

DIAGNOSES
OF
NEW MEXICAN MUSCIDAE,

BY
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A short time after the first parts of my work on the Central-American Muscidae (*Biologia Centrali Americana*, Diptera, vol. II) were published, I received from the Editors other Mexican collections containing many new species and even some new genera belonging to the groups already treated of. In due time these new collections will be fully described in a supplementary part of the above mentioned work, but in meanwhile the Editors have kindly allowed me to print short diagnoses of the new genera and species in the «Tijdschrift voor Entomologie».

PHASINAE.

Trichopoda nitidiventris n. sp. ♂. — Black; face silvery-white; transverse suture of the thorax and indistinct lines before it, whitish; abdomen shining, with the anus rufous; legs black, fringes of the hind tibiae black with yellow tips; tegulae dark brown; wings black, their hind border and tip broadly whitish. — Length 10 mm.

Trichopoda alipes n. sp. ♂. — Black; face with white reflections; humeral spots and two thoracic lines white; legs black, base of the middle and hind femora rufous; fringes of the hind tibiae black; wings black, with the tip and hind border broadly hyaline and the end of the costa yellowish — Length 7,5 mm.

Trichopoda squamipes n. sp. ♂. — Face silvery-white; thorax black with yellow humeral spots and two yellow stripes; scutellum and abdomen yellowish-rufous; legs rufous, tibiae brown towards the tip; fringes of the hind tibiae black; wings black with the hind margin subhyaline. — Length 8 mm.

Trichopoda nigripes n. sp. ♂ ♀. — Black; face and lateral borders of the front greyish-white; thorax anteriorly with yellow tomentum and black stripes; abdomen rufous with black tip; legs black, sometimes the base of the hind tibiae rufous; tegulae yellowish; wings brown or black, with the hind border subhyaline. — Length 6 mm.

HOMOGENIA n. gen. — Characters of *Trichopoda*, but the apical cell of the wings open; the black fringe on the outer side of the hind tibiae short and less striking; the dark coloration of the wings not sharply separated from the hind border, or the wings broad and yellowish, with brown spots or shadows.

Homogenia rufipes n. sp. ♂. — Reddish-yellow; frontal band four stripes on the thorax, metanotum, a dorsal abdominal stripe, the anal segment, and the fringe of the hind tibiae, black; third antennal joint apical part of the femora and tibiae, and the whole tarsi dark brown; wings on the costal half brown. — Length 8 mm.

Homogenia latipennis n. sp. ♂ ♀. — Yellowish-rufous; frontal band, four stripes on the thorax, third antennal joint, a dorsal stripe on the abdomen, the tips of femora and tibiae, the fringe of the hind tibiae, and finally the tarsi, black; wings broad, brownish with dark shadows along the veins; the base and costa yellow. — Length 11 mm.

Homogenia nigroscutellata n. sp. ♂. — Similar to the preceding species, but of a smaller size and with the scutellum

blackish; the black dorsal stripe of the abdomen sometimes very broad, the yellow colour being reduced to lateral borders. — Length 7—9 mm.

Hyalomyia munda n. sp. ♂. — The whole body thickly covered by a yellowish-grey tomentum; front broader than the eyes; frontal band, four stripes on the thorax, antennae, and legs, black; wings yellowish, the costa somewhat infuscated, the veins yellow. — Length 5,25 mm.

Hyalomyia villosa n. sp. ♂. — Cinereous; front broader than the eyes; antennae, four stripes on the thorax, and abdomen black; legs piceous; sides of the abdomen and underside of the hind femora densely with yellowish pilosity; wings yellowish, slightly infuscated towards the tip, veins yellow. — Length 7 mm.

Hyalomyia hebes n. sp. ♂. — Yellowish-grey; front broader than the eyes; frontal band, antennae, four stripes on the thorax, abdomen, and legs, black; sides and apex of the abdomen with short yellowish hairs; wings greyish, their base, costa and tip infuscated; the veins blackish. — Length 5 mm.

Hyalomyia ochriceps n. sp. ♂. — Black; front ochraceous, as broad as the eyes; abdomen with metallic reflections; wings hyaline, infuscated at the base. — Length 5 mm.

Hyalomyia argenteiceps n. sp. ♂. — Head silvery-white; front as broad as the eyes; thorax grey with four black stripes; abdomen shining black with metallic reflections; legs black; wings greyish, slightly infuscated at the base and along the costa. — 6 mm.

