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**A NEW SPECIES OF THE GENUS *BERLANDINA* (ARANEI:  
GNAPHOSIDAE) FROM KAZAKHSTAN**

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**Summary.** A new species, *Berlandina ilika* sp. n. is described based on males from southeastern Kazakhstan. The new species is similar to Mongolian *B. yakovlevi* Marusik, Fomichev et Omelko, 2014, but differs from it by thinner embolus without triangle lobe.

**Key words:** Araneae, Gnaphosinae, ground spiders, taxonomy, new species, Central Asia.

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**Резюме.** Из Юго-Восточного Казахстана по самцам описан новый вид пауков *Berlandina ilika* sp. n. Новый вид близок к *B. yakovlevi* Marusik, Fomichev et Omelko, 2014 из Монголии, но отличается от него тонким эмболюсом, лишенным треугольной лопасти.

**INTRODUCTION**

*Berlandina* Dalmas, 1922 is a large genus of Gnaphosinae with 38 described species from the Palaearctic and northern half of the Afrotropical realm (World Spider Catalog, 2018). Members of this genus widely distributed in the Palaearctic region from Iberian Peninsula to North China Plain (Song *et al.*, 2004; Nentwig *et al.*, 2018). Within the Eurasia the maximal species diversity is known from Central Asia, notably from Mongolia (10 species) (Marusik *et al.*, 2014; Fomichev & Marusik, 2017). Six species of *Berlandina* are reported from Kazakhstan (Mikhailov, 2013) and four more species are recorded in Kazakhstan by Logunov *et al.* (2012) in the popular book without indication of exact material and localities. *Berlandina* is one of the best studied Gnaphosidae genera in Central Asia owing to wide-scale revision (Marusik *et al.*, 2014). In latter paper all *Berlandina* species were assigned into six species groups: *caspica*, *nabozhenkoi*, *potanini*, *schnitnikovi*, *spasskyi* and *absunurica*. In Kazakhstan we collected males of undescribed species which belongs to *schnitnikovi*-group. The description of this species is given below.

Specimens were photographed with a Canon EOS 7D camera attached to an Olympus SZX16 stereomicroscope at the Zoological Museum, University of Turku, Finland. Digital

images were montaged using CombineZP and Helicon focus 3.10 image stacking software. Epigynes were cleared in a KOH/water solution until soft tissues were dissolved. Photographs were taken in dishes with white paraffin on the bottom to hold the specimens in correct position. Microphotograph was made with a Jeol JSM-5200 SEM in the Zoological Museum, University of Turku, Finland. All measurements are given in millimeters. Length of leg segments were measured on the dorsal side. Data about spination is based on examination of one specimen (one side of the body). The format of description and terminology follows Marusik *et al.* (2014). Abbreviations used as follows: d – dorsal, Fe – femur, Mt – metatarsus, p – prolateral, Pt – patella, r – retrolateral, Ta – tarsus, Ti – tibia, v – ventral. Types will be deposited at the Museum of the Institute of Systematic and Ecology of Animals (ISEA), Novosibirsk, Russia.

## DESCRIPTION OF NEW SPECIES

### *Berlandina ilika* Fomichev et Marusik, sp. n.

<http://zoobank.org/NomenclaturalActs/3664C29D-48E8-4D71-902F-AB7507D7AAE9>

Figs 1–5, 7, 9–11

TYPE MATERIAL. Holotype – ♂, **Kazakhstan**: Almaty Region, Ili River delta, 11 km SSE from Topar Village, Kosshar Natural Boundary, 44°56' N, 75°04' E, 360 m, sandy semidesert, at night, 23–24.IV 2016, leg. A.A. Fomichev (ISEA 001.8356). Paratypes: 3 ♂, the same label as holotype (ISEA 001.8357).

DIAGNOSIS. The new species is similar to Mongolian species *B. yakovlevi* Marusik, Fomichev et Omelko, 2014. It can be distinguished from the sibling species by thinner embolus (almost 5 times longer than wide in the new species vs. 3 times longer than wide in *B. yakovlevi*) without triangle lobe (triangle lobe is present in *B. yakovlevi*) (cf. Figs 5, 7 and 6, 8).

