

## 新疆天山三角草属(禾本科)一新种

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A new species of *Trikeriaia* Bor. (Gramineae)  
from Tianshan Mts. in Xinjiang of China

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**Key words** *Trikeriaia tianshanica* S. L. Lu et X. F. Lu; New species; Tianshan Mts.; Xinjiang, China**关键词** 天山三角草; 新种; 天山; 中国新疆

## 天山三角草 新种 图 1

***Trikeriaia tianshanica*** S. L. Lu et X. F. Lu, sp. nov. Fig. 1

Species insignis spiculis suis majusculis (12~14 mm longis), a speciebus nobis notis bene distincta. Differt a *Trikeriaia hookeri* (Stapf) Bor. glumis et lemmate 5-nervio, antheris ca. 1.2 mm longis, arista lemmatis in medio geniculata, ca. 10 mm longa, inferne torta.

Herba perennis leviter caespitosa, intra emarcidam vaginulam ramificans. Culmi rigidi glabri erecti, 20~45 cm alti, basi 1~1.5 mm diam., 2~3-nodi. Vaginulae cinereo-brunneae, emarcididae persistentes; vaginae caulinae glabrae, superiores internodiis breviores, aliquando summae panicula inclusae; ligulae crasse membranaceae, ca. 0.5 mm longae, apice obtusae, margine erosae laceraeque, ciliolatae. Laminae 3~9 cm longae, ca. 0.5 mm latae, plerumque involutae ut aciculares, rigidae, aliquantum scabrae, utrinque glabrae, scaberulae. Panicula 6~7 cm longa, 1~1.5 cm lata, angusta, contracta, in quoque nodo 1(2)-rama, vulgo secunda. Rami suberecti usque ascendentes, usque ad 3.5 cm longi, superne 1~4-spicati, setulosi. Spiculae margine et apice purpureo-brunneae, 12~14 mm longae, stramineae. Pedicelli 2.5~5.5 mm longi, superne setulosi vel scabri. Glumae subaequilongae, 13~14 mm longae, lanceolatae, crasse chartaceae, dorso scabrae, apice acuminatae, 5-nerviae, nervis prope apicem absentibus. Lemma glumis leviter brevius, chartaceum, ca. 10 mm longum, dorso pilosum, pilis ca. 2 mm longis, apice fissum ad ca. 1/3 longitudine lemmatis, 2-dentatum, dentibus aristatis, 5-nervae, laterali nervo usque ad apicem. Arista ca. 3.5 mm longa, ca. 10 mm longa, in medio geniculata, inferne torta, setulosa, superne usque apice scabra. Palea oblonga vel elliptica, lemmate paulo brevior, ca. 7 mm longa, 2-nervia, inter nervos glabra, nervos versus pilosa. Lodiculae 3, lineari-lanceolatae, ca. 1 mm longae, apice acutae. Antherae 3, lineares, ca. 1.2 mm longae, flavidae. Caryopsis oblonga vel ellipsoidea, ca. 4 mm longa, pallide brunnea, glabra.

**China. Xinjiang (新疆):** Ürümqi (乌鲁木齐), Daxigou Valley (大西沟), the mouth of

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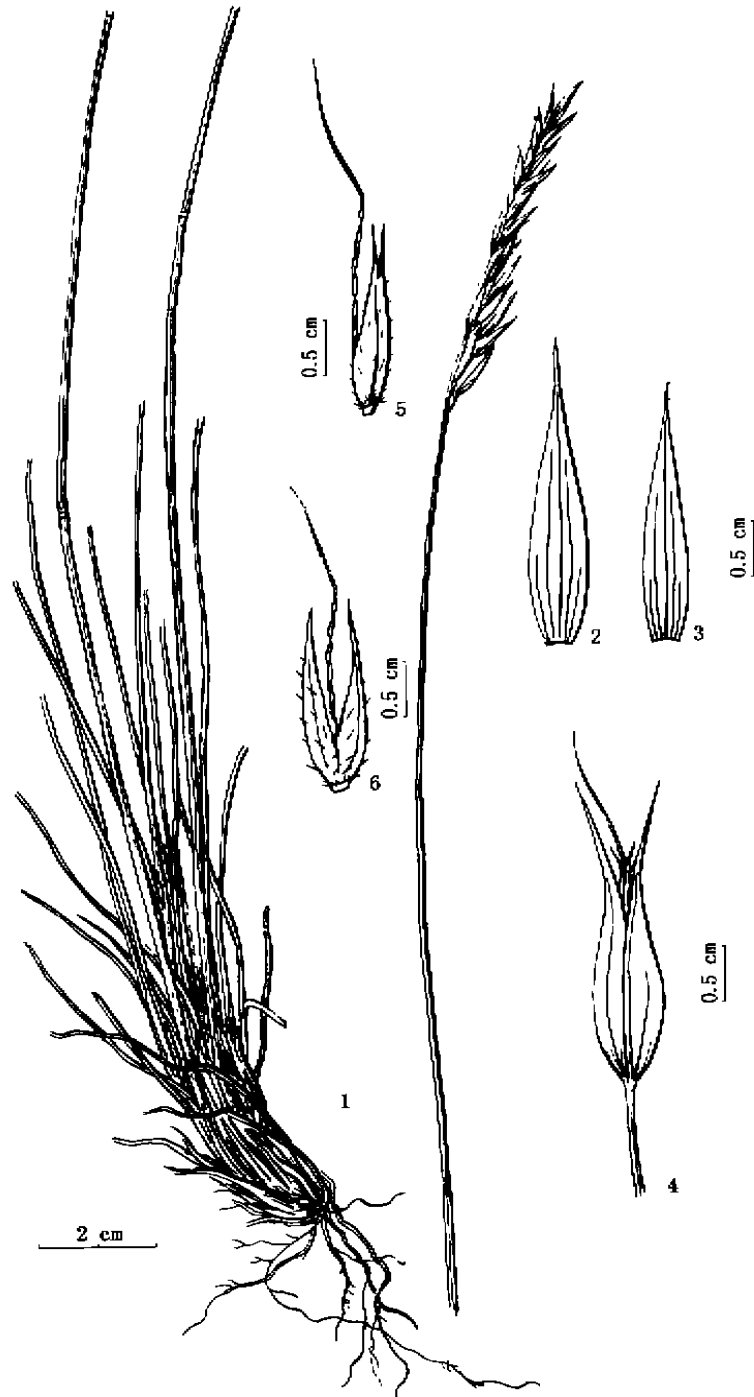


