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Head light yellow, frontal vitta dark yellow, occiput, except the margin and a notch on upper part, brown, antennae yellow, the upper edge of the third joint tinged with brown, mouth parts light yellow; mesonotum and scutellum black, opaque, gray pruinose, pleura yellow, the sternopleura largely, and a spot above it, brown; mesonotum between the two rows of four dorsocentral bristles bare except in front of the suture, pleura bare except a few bristles along hind edge of mesopleura and one on the sternopleura; middle of melanotum and entire abdomen dark brown; femora yellow, a preapical brownish spot on the front side of each, tibiae and tarsi brown; wings hyaline, last section of fifth vein nearly one and one half times as long as the preceding section; halteres yellow. Length, 1.5 mm.

*Habitat.*—Mt. Washington, New Hampshire. Type A single specimen collected by Mrs. Annie T. Slosson. No. 6649, U. S. N. M.

*Parodinia*, gen. nov.

Near *Odinia* but with only two pairs of fronto-orbital bristles, eyes transversely ellipsoidal, etc. Head subquadrate, front convex, two pairs of vertical bristles, one pair of ocellars and a small, cruciate postvertical pair, front below the ocelli as wide as long, bare except for the fronto-orbitals, antenna porrect, half as long as the head, the third joint orbicular, over twice as long as the second, arista bare, face concave, vibrissæ present, on a level with the oral margin, proboscis short, robust, palpi clavate, auxiliary vein distinct in its basal portion, uniting with the first vein near its apex, costal vein reaches apex of fourth, not incised, third and fourth veins almost parallel, hind crossvein transverse, sixth vein obliterated before reaching the wing margin, anal and second basal cells present but small.

## Type, the following species:

*Parodinia cinerea*, sp. nov. Head yellow, the occiput, except the lower part, black, gray pruinose, mouth parts and antennæ yellow, third joint of the latter black, cheeks one-third as wide as the eye height; body black, opaque, densely gray pruinose, five pairs of dorsocentral bristles, four supra-alat, one humeral, two posthumeral, one proprieatal, one near hind edge of mesopleura, two sternopleural and four scutellar bristles, legs yellow, tarsi recognized, while *trinotata* is regarded by Schiner as being identical with the *Milichia maculata* of Meigen. This leaves *speciosa* as the type of *Milichia*, and it was so designated by Westwood in 1840 and by Rondani in 1856. In 1843 Loew wrongly selected *maculata* as the type of *Milichia*, and in this he has been followed by Schiner, Osten Sacken, and most recent writers. The synonymy of these two genera is as follows:

*Milichia* Meigen, 1830; type, *speciosa* Meigen.  
Synon. *Argyris* Latreille, 1829 (not of Hrbzner, 1816); no species mentioned.

*Loboptera* Wahlberg, 1847; type, *Indens* Wahlberg.

*Odinia* Desvoidy, 1830; type, *trinotata* Desvoidy.  
Synon. *Allotomitus* Rondani, 1856; type, *Odnia trinotata* Desvoidy.

brownish, middle and hind femora without bristles, all tibiae with a preapical bristle; wings hyaline, veins yellow, costa bearing several short, black, spinous bristles, small crossvein near middle of discal cell; halteres yellow. Length, 2 mm.

*Habitat.*—Los Angeles Co., California. Three specimens collected by the author. N. M.\*

*Pseudodinia*, gen. nov.

Near *Parodinia* but the vibrissæ wanting, the front wholly polished, etc. Head somewhat hemispherical, front but slightly convex and with a broad, transverse groove below the middle, the portion below the ocelli broader than long, bristles as in the preceding genus, antenna projecting obliquely downward, less than one third as long as the head, the third joint orbicular, slightly longer than the second, arista bare, face concave, sides of oral opening bearing short hairs, eyes bare, oblique, bare, face concave, with rounded corners; proboscis short and robust, the labella nearly quadangular, with rounded corners; auxiliary vein indistinct, extending close to the first until near the apex, then separating and ending in the costa, costal vein rather narrow; palpi nearly cylindrical; hind crossvein transverse, sixth vein obliterated slightly beyond apex of anal cell, the latter and second basal complete, small; tibiae bare.

## Type, the following species:

*Pseudodinia variipes*, sp. nov.

Black, the proboscis, halteres, tarsi and apices of tibiae yellow; thorax subopaque, thinly gray pruinose, two pairs of dorsocentral bristles, the hairs between them not in rows, four supra-alar bristles, one humeral two posthumeral, one near middle of hind edge of mesopleura and one sternopleural, a few hairs in front of the latter, pleura otherwise without hairs, scutellum bearing four bristles; wings hyaline, veins yellowish, changing to brown on the apical portion, second, third and fourth veins nearly parallel, the apices of the third and fourth diverging, last section of veins less than half as long as the preceding section, small crossvein near middle of discal cell. Length, 1.5 mm.

*Habitat.*—Las Vegas Hot Springs, New Mexico. Three specimens collected August 3, 8 and 15, by Mr. H. S. Barber. Type No. 6651, U. S. N. M.

*Milichia robertsoni*, sp. nov. <sup>→ Photo 107/4</sup> Black, including the halteres; the front angles of third abdominal segment, a few silvery white fascia at base of the fourth and whole of the fifth except its apex, silvery white pruinose, wings hyaline, costal incision small. Length, 2 mm.