DESCRIPTION. MALE (holotype). Total length 8.8. Carapace: 4.0 long, 3.15 wide. Carapace yellow with gray stripes on the sides of cephalic part. Sternum and maxillae yellow. Chelicerae and labium light-brown. Legs and palps pale-yellow. Abdomen and spinnerets beige. Abdomen with gray cardiac mark and herringbone pattern dorsally (Fig. 9). Tibia–tarsi of legs I and II with long hairs.

Leg measurements:

	Fe	Pt	Ti	Mt	Ta	Total
I	3.7	1.65	2.65	2.6	1.7	12.3
II	3.5	1.6	2.45	2.75	1.7	12.0
III	3.5	1.6	2.15	3.55	1.85	12.65
IV	4.4	1.8	2.95	4.5	2.0	15.65

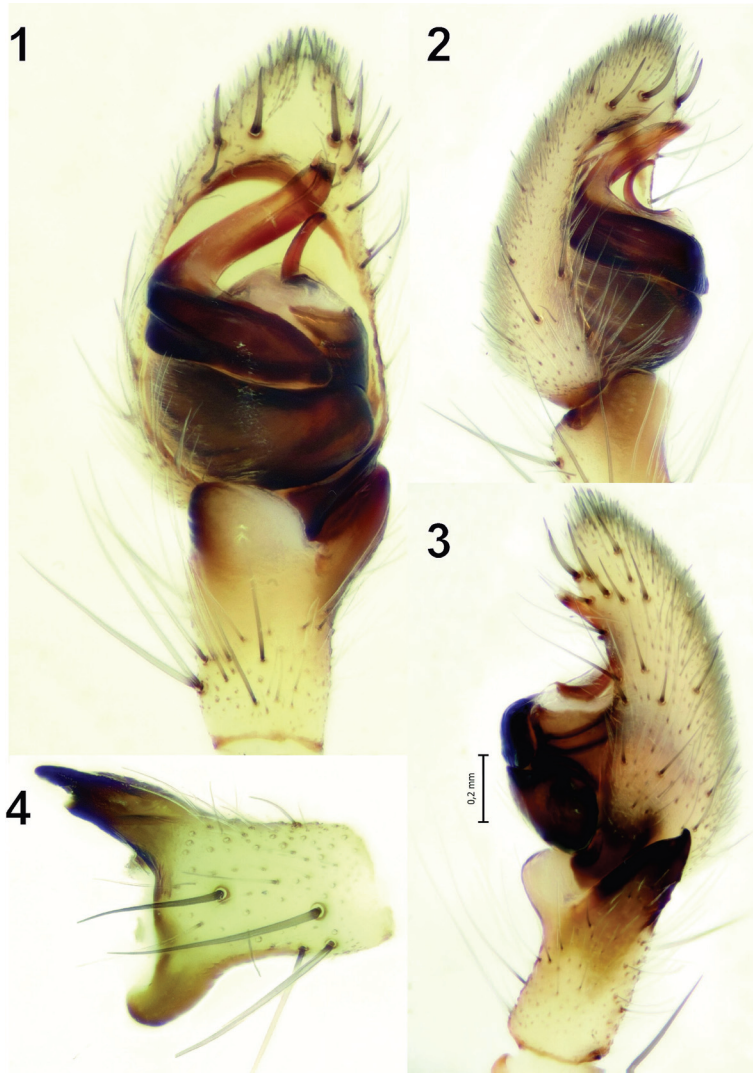
Leg spination:

	Fe	Pt	Ti	Mt
I	d1-1-1 p0-1-0	p1	p1-1-1 r1-0-1 v2-2-2	p1-0-1 r0-1-0 v4-5-2
II	d1-1-1 p0-1-1	p1	p2-1-1 r1-0-0 v1-1-2	d0-1-0 p1-1-1 r0-1-0 v2-2-2
III	d1-1-1 p0-1-1 r0-1-1	p1 r2	d1-0-0 p3-1-1 r1-1-1 v2-2-2	d1-2-0 p1-1-0 r1-1-0 v2-0-2
IV	d1-1-1 p0-1-1 r0-1-1	p1 r1	d1-0-0 p1-1-1 r1-1-1 v2-2-2	d1-2-0 p1-1-0 r1-1-0 v2-0-2

Palp as in Figs 1–4, 5, 7, 10, 11; tibia with well-developed ventral lobe and tibial apophysis with two branches. One branch (ventral) large, as long as tibia, and another (dorsal) very short, poorly pronounced and hidden by the ventral one; embolus slender, about 5 times longer than wide; tip of embolus with notch.