Fig. 1 *Trikeria tianshanica* S. L. Lu et X. F. Lu, sp. nov. 1. Plant; 2. First glume; 3. Second glume; 4. Spikelet; 5. Lemma (lateral), showing awn and hairs; 6. Lemma (back).

Bulate branch-valley (布拉特沟), on grassland of hillside, alt. 2800 m, 1998-08-17, M. Peng, G. C. Chen *et al.* (彭敏, 陈桂琛等) PCCZ-T175 (holotype, here designated, HNWP).

In small tufts with several culms and a little short-shoot, 20 ~ 45 cm tall, branching intravaginal. Culms base 1 ~ 1.5 mm in diameter, with persistent gray brown withered sheaths, rigid, glabrous, erect, 2 ~ 3-noded. Sheaths glabrous, the upper ones shorter than internodes, sometimes the uppermost covered by panicle. Ligules thick membranous, about 0.5 mm long, apex obtuse, margin gnawed or torn, ciliolate. Blades usually involute, rigid, roughish, 3 ~ 9 cm long and up to ca. 0.5 mm broad, glabrous. Panicle 6 ~ 7 cm long and 1 ~ 1.5 cm broad, narrowed and contracted, with 1(2) branch in each node, usually one-sided. Branches erect, sometimes base ascending, up to 3.5 cm long, setulose or rough, with 1 ~ 4 spikelets. Spikelets 12 ~ 14 mm long, yellow-brown with 1 flower. Pedicels 2.5 ~ 5.5 mm long, setulose or rough. Glumes equal somewhat, back rough, long lanceolate or lanceolate, thick papery with purple-brown margin and apex, 5-nerved, veins absent near the apex, apex acuminate, 13 ~ 14 mm long. Lemma slightly shorter than glumes, papery, about 10 mm long, back diffuse with about 2 mm long hairs, apex cut to 1/3 of lemma with 2 awned teeth, 5-nerved, lateral veins up to the apex, sometimes lateral veins becoming 2 points at the tip, costa expanded into a long awn. Awn borne at about 3.5 mm from the base in the back of lemma, about 10 mm long, geniculate near the medium, the lower part twisted, rough, upward the tip becoming roughish. Palea slightly shorter than lemma, about 7 mm long, 2-nerved, pilose on ridges, glabrous between the ridges. Anthers linear, ca. 1.2 mm long, yellow. Lodicules linear-lanceolate or ovate-lanceolate, ca. 1 mm long. Caryopsis oblong or long ellipsoid, about 4 mm long, glabrous. Fl. Jun. - Aug. Fr. Aug. - Sept.

This is a distinctive species, easily recognized by having bigger spikelets (12 ~ 14 mm long) and glumes and lemma 5-nerved, having no robust flagelliform rhizome covered by withered persistent squamiform leaves and by having anthers c. 1.2 mm long, awn geniculate in medium, with the lower part twisted.

In Fl. Reip. Pop. Sin. Vol. 9(3) (p. 316 ~ 319), only two species were recorded in the genus *Trikeria* Bor., i. e. *T. hookeri* and *T. pappiformis*. Both species occur only in the Qinghai-Xizang Plateau and thus *Trikeria* was considered to be an endemic genus to this region. Our new species differs from them in morphology and geographical distribution as well, and represents the first record of this genus out of the Qinghai-Xizang Plateau.

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