

Figs 5–13. *Neodiscopoma fabiani* sp. n.: (5–12) female, holotype: (5) intercoxal area; (6) tritosternum; (7) ventral view of gnathosoma and palps; (8) chelicerae; (9–12) legs I–IV, lateral view; (13) intercoxal area of male.

*Gnathosoma* (Fig. 7): Corniculi horn-like, internal malae marginally serrate and longer than corniculi. Hypostomal setae: *h1* long (ca 55  $\mu\text{m}$ ), smooth and setiform; *h2*, *h3* and *h4* short (ca 20–25  $\mu\text{m}$ ), marginally serrate. Epistome basally serrate and apically pilose. Chelicerae without internal sclerotized nodes, fixed digit with apical sensory organ and longer than movable digit, both digits bearing a single tooth (Fig. 8). Trochanter of palp with one short smooth seta (not illustrated in Fig. 7, because it was covered by corniculus) and one long basally serrate seta placed on small protuberance. Other setae of palp smooth and needle-like.

Legs (Figs 9–12): First leg without claws, needle-like setae present on all segments.

TABLE 1

Distinguishing characters of the African *Neodiscopoma* species (*N. franzi* and *N. fabiani*).

Characters	<i>N. franzi</i>	<i>N. fabiani</i>
Dorsal idiosoma		
Pilose setae	absent	present
Pygidial shield	absent	present
Oval pits in anterior area of dorsal shield	present	absent
Ventral idiosoma		
Sternal setae	all setae short	two pairs of them longer
Short setae on ventral shield	one pair	three pairs
Poststigmatid part of peritremes	absent	present

*Male.*

*Idiosoma*: Length 940–1020  $\mu\text{m}$ , width 650–670  $\mu\text{m}$  ( $n=10$ ). Shape, ornamentation and chaetotaxy of dorsal parts as in female. Sternal setae short (*ca* 5–8  $\mu\text{m}$ ) and needle-like, St1 situated at level of anterior margin of coxae II, St2 at level of posterior margin of coxae II, St3 at level of central area of coxae III, St4 near anterior margin of genital shield, St5 near posterior margin of genital shield. Sternal shield smooth, only some oval pits situated in central area, between St1 and St3. Genital shield oval and placed between coxae IV and bearing one pair of smooth and needle-like (*ca* 30  $\mu\text{m}$ ) *eg* (Fig. 13). Ventral setae and ornamentation similar to those of female.

Comparison: The new species differs from the other *Neodiscopoma* species in the presence of a pygidial shield. The differences between the two African species are summarized in Table 1.

Holotype: ♀ ETHIOPIA: 10 km S Ginchi city, 8°53'N 38°09'E, 2900 m, Cholomu forest, sample of mosses on trees, 15.xi.2009, L.B. Rybalov (HNHM).

Paratypes: 2♀ 10♂ same data as for holotype (1♀ 5♂ ISB, 1♀ 5♂ HNHM).

Genus *Trichouropoda* Berlese, 1916***Trichouropoda szabadi* sp. n.**

Figs 14–26

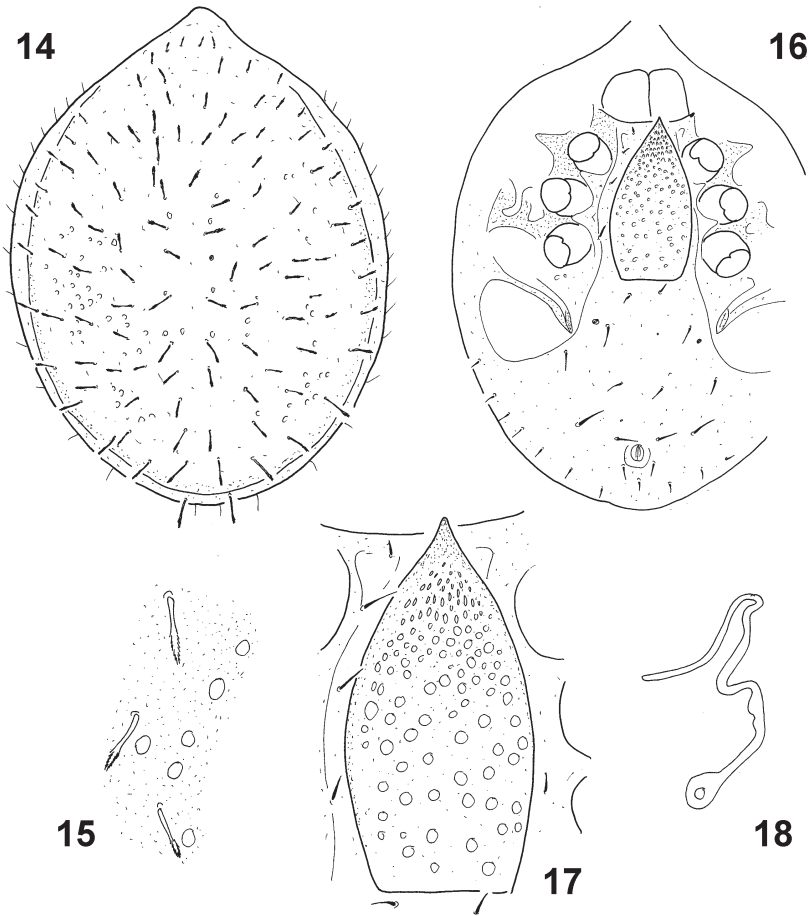
Etymology: We dedicate the new species to the memory of Dr Gábor Szabad, medical researcher in the Department of Dermatology and Allergology, Albert Szent-Györgyi Medical Center of the University of Szeged, who was shot by terrorists in January 2012 in the northern part of Ethiopia.