SIZE VARIATIONS. Total length varies from 7.4 to 8.8, carapace 3.7–4.1 long and 2.85–3.15 wide (n=4).

Female unknown.

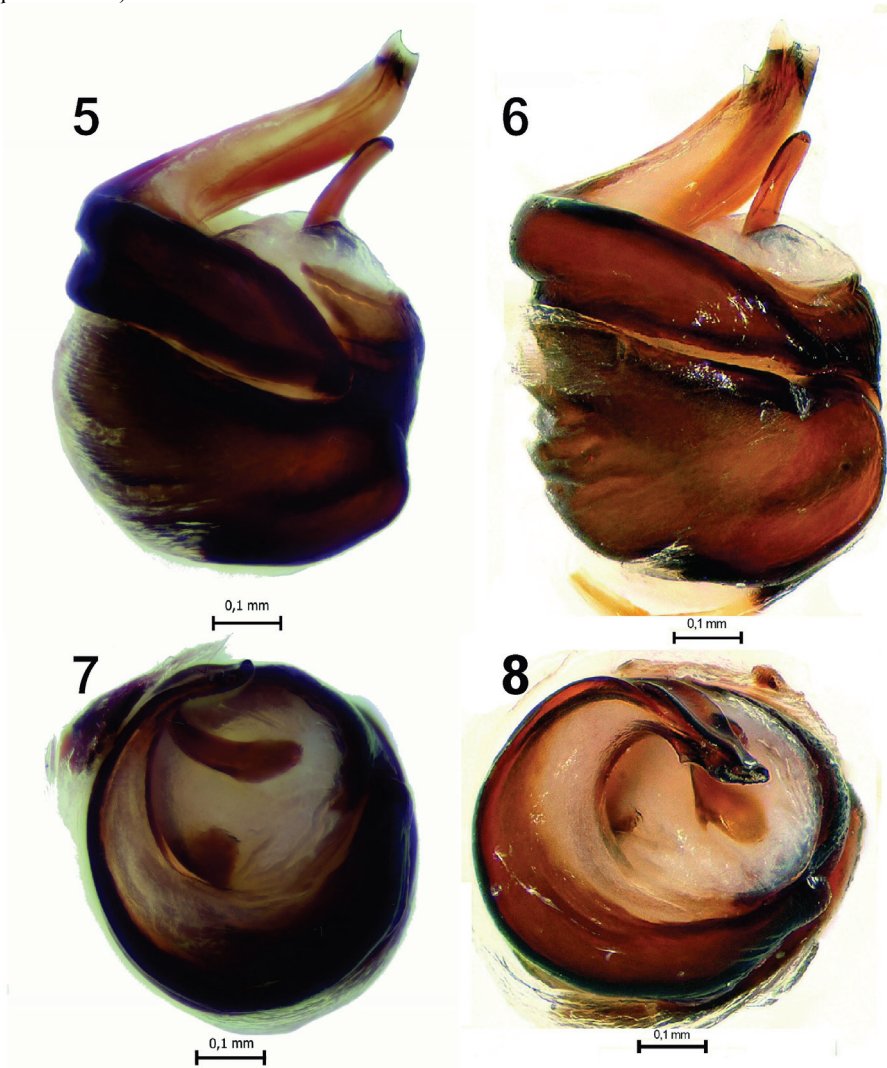


Figs 1–4. *Berlandina ilika* sp. n., male palp. 1 – ventral view; 2 – prolateral view; 3 – retrolateral view; 4 – tibia, dorsal view. Scale bar = 0.2 mm.

