

## A new *Tapinocyba* Simon, 1884 from southern China (Aranei: Linyphiidae)

## Новый вид *Tapinocyba* Simon, 1884 из Южного Китая (Aranei: Linyphiidae)

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KEY WORDS: taxonomy, spiders, Erigoninae, new species.

КЛЮЧЕВЫЕ СЛОВА: таксономия, пауки, Erigoninae, новый вид.

**ABSTRACT.** A new species, *Tapinocyba emei* sp.n., is described on the basis of males from the Sichuan Province, China. The new species is similar to the Taiwan *T. formosa* Tanasevitch, 2011, but is clearly distinguished by the elongated radix, claw-shaped embolus, as well as by the shape of the palpal tibia.

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**РЕЗЮМЕ.** Новый вид *Tapinocyba emei* sp.n. описан по самцам из провинции Сычуань, Китай. Вид близок к *T. formosa* Tanasevitch, 2011, известному с Тайваня, но хорошо отличается вытянутым радиксом, когтевидным эмболом, а также формой голени пальпы.

### Introduction

At present, the Holarctic genus *Tapinocyba* Simon, 1884 contains 37 species [World Spider catalog, 2018]. Most occur in the West Palearctic, largely Europe, and only four species are distributed in Asia east of the Yenisei biogeographical border: *T. formosa* Tanasevitch, 2011, from Taiwan [Tanasevitch, 2011], *T. kolymensis* Eskov, 1989, widespread in the Russian Far East [Mikhailov, 2013] and China [Song *et al.*, 1999]; two species, *T. silvicultrix* Saito, 1980 and *T. suganarii* Saito et Ono, 2001, from Japan [Ono *et al.*, 2009]. The new species taken from the Sichuan Province, China has recently been found in the spider collection of the Senckenberg Museum, Frankfurt am Main, Germany (SMF). The description of this species is given below.

### Material and methods

This paper is based on spider material collected from the Sichuan Province, China by Peter Jäger and kept at the SMF.

Specimens preserved in 70% ethanol were studied using a MBS-9 stereo microscope and a Wild compound microscope. A Levenhuk C-800 digital camera was used for the execution of some drawings. Images of multiple focal sections were combined using Helicon Focus image stacking software. The chaetotaxy is given in a formula, i.e. 1.1.1.1, which refers to the number of dorsal spines on tibiae I–IV. The sequence of leg segment measurements is as follows: femur + patella + tibia + metatarsus + tarsus. All measurements are given in millimeters. Scale lines in the figures correspond to 0.1 mm or 0.5 mm. Figure numbers are given above the scale lines, the distance below.

The terminology of copulatory organs mainly follows that of Merrett [1963], Holm [1979] and Hormiga [2000].

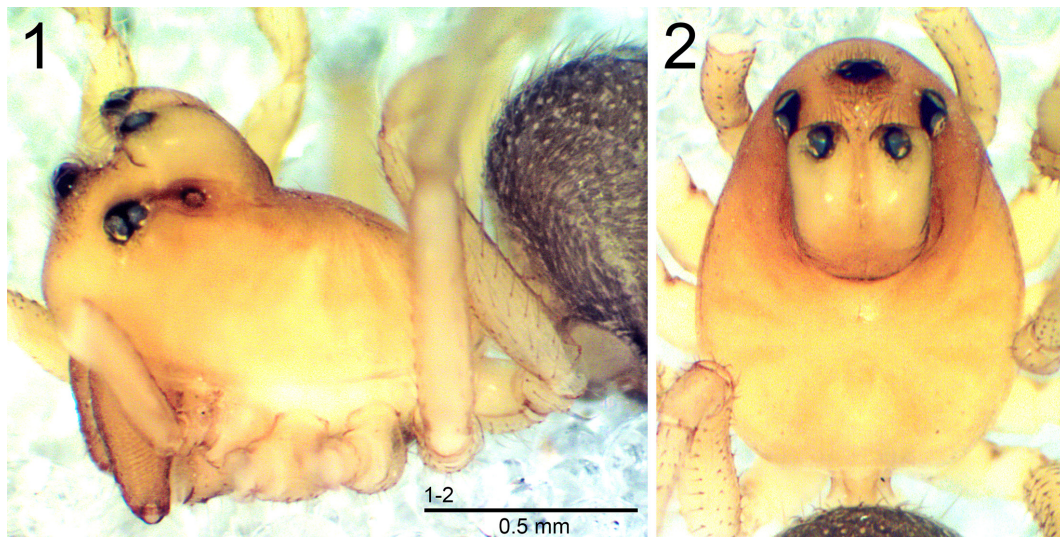
The following abbreviations are used in the text and figures: a.s.l. — above sea level; DSA — distal suprategular apophysis sensu Hormiga [2000]; E — embolus; R — radix; Pr — protegulum sensu Holm [1979]; TmI — position of trichobothrium on metatarsus I.

### Description

*Tapinocyba emei* sp.n.  
Figs 1–5.