## Description:

*Female.*

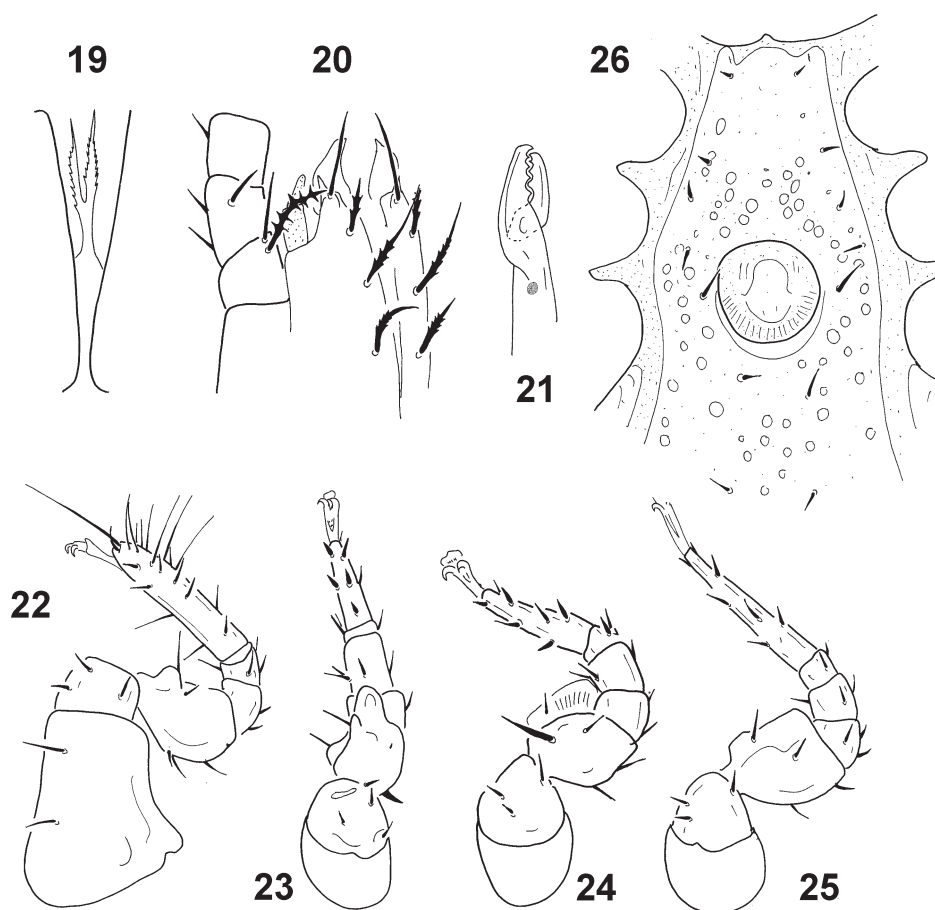
*Idiosoma*: length of 820–980  $\mu\text{m}$ , width 610–740  $\mu\text{m}$  ( $n=4$ ). Body shape oval, dorsal part domed, colour reddish brown.

Dorsal aspect (Fig. 14): Dorsal and marginal shields fused anteriorly, dorsal shield polytrichous, all dorsal setae short (*ca* 40–50  $\mu\text{m}$ ) and apically pilose. Surface of dorsal shield covered by oval pits (Fig. 15). Marginal shield complete, not reduced in caudal region, bearing smooth and needle-like setae (*ca* 20  $\mu\text{m}$ ), surface without sculpture.



Figs 14–18. *Trichouropoda szabadi* sp. n., female, holotype: (14) body, dorsal view; (15) dorsal setae and ornamentation; (16) body, ventral view; (17) intercoxal area; (18) peritreme.

