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Б.М. Мамасев, А.И. Зайцев

**НОВЫЙ РОД ГАЛЛИЦ**  
*Yukawamyia Mamaev et Zaitzev, gen. n.*  
(Diptera, Cecidomyiidae).

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В работе приводится описание ранее неизвестного науке рода галлиц в сравнении с другими представителями этой таксономической группы; новые материалы позволяют более надежно идентифицировать галлиц, отлавливаемых ловушками при изучении биоразнообразия лесных экосистем и при аналогичных исследованиях.

Предназначена для диптерологов - систематиков и экологов, изучающих проблемы биоразнообразия.

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New genus of gall midges *Yukawamyia* Mamaev et Zaitzev, gen.n.  
(Diptera, Cecidomyiidae).

Boris M. Mamaev (1), Alexander I. Zaitzev (2)

1 - All-Russian Institute of Continuous Education in Forestry. 141200, Pushkino, Moscow Region, Russia (ARICEF).

2 - A.N.Severtzov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow, 117071, Leninsky prosp. 33, Russia.

New genus belongs to the tribe Micromyiini s.l. of the subfamily Lestremiinae. Important revisions of this tribe had been published by F.W.Edwards (1938), A.E.Pritchard (1947) and B.M.Mamaev (1983). J.Yukawa (1971) had revised gall midges of Japanese fauna including the tribe Micromyiini in his excellent monograph. The new genus is named in honour of Professor J.Yukawa (Kagoshima University, Japan).

*Yukawamyia* Mamaev et Zaitzev gen.n.

Type species - *Yukawamyia gratia* sp.n.

Head round, eye bridge narrow, ocelli 3, mouth parts very short, palpi 3-segmented, occipital surface densely covered with hairs and narrow scales. Antennae of male with 2+12 segments. Scape and pedicel subglobular, both with hairs and scales, middle flagellar segments with irregular basal whorl of short bristles in 2-3 rows, 1-2 complete and 3-4 incomplete cranulate whorls of

long hairs in middle part, with numerous short sensorial hairs distally; terminal segment elongated, tapering apically with acute appendage. Antennae of female with variable number of segments. Middle flagellar segments with round basal enlargement and long neck. Enlargement basally with regular whorl of long stout bristles, whorl of bristle-shaped transparent sensoriae and sensorial spinulae distally; terminal segment with acute apex.

Thorax densely covered with short hairs dorsally. Wing broad with typical wing venation, densely covered with macro- and microtrichiae. Costa extends well beyond the tip of R5. Sc invisible, R5 ends at the tip of wing, R1 meets C nearly the half distance from the base of wing to the apex; Rs forming a distinct angle with R5; M1+2 visible only at the basal part; M3+4 connected with Cu and forming a fork. Legs with hairs and scales densely; claws sharply bent in basal third, with minute denticulation in female, empodium null.

Tergites and sternites of abdominal segments well sclerotized. Male genitalia with long coxites, short styles without claw, large 9th tergite, conical aedeagus without genital rod, very thick sclerotized roots. Ovipositor short, conical, with long 3-segmented lamellae. Sclerotized spermatheca 1.

Genus *Yukawamyia* is similar to *Aprionus* Kieffer, 1894, because male genitalia without genital rod, empodium null and female with one spermatheca. New genus is distinguished according to numerous bristle-shaped antennal sensoriae and very peculiar morphology of short ovipositor. All other related genera (*Aprionus* Kieff., *Bryomyia* Kieff., *Heterogenella* Mam., *Skuhraviana* Mam. etc.) with

thick transparent antennal sensoriae and telescopic ovipositor.

*Yukawamyia gratia* Mamaev et Zaitzev sp.n.  
(figs. 1-4)

Holotype. Male, in slide, Russia, Kuril Is., Kunashir I., Mendeleevo, larvae in decayed wood of *Ulmus*, 17.IV.1977, A. Zaitzev leg. (deposited in B.M. Mamaev collection); paratypes: 4 males, 8 females, in slides, the same series, breeding adults (deposited in B.M. Mamaev and A.I. Zaitzev collections).

Male. Length of body 1.8 mm. Thorax and abdomen brown. Antennae slightly shorter than wing. Wing 2 times as long as broad. Palpi with very long 3d segments. Coxites long and slender, with deep incision between them; style 1/4 as long as coxite, with triangular membranous field in the middle; aedeagus unsclerotized with acute apex; roots of coxites arch-shaped.

Female. Length of body 2.1 mm. Antennae with 2+17 or 2+18 segments. Ovipositor with very long 2nd segment, the 3d segment 1/6 times as long as the 2nd, ventral plate bilobed; sclerotized spermatheca round.

