Two New Clubiona Spiders (Araneae: Clubionidae) from Japan

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小野展嗣：日本産フクログモ属（クモ目：フクログモ科）の2新種

Abstract Two new species of the spider genus Clubiona LATREILLE, 1804, are described from Kanagawa Prefecture, Honshu, Japan, under the names C. ikedai and C. kumadaorum. The former new species belongs to the species-group of Clubiona ohesa (subgroup of C. akagiensis) and resembles C. chikunii. The latter seems to be a member of the species-group of C. pallidula (subgroup of C. propinquia) and closely related to C. maya.

Up to the present, about 50 species of spiders of the genus Clubiona LATREILLE, 1804, classified into 14 species-groups were recorded from Japan (presented by the author at the annual meeting of the Arachnological Society of Japan, 1992). However, many unrecorded species including several new ones were left for further, taxonomical studies. In the spider collections provided for the author’s study by some Japanese arachnologists, many interesting spiders of the family Clubionidae have been prepared for publications. Of these, two new species of the genus Clubiona collected from Kanagawa Prefecture will be reported in the present paper.

All the type specimens of the new species described in this paper are deposited in the collection of the National Science Museum (Natural History), Tokyo.

The following abbreviations are used: ALE, anterior lateral eye, AME, anterior median eye, PLE, posterior lateral eye, PME, posterior median eye.

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Genus *Clubiona* LATREILLE, 1804

*Clubiona ikedai* sp. nov.

(Figs. 1-4)


Other specimens examined. 1♀1♂, Amagi-toge, between Tagata-gun and Kamo-gun, Shizuoka Prefecture, Japan, 8-V-1985, K. KUMADA leg. (NSMT-Ar 2956).

Description (based on the holotype and allotype). Measurement. Body length ♀ 7.22 mm, ♂ 5.85 mm; prosoma length ♀ 3.37 mm, ♂ 2.48 mm, width ♀ 2.30 mm, ♂ 1.74 mm; opisthosoma length ♀ 3.70 mm, ♂ 3.22 mm, width ♀ 2.44 mm, ♂ 1.63 mm; lengths of legs I-IV (in mm) [total (tarsus + metatarsus + tibia + patella + femur)]: I 7.48 (0.81 + 1.33 + 1.93 + 1.19 + 2.22), II 7.78 (0.81 + 1.41 + 2.00 + 1.19 + 2.37), III 6.89 (0.63 + 1.81 + 1.41 + 1.04 + 2.00), IV 10.01 (0.78 + 2.89 + 2.26 + 1.19 + 2.89), ♂ I 7.15 (0.74 + 1.41 + 1.93 + 1.00 + 2.07), II 7.19 (0.74 + 1.37 + 1.89 + 1.04 + 2.15), III 6.45 (0.63 + 1.67 + 1.41 + 0.89 + 1.85), IV 8.92 (0.70 + 2.67 + 2.15 + 0.96 + 2.44).

Prosoma. Eyes: ALE/AME ♀ 1.40, ♂ 1.10, PLE/PME ♀ 1.00, AME/AME/AME-ALE ♀♀ 1.00, PME-PME/PM-PLE ♀ 1.25, ♂ 1.29. Chelicera normal in both the sexes, with five small and two large teeth on promargin of fang furrow and five teeth on retromargin. ♀ Tibia I with 2–2–0 ventral spines, metatarsus I with 1–0 (♀) or 2–0–0 (♂) ventral spines.

Male palp (Figs. 1-2). Tibia with strong spines; retrolateral apophysis large, sclerotized and expanded. Tarsus with large bulb; tegular apophysis developed, embolus spiniform and short, conductor developed and sporigly expanded.

Female genitalia (Figs. 3-4). Intromittent orifices small, situated in the middle part of epigynum. Intromittent canal narrow, long and curved; atrium digitiform and curved; spermatheca small and globular, with a large gland.