Ventral aspect (Fig. 16): Surface of sternal shield smooth. Five pairs of smooth and needle-like sternal setae present, St1 (*ca* 8  $\mu\text{m}$ ) placed near anterior margin of sternal shield, St2 (*ca* 12  $\mu\text{m}$ ) at level of central area of coxae II, St3 (*ca* 12  $\mu\text{m}$ ) at level of posterior margins of coxae II, St4 (*ca* 20  $\mu\text{m}$ ) at level of central area of coxae IV, St5 (*ca* 15  $\mu\text{m}$ ) near basal edges of genital shield. Ventral shield bears four pairs of smooth and needle-like setae (*ca* 25–40  $\mu\text{m}$ ); *ad* and *pa* similar in shape to ventral setae, but shorter (*ad1 ca* 33  $\mu\text{m}$ , *ad2 ca* 23  $\mu\text{m}$  and *pa ca* 15  $\mu\text{m}$ ); several short (*ca* 15–20  $\mu\text{m}$ ) and needle-like setae situated near caudal margin of ventral shield. Anal opening oval and elevated from surface of ventral shield. Metapodal lines present. Pedofossae deep and their surface smooth, with separate furrows on tarsi IV. Surface of ventral shield smooth. Genital shield scutiform, anteriorly pointed, covered by oval pits basally and centrally, but anterior area with oblong elliptic pits (Fig. 17). Stigmata situated between coxae II and III, prestigmatid area long with two curves, poststigmatid part absent (Fig. 18). Tritosternum with narrow base, laciniae divided into two serrate branches (Fig. 19).



Figs 19–26. *Trichouropoda szabadi* sp. n.: (19–25) female, holotype: (19) tritosternum (lateral parts covered by coxae I); (20) ventral view of gnathosoma and palps; (21) chelicerae; (22–25) legs I–IV, leg I in ventral view, other legs in lateral view; (26) intercoxal area of male.

*Gnathosoma* (Fig. 20): Setae *h1* situated near anterior margin of gnathosoma on small protuberances, smooth and needle-like (*ca* 30  $\mu\text{m}$ ), *h2* short (*ca* 18  $\mu\text{m}$ ) and marginally serrate, *h3* long (*ca* 38  $\mu\text{m}$ ), basally serrate and apically smooth, *h4* long (*ca* 23  $\mu\text{m}$ ) and marginally serrate. Palp trochanter with one marginally serrate seta and one smooth and needle-like seta, other setae on palp smooth. Corniculi short and horn-like, laterally with one tooth, internal malae longer than corniculi, smooth and wide. Epistome marginally serrate. Chelicerae short and robust, movable digit as long as fixed digit, with three teeth, fixed digit with four teeth, internal sclerotized node present (Fig. 21).

Legs (Figs 22–25): All legs with ambulacral claws, all setae on legs smooth.

*Male*.

*Idiosoma*: Length of 850  $\mu\text{m}$ , width 750  $\mu\text{m}$  ( $n=1$ ). Shape and dorsal aspect as in female.

Ventral aspect (Fig. 26): Sternal shield covered by oval pits, six pairs of needle-like sternal setae present, St1–St4 and St6 short (*ca* 9–14  $\mu\text{m}$ ), St5 long (*ca* 21  $\mu\text{m}$ ). St1

placed near anterior margin of sternal shield, St2 at level of posterior margin of coxae II, St3 at level of anterior margin of coxae III, St4 at level of posterior margin of coxae III, St5 near lateral margin of genital shield, St6 near caudal margin of genital shield. One pair of lyriform fissures situated near St1. Genital shield circular, without sculptured pattern and *eg*, situated between coxae IV.

*Gnathosoma*: As in female.

Comparison: The new species belongs to the *Trichouropoda ovalis* group (Hirschmann & Wiśniewski 1986). A common character within this group is the presence of oval pits on the surface of the body. The new species can be easily separated from the other species of this group on the basis of the anterior ornamentation on the female genital shield, the smooth ventral shield and the number of sternal setae on the male, which is six pairs in the new species and five pairs in the previously described ones. This character combination is not found in other species in this species group.

Holotype: ♀ ETHIOPIA: 10 km S Ginchi city, 8°53'N 38°09'E, 2900 m, Cholomu forest, sample of mosses on trees, 15.xi.2009, leg. L.B. Rybalov (HNHM).

Paratypes: 3♀ 1♂ same data as for holotype (2♀ 1♂ HNHM).

#### ACKNOWLEDGEMENTS

We would like to thank Dr S. Ermilov (Nizhniy Novgorod, Russia), renowned oribatologist, for sending material from Ethiopia. Dr Hans Klompen (Columbus, OH, USA) and an anonymous reviewer are acknowledged for their comments on the manuscript. The study was supported by the Academy of Sciences of the Czech Republic, Research Plan No. AVOZ60660521.

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