、平直; 气孔器 2 ~ 3 列分布于脉间, 保卫细胞哑铃形, 副卫细胞平行形; 刺细胞数目较多, 呈带状分布于脉间。

2 讨论

本种与黑紫披碱草 (*E. atralus* (Nevski) Hand-Mazz) 近似, 但其叶鞘顶端两侧具披针形叶耳; 穗状花序较疏松; 小穗不偏向一侧; 具小穗柄长约 1 mm, 且具微毛; 颖片窄披针形; 长 4 ~ 5 mm; 花药黄色或黄绿色, 长约 1.5 mm。而后的叶鞘无叶耳; 穗状花序紧密, 小穗常偏向一侧; 无被毛的小穗柄; 颖片近于长圆形, 长 2 ~ 4 mm; 花药黑色, 长约 1 mm, 故而可以区别^[1-6]。所以, 我们认为, 该新种虽与后一种具有一定的亲缘关系, 但其间的区别仍然非常明显, 作为独立的新种应该成立。本种属于中国特有种。

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