Hyalomyia nigrens n. sp. ♀. — Front trigonal, posteriorly with the eyes nearly coalescent; face prominent towards the oral margin; thorax cinereous with black stripes; abdomen black, the last three segments cinereous with the hind margins and a dorsal stripe black; legs black; wings greyish. — Length 5 mm.

Hyalomyia piceipes n. sp. ♀ — Front black, trigonal, the eyes a little separated on the vertex; face white, not prominent; thorax obscure cinereous; antennae, thoracic stripes, and scutellum, black; abdomen shining bluish-black; legs brownish; wings hyaline. — Length 6,5 mm.

Hyalomyia moerens n. sp. ♀. — Front black, trigonal, separating the eyes on the vertex; antennae, thorax, scutellum, and legs, black; abdomen shining metallic violet; wings brown; small cross-vein on the middle of the discal cell. — Length 4 mm.

Hyalomyia umbrosa n. sp. ♀. — Black; front trigonal, scarcely separating the eyes on the vertex; abdomen shining violet; wings grey, the veins broadly bordered with brown; small cross-vein beyond the middle of the discal cell. — Length 6 mm.

Hyalomyia umbrifera n. sp. ♀. — Black; front trigonal, scarcely separating the eyes on the vertex; abdomen, except the first segment, cinereous, with a black dorsal stripe and the hind borders of the segments black; wings partly brownish; small cross-vein beyond the middle of the discal cell. — Length 5,5 mm.

GYMNOSOMINAE.

Cistogaster ruficornis n. sp. ♂. — Head pale yellow; frontal band testaceous; antennae and palpi rufous; thorax anteriorly testaceous with four brown stripes; abdomen rufous; thorax posteriorly, scutellum, dorsal spots on the abdomen, and legs, black. — Length 5,5 mm.

Cistogaster melanosoma n. sp. ♀. — Black, including the antennae, palpi and legs; head whitish; shoulders, pleurae, and last abdominal segment, grey. — Length 6 mm.

Cistogaster subpetiolata n. sp. ♀. — Grey; frontal band, stripes on the thorax, first and second abdominal segments and

spots on the following segments, antennae, and legs, black; apical cell closed nearly at the wings margin. — Length 3,5 mm.

Cistogaster propinqua n. sp. ♀. — Head whitish; frontal band black; antennae partly rufous; palpi rufous; thorax grey with black stripes; abdomen yellowish-rufous with brown markings; legs black; apical cell closed nearly at the wings margin. — Length 6 mm.

Cistogaster griseonigra n. sp. ♀. — Grey; head whitish; frontal band, thoracic dorsum, some portions of the abdomen, antennae (except the rufous base of the third joint), and legs, black; palpi rufous. — Length 4,5---6 mm.

Cistogaster ferruginosa n. sp. ♂. — Head, thorax and scutellum ochraceous; abdomen rufous; frontal band, antennae (except the rufous base of the third joint), and legs, black; palpi rufous. — Length 5—6,5 mm.

Cistogaster hirticollis n. sp. ♂. — Head ochraceous; thorax and scutellum brownish, densely pilose; abdomen rufous with a black dorsal stripe; frontal band, antennae, and legs, black; palpi rufous. — Length 5,5 mm.

Cistogaster variegata n. sp. ♂. — Head ochraceous; thorax and scutellum yellowish-grey, thoracic dorsum with four brown stripes; abdomen rufous with black markings; frontal band, antennae, and legs, black; palpi rufous. — Length 4 mm.

OCYPTERINAE.

Ocyptera signatipennis n. sp. ♂. — Head whitish; thorax and scutellum blackish; abdomen rufous, with a black dorsal band and white incisions; antennae and legs black, the tibiae dark rufous; wings brownish on the costa and some of the veins bordered with brown. — Length 11 mm.

XANTHOMELANA n. gen. — Head broader than the thorax; front not prominent, in both sexes broadly separating the eyes (except one species, *anceps*, in which the front is triangular in ♂ and the eyes nearly contiguous on the vertex); frontal bristles weak; vibrissae at some distance above the oral margin, which is slightly prominent. Antennae shorter than the face; third joint oval or elliptical; arista bare. Abdomen cylindrical, showing five segments, with marginal macrochaetae. Legs with some bristles; foot-claws and pulvilli elongate in the ♂. Wings usually blackish along the costa; curvation of the fourth vein rounded; apical cell closed and shortly petiolated at the wings tip. — The flies of this genus are black with more or less extended yellow or rufous portions on the abdomen.