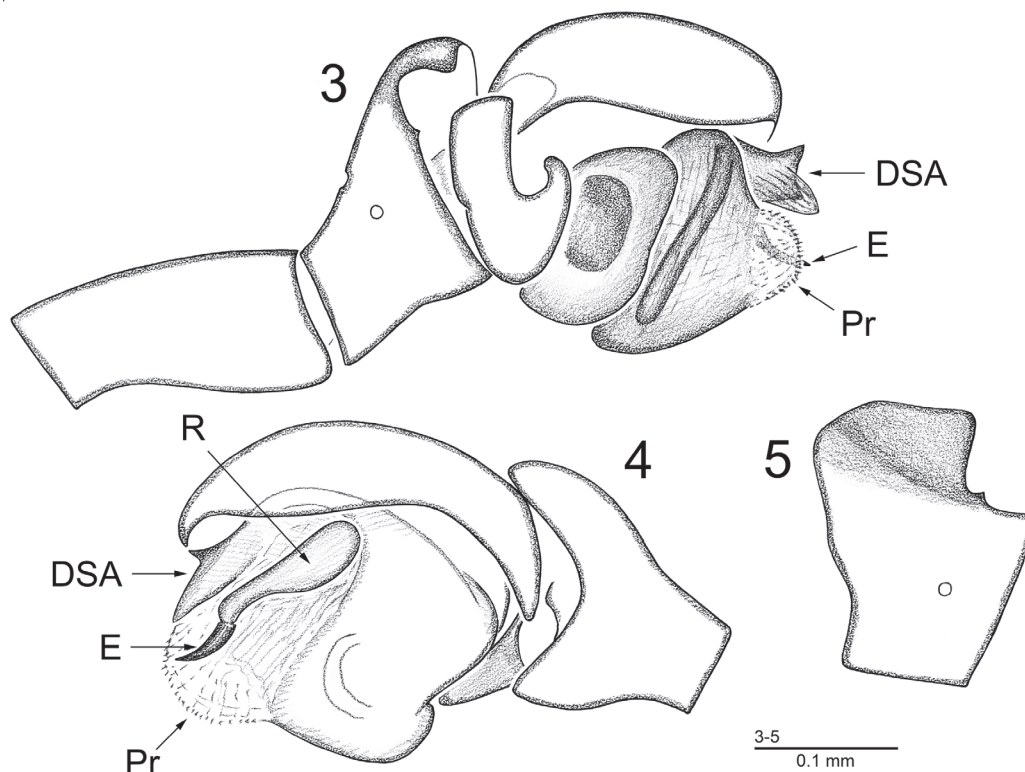
**HOLOTYPE** ♂ (SMF), CHINA, Sichuan Province, Emei, Mts Emei Shan, Wannian Temple, on clay slope, 1000 m a.s.l., 29°4.88'N 103°22.940'E, 20.III.1999, leg. P. Jäger.

**PARATYPES.** 2 ♂♂ (SMF), collected together with holotype; 1 ♂ (SMF), Wannian Temple, 29°4.88'N 103°22.940'E, 21–30.III.1999, leg. P. Jäger.



Figs 1, 2. Photographs of *Tapinocyba emei* sp.n., ♂ paratype. 1, 2 — body, anterolateral and dorsal view, respectively.

Рис. 1, 2. Фотография *Tapinocyba emei* sp.n., ♂ паратип. 1, 2 — тело, вид с боку и спереди, вид сверху, соответственно.



Figs 3–5. *Tapinocyba emei* sp.n., ♂ paratype. 3, 4 — right palp, retrolateral and prolateral view, respectively; 5 — palpal tibia, dorsal view.

Рис. 3–5. *Tapinocyba emei* sp.n., ♂ паратип. 3, 4 — правая пальпа, ретролатерально и пролатерально, соответственно; 5 — голень пальпы, вид сверху.

**NAME.** The specific name is a noun in apposition referring to the country of origin, the Mts Emei Shan, China.

**DIAGNOSIS.** The new species is most similar to the Taiwan *T. formosa*, but is clearly distinguished by

the elongated radix, claw-shaped embolus, as well as by the shape of the palpal tibia.

**DESCRIPTION.** Male holotype. Total length 2.12. Carapace modified as shown in Figs 1–2; 1.05 long, 0.75 wide, pale brown. Head part of carapace with a

bipartite elevation, each part carrying a posterior median eye. Sulci presence, eyes not enlarged, normal. Chelicerae 0.35 long, mastidion absent. Legs pale yellow. Leg I 2.53 long (0.75 + 0.25 + 0.63 + 0.50 + 0.40), IV long (0.75 + 0.25 + 0.65 + 0.53 + 0.40). Chaetotaxy 1.1.1.1, length of spines about 0.5–1 diameter of segment. Metatarsus I–III each with a trichobothrium. TmI 0.44. Palp (Figs 3–5): Patella elongated. Tibia with a notch on retrolateral side. Paracymbium U-shaped. Tegulum with a protegulum. Distal suprategular apophysis short, with a small, sharp denticle. Median membrane very small, poorly visible. Radix elongated, narrow. Embolus relatively short, claw-shaped. Abdomen 1.10 long, 0.80 wide, grey.

Female unknown.

**DISTRIBUTION.** Known only from the type locality in Mts Emei Shan, Sichuan, China.

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