DISTRIBUTION. Known only from the type locality.

ETYMOLOGY. The specific name derived from Ili River, adjective.

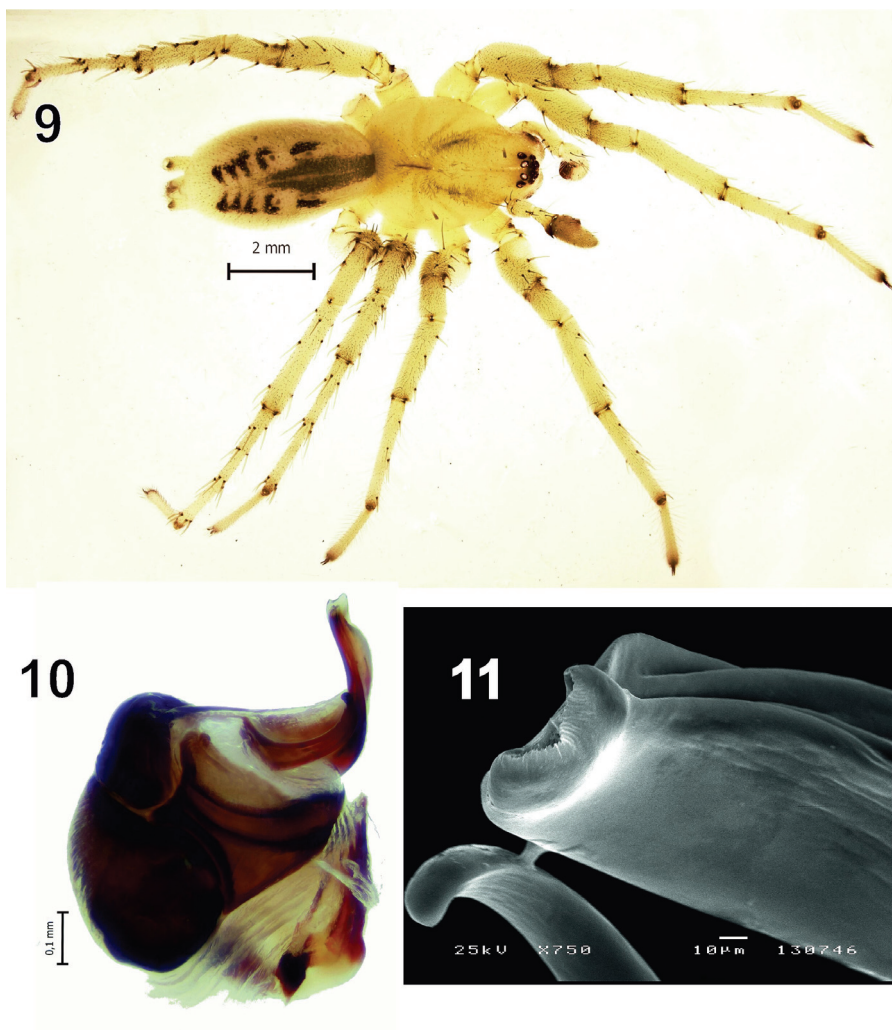
NOTES. *Berlandina shnitnikovi* (Spassky, 1934) known only from the original description which is very concise and provided with schematic figures. This species was described based on one male and one female from Balkhash Lake vicinity. Ili River, in the delta of which the type locality of *B. ilika* sp. n. is located, flows into Balkhash Lake. We had no opportunity to study the types of *B. shnitnikovi* since they are lost (D.A. Dubovikov and V.I. Ovtsharenko pers. comm.).



Figs 5–8. Bulb of *Berlandina* spp. 5, 7 – *B. ilika* sp. n.: 5 – ventral view; 7 – apical view; 6, 8 – *B. yakovlevi*: 6 – ventral view; 8 – apical view. Scale bars = 0.1 mm.

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Figs 9–11. *Berlandina ilika* sp. n., male. 9 – habitus, dorsal view; 10 – bulb, retrolateral view; 11 – the same, from above. Scale bars: 9 = 2 mm, 10 = 0.1 mm, 11 = 0.01 mm.

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