Xanthomelana articulata n. sp. ♂. — Black; head, shoulders and the transverse suture of the thorax yellow; abdomen rufous, black towards the end; femora rufous at the base; wings blackish, more obscure towards the costa; antennae elongate, the arista thick and distinctly jointed at the base. — Length 5 mm.

Xanthomelana rubicunda n. sp. (♂?). — Thorax black with yellow and whitish markings; head white; antennae short, arista not visibly jointed; abdomen and legs rufous; antennae, frontal band, scutellum, and the last two segments of the abdomen, black; wings blackish, darker at the base and along the costa. — Length 4,5 mm.

Xanthomelana dorsalis n. sp. ♂ ♀. — Thorax black with yellow markings; abdomen yellow, with a black dorsal band or black dorsal spots; head pale yellow; legs black, the coxae and base of the femora yellow; wings black on the costal half. — Length 7 mm.

Xanthomelana trigonalis n. sp. ♂. — Yellow; frontal band, antennae, three stripes on the thorax, trigonal dorsal spots on the

abdomen, and legs, black; wings blackish along the costa. — Length 7,5 mm.

Xanthomelana gracilenta n. sp. ♂ ♀. — Thorax black with yellow or whitish markings; head yellow (♂) or white (♀); frontal band, antennae, and legs, black; abdomen yellow, with a dorsal band and the last segment black; tegulae and halteres pale yellow; costal half of the wings blackish. — Length 4,5 mm.

Xanthomelana anceps n. sp. ♂. — Deep black, including the antennae, legs, tegulae and halteres, only the abdomen yellowish-red; wings blackish; front triangular, the eyes nearly contiguous on the vertex. — Length 5 mm.

PHANINAE.

CLINOASTER n. gen. — Front slightly prominent, as broad as the eyes; frontal bristles weak; no orbital bristles; two stronger bristles on the vertex; face somewhat inclined; occiput swollen; vibrissae rudimentary. Eyes bare. Antennae elongate, nearly as long as the face; first joint very short; the second much longer, the third twice as long as the second; arista bare. Thorax with macrochaetae; abdomen elongate, curved down; four visible segments, the anal segment short; some short marginal macrochaetae. Legs slender; foot-claws and pulvilli elongate in ♂. Wings shorter than the abdomen; apical cell closed and shortly petiolated; curvation of the fourth vein with acute angle.

Clinogaster notabilis n. sp. ♂. — Black; face and reflections on the thorax whitish; hind margins of the first two abdominal segments narrowly yellow; anal segment and base of the antennae rufous; wings with a brown shadow at the end of the costa; their base yellowish. — Length 12,5 mm.

PENTHOSIA n. gen. — Front slightly prominent, broad in both

sexes; frontal bristles weak; on the vertex two stronger bristles; face somewhat inclined, on each side with a row of hairs; eyes bare; vibrissae weak; inferior part of the cheeks more than half as long as the longitudinal diameter of the eyes. Antennae obliquely exerted; their basal joints very short, the third joint much longer; arista nearly bare. Thorax densely pilose; abdomen cylindrical, posteriorly curved downward, with short marginal macrochaetae. Legs hairy; foot-claws and pulvilli elongate in ♂. Wings longer than the abdomen; apical cell closed and petiolated, its petiole bent upward; curvation of the fourth vein rectangular.

This genus is erected for *Scopolia satanica* Bigot (*Ann. soc. ent. de France* 1888, p. 254), which is not at all a *Scopolia* Rob. Desv.

TACHININAE.

Dejeania montana n. sp. ♂ ♀. — Thorax blackish, indistinctly striped; face and cheeks yellowish white; scutellum and abdomen rufous; anal segment black; antennae and legs piceous; palpi rufous. — Length 9—11,5 mm.

Hystricia testaceiventris n. sp. ♂. — Face and cheeks whitish; front and thorax blackish; scutellum and abdomen yellowish-testaceous; antennae, palpi and legs black; third joint of the antennae double as long as the second; wings infuscated. — Length 13,5 mm.

