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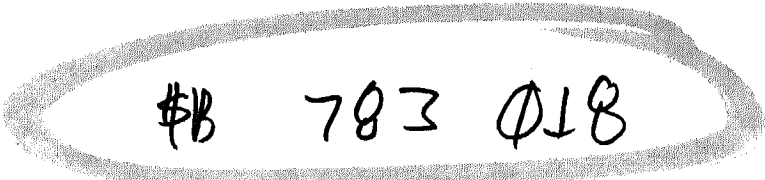
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NOTULAE NATURAE

NUMBER 175

OF

MAY 10, 1946

THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

THE GENUS MONOCLONA MIK (DIPTERA: MYCETOPHILIDAE)

BY ELIZABETH G. FISHER

Research Associate, The Academy of Natural Sciences of Philadelphia

The genera *Monoclona* Mik and *Acnemia* Winnertz were placed by F. W. Edwards¹ in the tribe *Sciophilini* and separated from the rest of the tribe by the unbranched cubitus and the bare anepisternites. *Monoclona* usually has the short vein R_4 present. The macrotrichia of the wing membrane are reflexed (pointing towards the base of the wing). In *Acnemia* R_4 is absent and the macrotrichia are decumbent (pointing towards the apex of the wing).

The Academy wishes to express its obligation to Dr. A. L. Melander for his kindness in presenting to our collections the types of the two new species here described.

Key to Nearctic species of *Monoclona*

(Garrett's species *M. simplex* is not included.)

1. Base of M_2 absent; male terminalium as in figure 5.....*floridensis* new species
Base of M_2 present.....2
2. The distance from the apex of vein Sc_1 to the apex of vein R_1 is twice the distance from the apex of vein R_1 to apex of vein R_53
The distance from the apex of vein Sc_1 to the apex of vein R_1 is two and one half times the distance from the apex of vein R_1 to the apex of vein R_5 ; male terminalium as in figure 1.*furcata* Joh.
3. Style of male terminalium forked distally as in figure 3.*elegantula* Joh.
Style of male terminalium tapers distally to a single point as in figure 4.*idahoensis* new species.

Monoclona idahoensis new species

Figure 4.

This species differs from other species known to me as indicated in the key above. It apparently differs from Garrett's *M. simplex* in the length of vein Sc and in the structure of the male terminalium.

¹ Trans. Ent. Soc. London, 1924, pp. 556, 564, 565, 1925.

Male; length 4 mm. Head dark brown, palpi, scape of antenna and basal joint of flagellum yellow, face and remaining flagellar joints fuscous. Thorax yellow, mesonotum with three fuscous stripes; anepisternites infuscated. Pleurotergites and postnotum setose. Hairs yellow. Wings yellowish hyaline, both macro- and microtrichia present. Veins yellow, setose. Cell R_1 almost square. (Vein R_4 represented by a spur in one wing of a paratype.) C extends beyond the tip of R_8 , not reaching the wing apex; Sc long, ending beyond the level of vein R_4 , M_2 complete. The distance from Sc_1 to R_1 is twice the distance from R_1 to R_8 . Stem of halteres yellow; knob black. Legs yellow; tarsi brownish; setae black. Abdomen dark brown, apices of segments narrowly yellow. Male terminalium dark brown except the ninth tergite which is yellow. The caudal border of the ninth tergite has a row of alternating strong and weaker setae.

Holotype.—♂, Moscow Mt., Latch Co., Idaho, July 7 (A. L. Melander), A.N.S.P. No. 6671.

Paratype.—1 ♀; Chatcolet, Benewah Co., Idaho, August (A. L. Melander), A.L.M. Collection.

***Monoclona floridensis* new species**

Figure 5.

This species lacks vein R_4 in both wings; the macrotrichia are reflexed. The male terminalium are of the typical *Monoclona* form.

It differs from other Nearctic species in lacking the base of M_2 , in having two rather than three ocelli, and in the entirely yellow thorax as well as in terminalial structure.

Male. Total length 3 mm. Head dark brown, black around the two ocelli which are closely approximated and widely remote from the eye margins. Scape, basal joint of the flagellum and the palpi yellow. Setae brown. Thorax entirely yellow. Pleurotergites and postnotum setose. Mesonotum without stripes, uniformly setose, the setae yellow. Wings hyaline, both macro- and microtrichia present; the macrotrichia evenly distributed over the entire wing membrane. C extends $\frac{1}{4}$ the distance from R_8 to M_1 but does not reach the wing tip; Sc long, ending about the length of r-m beyond the level of R_8 ; Sc_2 well proximad of the origin of R_8 ; R_4 absent in both wings; M_2 incomplete at its base for a distance almost equal to the length of r-m but still traceable; Cu unbranched. Halteres black. Legs yellow; spurs 1-2-2. Abdominal segments one to three black with narrow posterior margins; the fourth and beyond yellow. Male terminalium as in Figure 5. Ninth tergal border with a strong seta at each angle.

Holotype.—♂; Orlando, Orange Co., Florida, April 26, 1930 (A. L. Melander Collector), A.N.S.P. type No. 6672.

***Monoclona furcata* Johannsen**

Figure 1.

Monoclona furcata Johannsen, Maine Agr. Exp. Sta. Bull., no. 180, p. 187, 1910. Sherman, Proc. Ent. Soc. Brit. Col., 1919, p. 11. Johnson, Occas. Papers Boston Soc. Nat. Hist., VII, p. 78, 1925.