#### Bibliography.

Edwards, F.W. 1938. On the British Lestremiinae, with notes on exotic species 1-7. (Diptera, Cecidomyiidae). Proc. R. ent.

Soc. Lond.(B), 7: 18-24, 25-32, 102-108, 173-182, 199-210, 229-243, 253-265.

Mamaev, B.M. 1963. Gall midges of the USSR. 2. The tribe Micromyiini (Diptera, Itonididae). Ent. Obozr., 42 : 438-454. (In Russian, with English summary).

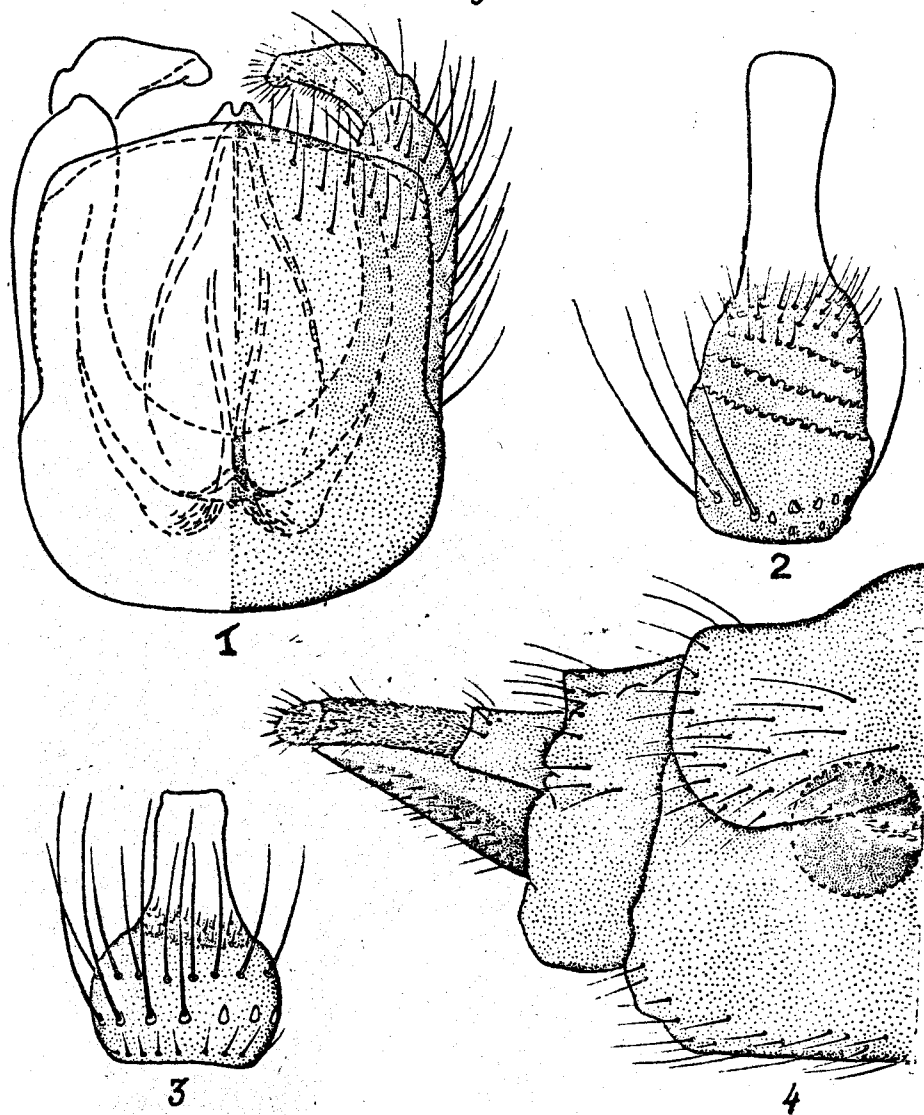
Pritchard, A.E. 1947. The North American gall midges of the tribe Micromyiini; Itonididae (Cecidomyiidae), Diptera. Entomologica Amer., 27: 1-87.

Yukawa, J. 1971. A revision of the Japanese gall midges (Diptera, Cecidomyiidae). Mem. Fac. Agric. Kagoshima Univ., 8: 1-203.

Explanation to drawings:

Figs. 1-4. *Yukawamyia gratia* gen. et sp. n.

1 - male genitalia, 2 - 6th flagellar segment of male; 3 - 6th flagellar segment of female; 4 - ovipositor.



Мамаев Борис Михайлович  
Зайцев Александр Иванович

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