Hystricia albosignata n. sp. ♂. — Head yellowish; front cinereous; frontal band blackish; thorax cinereous with four black stripes; scutellum yellowish-rufous; abdomen brownish-red, with black dorsal spots and trigonal whitish markings; antennae black, with the basal joints rufous; palpi and legs yellow; wings brownish. — Length 13—15,5 mm.

Saundersia montivaga n. sp. ♂ ♀. — Head yellowish; front cinereous, the frontal band brown; basal joints of the antennae rufous, third joint black, as long as the second; thorax and scu-

tellum cinereous; abdomen black, the anal segment with some whitish reflections; legs ochraceous; wings brownish. — Length 14,5 mm.

Saundersia femorata n. sp. ♂ ♀. — Agrees in all respects with the preceding species, but differs by a little smaller size and by the femora, which are black with exception of the tip. — Length 11—12,5 mm.

Saundersia consanguinea n. sp. ♂ ♀. — Thorax blackish; scutellum and abdomen brownish-yellow; antennae and legs (including the foot-claws) black. — Length 14,5 mm.

Saundersia laeta n. sp. ♂ ♀. — Head yellowish-white, thorax cinereous; scutellum rufous; abdomen yellow, with the anal segment dark rufous; antennae black, sometimes with rufous portions; legs rufous with black tarsi; wings brownish. — Length 10,5 mm.

Jurinia nitidula n. sp. ♂ ♀. — Face and cheeks yellowish; front cinereous; antennae black, with the basal joints rufous, the third joint as long as the second; palpi rufous; thorax cinereous with blackish lines; scutellum and abdomen shining bluish-black; second and third abdominal segments only with marginal spines; legs black, the front tarsi slightly dilated in ♀; wings brownish-grey. — Length 11—12 mm.

Jurinia punctata n. sp. ♀. — Black; thorax anteriorly cinereous; head yellowish; basal joints of the antennae rufous, the third joint brown, a little shorter than the second; palpi rufous; spines of the third abdominal segment in a transversal row; front tarsi not dilated; tegulae blackish; wings somewhat brownish, with a dark spot on the small cross-vein. — Length 11 mm.

Jurinia nepticula n. sp. ♂ ♀. — Head yellowish; basal joints of the antennae rufous, the third joint black, a little shorter than

the second; palpi rufous; thorax cinereous; scutellum testaceous; abdomen shining black, laterally dark rufous; second and third segments only with marginal spines; legs black; front tarsi not dilated in ♀; tegulae whitish; wings brownish. — Length 10,5 mm.

Jurinia assimilis n. sp. ♂ ♀. — Black; head pale yellow; antennae black or brown, the third joint longer than the second; palpi fulvous; abdomen densely spinose; legs black; foot-claws yellow with a black tip; front tarsi not dilated in ♀; wings brownish-grey. — Length 11—16 mm.

Jurinia congruens n. sp. ♂ ♀. — Allied to the preceding and to *J. adusta* v. d. W. (*Biol. c. Am.* Dipt. II p. 28). Black; head pale ochraceous; antennae and palpi rufous; third antennal joint as long as the second; frontal bristles descending irregularly beneath the root of the antennae; palpi fulvous; abdomen densely spinose; wings brownish-grey. — Length 11—16 mm.

Jurinia spinigera n. sp. ♀. — Face and cheeks yellowish; front cinereous; antennae black, the basal joints rufous, the third joint as long as the second; palpi rufous; thorax and scutellum cinereous; abdomen bluish-black, its whole surface densely spinose; legs black, the front tarsi scarcely a little dilated in ♀; wings brownish-grey. — Length 11 mm.

Echinomyia generosa n. sp. ♂ ♀. — Head yellowish; frontal band rufous; cheeks on each side with two bristles; basal joints of the antennae rufous, the third joint black, broader and a little shorter than the second; palpi yellowish, filiform; thorax cinereous with black lines; scutellum testaceous; abdomen shining black, the anal segment laterally with white reflections; second and third segments only with marginal macrochaetae; legs black, front tarsi dilated in ♀; wings brownish-grey. — Length 9—13 mm.

Echinomyia compascua n. sp. ♂. — Agreeing with the

preceding species, but differing by the absence of the white reflections on the anal segment and by the macrochaetae of the abdomen, which are more numerous and also present on the disc of the third segment. — Length 11 mm.