Variation. Body length ♀ 6.59–7.22 mm, ♂ 5.78–5.85 mm. The body of the ♀ paratype greys.
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than that of *C. chikunii*, and the intromittent orifices of epigynum are situated in the middle part of epigynum in *C. ikedai*, while those of *C. chikunii* are in the posterior part. Both the orifices of *C. ikedai* are widely separated from each other. The specific name of this new species is dedicated to Mr. Hiroyoshi IKEDA, Kanagawa Prefectural Youth Center, Yokohama.

*Clubiona kumadaorum* sp. nov.

*(Figs. 5–6)*

*Type specimen.* Holotype: ♂, Nakagawa, Yamakita-machi, Ashigarashimo-gun, Kanagawa Prefecture, Japan, 19–X–1978, Ken-ichi KUMADA leg. (NSMT–Ar 2957).

*Description* (based on the ♂ holotype; ♀ unknown). Measurement. Body length 5.48 mm; prosoma length 2.56 mm, width 1.85 mm; opisthosoma length 3.04 mm, width 1.59 mm; lengths of legs (in mm) [total (tarsus + metatarsus + tibia + patella + femur)]: I 7.92 (0.89 + 1.58 + 2.15 + 1.00 + 2.30), II 8.19 (0.93 + 1.56 + 2.22 + 1.11 + 2.37), III 6.85 (0.63 + 1.78 + 1.59 + 0.89 + 1.96), IV 9.47 (0.81 + 2.81 + 2.26 + 1.00 + 2.59).

Prosoma. Eyes: ALE/AME 1.05, PLE/PME 1.18, AME–AME/AME–
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ALE 1.42, PME–PME/PME–PLE 1.62. Chelicera normal, with four small and two large teeth on promargin of fang furrow and one small and two large teeth on retromargin. Tibia I with 2–2 ventral spines; metatarsus I with 2–0–0 ventral spines; tibia, metatarsus and tarsus of leg I with scopula.

Male palp (Figs. 5–6). Tibia with many long spines; retrolateral apophysis with two processes, dorsal process short and strongly sclerotized, ventral one a transparent membranous leaflet, long and digitiform. Tegular apophysis very wide and sclerotized; conductor short and not developed; embolus short, thick and distally flexuous.

Coloration and markings. Prosoma dark yellow, chelicerae, maxillae and labium darker, sternum, legs and palps yellow; opisthosoma light beige without any marking.

Remarks. Clubiona kumadaorum belongs to the species-group represented by C. pallidula (CLERCK, 1758) [subgroup of C. propinqua L. KOCH, 1879 designated by MIKHAILOV (1991)]. It seems to be closely related to C. maya HAYASHI et YOSHIDA, 1991, described from Mt. Maya-san, Yamagata Prefecture, Japan, but can be distinguished from the latter by the structure of male palp. The dorsal process of the retrolateral tibial apophysis of C. maya is very short,

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Figs. 5–6. Clubiona kumadaorum ONo, sp. nov.—5, Male palp, ventral view; 6, same, retrolateral view. (Scale: 0.1 mm.)
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and the tegular apophysis of *C. kumadaorum* is much wider than that of *C. maya*.

The specific name of this new species is dedicated to Mr. and Mrs. Ken-ichi
and Rie KUMADA, Yokohama.

摘　要

神奈川県産の *Clubiona*（フクログモ属）の2新種、*C. ikedai*（ハコネフクログモ新
称—）および *C. kumadaorum*（クマダフクログモ新称—）を記載した。前者は *C.
obesa* 種群（細分では *C. akagiensis* 種群）に属し、*C. chikunii* HAYASHI, 1986（チク
ニフクログモ）に類似する。一方、後者は *C. pallidula* 種群（細分では *C. propinquaa*
種群）のもので、*C. maya* HAYASHI et YOSHIDA, 1991（マヤフクログモ）と近縁の種
と思われる。

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