

39. PANZERINA Soják, Cas. Nár. Muz. v Praze 150: 216. 1981.

脓疮草属 nong chuang cao shu

Herbs perennial. Stems solitary or numerous. Leaves long petiolate, palmately lobed. Verticillasters axillary, many flowered, in spikes; bracteoles spiny, spreading or erect, shorter than calyx tube. Flowers sessile. Calyx tubular-campanulate, conspicuously 5-veined; teeth 5, broadly triangular, apex spinescent, 2 anterior teeth ± longer than posterior 3. Corolla white to yellow-white, 2–4 cm, 2-lipped; tube ca. as long as calyx tube, without hairy annulus inside; upper lip straight, galeate, densely villous outside; lower lip straight, 3-lobed; middle lobe cordate, margin membranous. Stamens 4, parallel, anterior 2 slightly longer; anthers ovoid, cells 2, transversely dehiscent, parallel. Style filiform, slightly exerted or as long as stamens, apex equally 2-cleft. Nutlets triquetrous, ovoid, apex rounded.

Two species: China, Mongolia, Russia; both in China.

Some authors have recognized to seven species, but these are connected by many transitional forms.

- 1a. Plant sparsely soft gray pubescent or almost glabrous; verticillasters usually in lax spikes 1. *P. canescens*
- 1b. Plant ± densely white tomentose; verticillasters in short dense spikes 2. *P. lanata*

1. *Panzerina canescens* (Bunge) Soják, Cas. Nár. Muz. v Praze 150: 216. 1981.

灰白脓疮草 hui bai nong chuang cao

Panzeria canescens Bunge, Delect. Sem. Horto. Bot. Dorpat: 15. 1839; *Leonurus canescens* (Bunge) Benthams; *L. bungeanus* Schischkin.

Herbs perennial. Taproots woody. Stems many, 30–35 cm, sparsely villous. Petiole 2–4.5 cm; leaf blade broadly ovate, 3–4 cm wide; stem leaves palmately 5-partite from 1/2 its length nearly to base, villous, abaxially with scattered yellowish glands. Verticillasters 8–14-flowered, in long terminal spikes; floral leaves 1–3 cm wide, 3-partite; bracteoles rigid, linear-subulate, spreading, ca. 1 cm, spinescent. Calyx tubular-campanulate, ca. 1.6 cm, sparsely pubescent, tube ca. 1.1 cm; teeth narrowly triangular, apex long spinescent, anterior teeth 6.5–7.5 mm, posterior teeth ca. 4.5 mm. Corolla 2.5–3 cm, long villous, tube ca. 1.1 cm; upper lip straight, oblong, galeate; lower lip oblong, subpatent; middle lobe larger, obcordate, 2-lobulate; lateral lobes ovate. Fl. Jul.

Stony dry areas. Xinjiang [Mongolia, Russia].

2. *Panzerina lanata* (Linnaeus) Soják, Cas. Nár. Muz. v Praze 150: 216. 1981.

绒毛脓疮草 rong mao nong chuang cao

Herbs perennial. Stems numerous, much branched, base ± woody, minute tomentose. Stem leaves circular to broadly ovate, 3.5–6 cm in diam., palmately 5-lobed to 1/2 its length to palmately partite, abaxially white tomentose or long villous; lobes cuneate, pinnately divided or crenate. Verticillasters many flowered; floral leaves 3-partite; bracteoles subulate, spinescent, tomentose or villous. Calyx densely tomentose or long villous, tube 1.3–1.5 cm; teeth triangular, apex spinescent, anterior teeth 3.5–7 mm, posterior teeth 2–4 mm. Corolla yellowish or white, 2–3.5 cm, silky-villous, tube ca. 2 cm. Nutlets ca. 2–3 mm. Fl. Jul.-Sep.

Stony, sandy desert steppes; 900–2700 m. Gansu, Nei Mongol, Ningxia, Shaanxi, Xinjiang [Mongolia, Russia].

- 1a. Stems sparsely minute tomentose; calyx teeth narrowly triangular, apex long spinescent, anterior teeth to 7 mm; corolla 3–3.5 cm ... 2a. var. *lanata*
- 1b. Stems densely tomentose; calyx teeth short subulate-spinescent.
 - 2a. Corolla 2–2.2 cm 2c. var. *parviflora*
 - 2b. Corolla 3–3.5 cm.

- 3a. Anterior calyx teeth 5–6 mm 2c. var. *albescens*
- 3b. Anterior calyx teeth 3.5–4 mm.

- 4a. Leaves palmatipartite for 3/4–2/3 their length, lobes narrowly cuneate, 2–8 mm wide 2b. var. *alaschanica*
- 4b. Leaves palmatipartite for 2/3–1/2 their length, lobes broadly cuneate, 4–10 mm wide 2d. var. *argyracea*

2a. *Panzerina lanata* var. *lanata*

绒毛脓疮草 rong mao nong chuang cao

Ballota lanata Linnaeus, Sp. Pl. 2: 582. 1753; *Leonurus lanata* (Linnaeus) Persoon; *Panzeria lanata* (Linnaeus) Bunge, *P. tomentosa* Moench.

Stems sparsely minute tomentose. Calyx teeth narrowly triangular, apex long spinescent, anterior teeth to 7 mm. Corolla 3–3.5 cm.

Stony sandy desert steppes. Gansu, Nei Mongol [Mongolia, Russia].

2b. *Panzerina lanata* var. *alaschanica* (Kuprianova) H. W. Li, Novon 3: 264. 1993.

脓疮草 nong chuang cao

Panzeria alaschanica Kuprianova, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 15: 363. 1953.

Leaves palmatipartite for 2/3–3/4 their length, lobes narrowly cuneate, 2–8 mm wide.

• Sandy areas; 900–1400(–2700?) m. Nei Mongol, Ningxia, Shaanxi, Xinjiang.

2c. *Panzerina lanata* var. *albescens* (Kuprianova) H. W. Li, Novon 3: 264. 1993.

变白变种 bian bai bian zhong

Panzeria albescens Kuprianova, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 15: 363. 1953.

Stems densely tomentose. Calyx teeth short subulate-spinescent, anterior teeth 5–6 mm. Corolla 3–3.5 cm.

Desert steppes, sandy areas. Gansu, Nei Mongol, Xinjiang [Mongolia, Russia].

2d. *Panzerina lanata* var. *argyracea* (Kuprianova) H. W. Li, Novon 3: 264. 1993.

银白变种 yin bai bian zhong

Panzeria argyracea Kuprianova, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 15: 364. 1953.

Leaves palmatipartite for 1/2–2/3 their length; lobes broadly cuneate, 4–10 mm wide. Calyx teeth short subulate-spinescent, anterior teeth 3.5–4 mm. Corolla 3–3.5 cm.

Nei Mongol [Mongolia, Russia].

2e. *Panzeria lanata* var. *parviflora* (C. Y. Wu & H. W. Li) H. W. Li, Novon 3: 264. 1993.

小花变种 xiao hua bian zhong

Panzeria parviflora C. Y. Wu & H. W. Li, Acta Phytotax. Sin. 10: 164. 1965.

Stems densely tomentose. Calyx teeth short subulate-spinescent. Corolla 2–2.2 cm.

- Dry areas. Xinjiang.