MAINE: Orono, Penobscot Co., May 26, (O. A. Johannsen) [Johannsen, 1910; Johnson, 1925],² 1 ♂, *Type*, O.A.J.

*BRITISH COLUMBIA: ³ [Sherman, 1919].

Monoclona simplex Garrett

Monoclonna [sic] *simplex*, Garrett, Sixty-one New Diptera, Cranbrook, B. C. p. 9, 1925.

*BRITISH COLUMBIA: Caulfields, May, (C. B. D. Garrett), [C. B. D. Garrett, 1925] 1 ♂, *type*, 5 ♂ paratypes, C.B.D.G.

I do not know this species.

Monoclona elegantula Johannsen

Figures 2 and 3.

Monoclona elegantula Johannsen, Maine Agr. Exp. Sta. Bull., no. 180, pp. 128, 129, figs. 84, 107, 1910.—Johnson, Occas. Papers Boston Soc. Nat. Hist., VII, p. 78, 1925. Brimley, The Insects of North Carolina, N. C. Dept. Agr., Div. Ent., Raleigh, N. C., p. 326, 1938.—Sherman, Proc. Ent. Soc. Brit. Col., 1919, p. 11.

NOVA SCOTIA: Cape Breton Island, Sept. (E. G. Fisher) A.N.S.P.

QUEBEC: Ste Anne de la Perade, Champlain Co., Aug. 6, (A. L. Melander), 1 ♂, A.L.M.

*MAINE: Mt. Desert, Hancock Co., Aug. 10 [Johnson, 1925].

MASSACHUSETTS: Petersham, Worcester Co., July (A. L. Melander), 1 ♂, A.L.M.

NEW YORK: Ithaca, Thompsons Co., August, [Johannsen, 1910; Leonard, 1926]; *type* ♂, *allotype* ♀, paratypes, O.A.J. Fish Creek, Franklin Co., August 2 (A. L. Melander) 1 ♂, A.L.M. Bear Mt., Rockland Co., Sept 19, (A. L. Melander), 1 ♀, A.L.M. Erie Co., June-Sept. (M. C. Van Duzee), [Leonard, 1926].

PENNSYLVANIA: Dubois, Clearfield Co., Sept 3 (A. L. Melander), 2 ♂, 2 ♀, A.L.M. and A.N.S.P.

NORTH CAROLINA: Hendersonville, Henderson Co., June [Brimley, 1938], 1 ♂, N. C. Dept. Agr.

*BRITISH COLUMBIA: [Sherman, 1919].

In addition to the above species Sherman, 1919 records "*Monoclona* new species" from British Columbia.

² In the distribution records, the collector's name, when known, is placed in parenthesis, the authority of a published record and the date of publication in square brackets.

³ An asterisk indicates that I have not seen the specimen on which the record is based. The location of the specimen in various collections is indicated by initials.

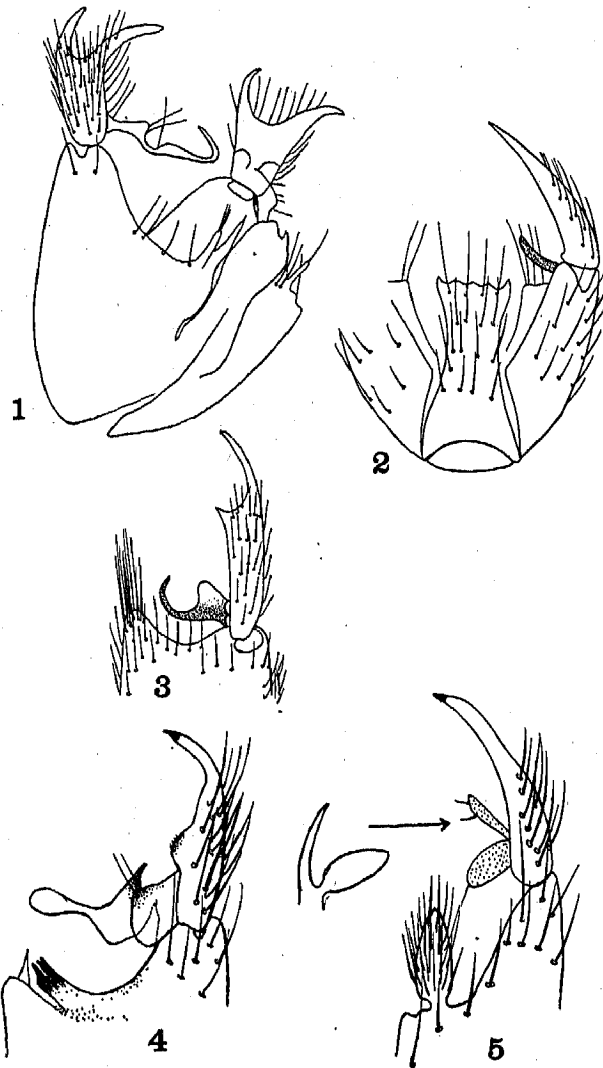


Fig. 1. *Monoclona furcata* Johannsen. Dorso-lateral aspect of male terminalium drawn from type slide. Fig. 2. *Monoclona elegantula* Johannsen. Dorsal aspect of male terminalium, type. Fig. 3. *Monoclona elegantula* Johannsen. Lateral aspect of male terminalium, dorsum to the right, type. Fig. 4. *Monoclona idahoensis* new species. Lateral aspect of male terminalium, dorsum to the right, type. Fig. 5. *Monoclona floridensis* new species. Lateral aspect of male terminalium, dorsum to the right, type.