Micropalpus angustifrons n. sp. ♂. — Head yellowish; front narrow, half as broad as the eyes; frontal band black; basal joints of the antennae black, the third joint dark rufous, double as long as the second; thorax and scutellum black, the thorax anteriorly whitish with four black stripes; abdomen piceous with white reflecting spots; legs black; wings nearly hyaline. — Length 7 mm.

Trichophora fucata n. sp. — Shining black; head whitish; basal joints of the antennae rufous; two (seldom three) bristles on the cheeks; abdomen ovate, the anal segment piceous, laterally with whitish reflections; second and third segments only with marginal macrochaetae; legs black; tegulae whitish; wings grey, brownish towards the costa. — Length 9 mm.

Trichophora convexinervis n. sp. ♂ ♀. — Shining black; head greyish; antennae wholly black; cheeks mostly with a single bristle; abdomen ovate, the anal segment dark rufous; second and third segments with marginal macrochaetae; legs black, tegulae and wings brownish; posterior cross-vein distinctly curved outwards. — Length 7 mm.

Gymnomma discors n. sp. ♂ ♀. — Head ochraceous; frontal band dark rufous; basal joints of the antennae rufous, third joint black, ovate, a little longer than the second; thorax cinereous; scutellum, abdomen and legs rufous, the abdomen convex, with some indication of blackish dorsal spots; third segment with discal and marginal macrochaetae; tegulae and base of the wings rufous. — Length 8 mm.

Nemochaeta frontalis n. sp. ♂. — Black, including the antennae and legs; head whitish; front laterally bluish-black, shining, the frontal band opaque, deep black; palpi fulvous; thorax anteriorly greyish; abdomen convex, black or piceous; foot-claws yellow with a black tip; tegulae and base of the wings brownish. — Length 11 mm.

Nemochaeta nitida n. sp. ♂ ♀. — Shining black; head whitish; frontal band brown; basal joints of the antennae, and palpi rufous; thorax anteriorly whitish; foot-claws black; tegulae and base of the wings fuscous, the dark colour covering the two inferior basal cells. — Length 10 mm.

Nemochaeta infuscata n. sp. ♀. — Black; head whitish; antennae rufous, the third joint brown at the tip; palpi ochraceous; thorax anteriorly whitish-grey; abdomen piceous; foot-claws black; tegulae and base of the wings fuscous, the dark colour covering not only the two inferior, but also the whole superior basal cell. — Length 10,5 mm.

Cnephalia ochriceps n. sp. ♀. — Cinereous; head and anal segment ochraceous; frontal band, four thoracic stripes, reflections on the abdomen, third antennal joint, and legs, black; palpi and basal joints of the antennae rufous; wings without any yellowish tint at the base. — Length 11,5 mm.

Gymnochaeta subviridis n. sp. ♀. — Thorax and scutellum metallic green, covered with grey tomentum; abdomen violet; head whitish; antennae and legs black; palpi rufous; curvation of the fourth vein rectangular. — Length 9 mm.

Meigenia albifacies n. sp. ♀. — Blackish; front borders of the second and third abdominal segments cinereous; head silvery-white; frontal band, antennae, and legs black; palpi rufous; bristles of the hind tibiae short and not fringe-like. — Length 6 mm.

Exorista leuconota n. sp. ♀. — Head and thoracic dorsum whitish; abdomen grey with black reflections and black hind borders of the segments; only marginal macrochaetae; antennae and legs black; proboscis and palpi yellowish-rufous. — Length 8 mm.

Miltogramma nana n. sp. ♀. — Head grey, front and upper portion of the cheeks somewhat rufous; frontal band black, linear; vibrissae present; antennae black; thorax cinereous with three black stripes; abdomen grey and black tessellate; legs black. — Length 3,5 mm.

Admontia ¹⁾ **occidentalis** n. sp. ♀. — Head and thorax whitish-grey; frontal band, antennae, and four black stripes on the thorax, black; basal joints of the antennae somewhat rufous; palpi rufous; abdomen black, with white front margins on the segments; legs black; front tarsi one and a half time as long as the tibiae, with the second and following joints dilated. — Length 6 mm.

1) Brauer and v. Bergenstamm, Denkschr. K. Acad. Wissensch. Wien. LVI, p. 104.



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