*Habitat.*—Inverness, Florida.

*Rienaria costalis* Coquillett also belongs to *Parodinia*. It was described from the Galapagos Islands and Mr. Barber collected specimens at Williams, Flagstaff and Bright Angel, Arizona.

A male specimen received from Mr. Charles Robertson. Type No. 6652, U. S. N. M.

**Arctobiella**, gen. nov.

Near *Eusiphona* but the proboscis is short, robust, not geniculate, the third and fourth veins nearly parallel, etc. Head somewhat hemispherical, front flat, the portion below the ocelli over twice as long as wide, rather densely haired, bristles of head and body scarcely stouter than the hairs, face concave, vibrissae not differentiated from the adjacent hairs; antennae about one third as long as the head, the third joint orbicular, slightly longer than the second; arista bare; eyes densely haired; palpi clavate, auxiliary vein extending close to the first but separated from the latter before its apex and ending in the costa, hind crossvein transverse, costa not incised, costal vein reaches apex of the fourth; sixth vein obliterated far before reaching the wing margin, anal and second basal cells present but small.

Type, the following species:

**Arctobiella obscura**, sp. nov.

Black, including the halteres; cheeks about one sixth as wide as the eye height; body opaque, somewhat velvety, mesonotum and pleura rather densely haired, scutellum bearing a marginal row of bristly hairs, abdomen greatly depressed, less than twice as long as wide; legs short and rather robust; tibiae without bristles; wings pale brownish, small crossvein near middle of discal cell. Length, 4 mm.

*Habitat.*—Laggan, British Columbia.

A single specimen collected by Prof. H. F. Wickham. Type No. 6653, U. S. N. M.

**Desmomietopa luteola**, sp. nov. *Stomosis inornata*

Yellow, the arista and bristles black; wings hyaline, third and fourth veins nearly parallel, last section of fifth vein less than one fourth as long as the preceding section, small crossvein near two-thirds length of discal cell. Length, nearly 2 mm.

*Habitat.*—Williams, Arizona.

A single specimen collected June 30 by Mr. H. S. Barber. Type No. 6654, U. S. N. M.

**Agromyza picta**, sp. nov.

Black, the proboscis, sides and posterior part of mesonotum, scutellum, upper half of pleura, halteres, and abdomen except the last two segments and middle of the preceding, yellow; body polished, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the bristly hairs between them not disposed in rows, a large space in front of scutellum destitute of hairs; wings hyaline, faintly tinged with smoky brown along the costa, last section of fifth vein slightly shorter than the preceding section. Length, 3 mm.

*Habitat.*—Frontera, Tabasco, Mexico.

A single specimen collected March 5 by Mr. C. H. T. Townsend. Type No. 6655, U. S. N. M.

**Agromyza parvicella**, sp. nov.

Black, the cheeks, sides of face, proboscis, halteres, and knees, yellow, lower part of front yellowish-brown; thorax opaque, gray pruinose, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the hairs between them in two rows; wings grayish hyaline, veins brown, last section of fourth vein slender, last section of fifth five times as long as the preceding section, small crossvein at two-thirds of length of the unusually small discal cell. Length, 2 mm.

*Habitat.*—St. Paul Island, Alaska.

A single specimen collected by Prof. Trevor Kincaid. Type No. 6656, U. S. N. M.

**Agromyza flavonigra**, sp. nov.

Head and its members yellow, an ocellar dot, occiput except the margin, the arista and bristles black; body yellow, hairs and bristles black, mesonotum black, the sides, front angles, four vittæ and spot in front of scutellum yellow, a black humeral dot, an irregular, interrupted vitta on lower part of pleura, large spot on sternum in front of middle coxae, spot on each side of scutellum at base, fascia at bases of abdominal segments three and four, two pairs of dots on segment five and whole of six, black; mesonotum somewhat opaque, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the hairs between them not in rows; coxae and femora yellow variegated with black, tibiae and tarsi wholly black; wings hyaline, veins brown and of nearly equal thickness, last section of fifth vein one and one-half times as long as the preceding section; halteres yellow. Length, 3 mm.

*Habitat.*—Beulah, New Mexico.

Two specimens collected June 29 and in July by Prof. and Mrs. T. D. A. Cockerell. Type No. 6657, U. S. N. M.

**Agromyza varifrons**, sp. nov.

Black, the lower half of front, antennæ, face, cheeks, mouth parts, halteres, knees and bases of tarsi, yellow; mesonotum somewhat polished, two pairs of dorsocentrals, the bristly hairs between them not in rows; wings hyaline, veins brown, of nearly an equal thickness, last two sections of fifth vein subequal in length. Length, 1.5 mm.

*Habitat.*—District of Columbia.

A single specimen collected by the writer. Type No. 6658, U. S. N. M.

**Agromyza pruinosa**, sp. nov.

Black, the halteres and knees yellow, lower half of frontal vitta, antennæ, depressions of face, lower edge of cheeks and the mouth parts, reddish-yellow; mesonotum rather densely whitish-gray pruinose, four pairs of dorsocentral bristles, the anterior pair in front of the suture, the hairs between them not in rows; wings hyaline, veins brown, of nearly an equal thickness, apical portions of third and fourth

veins strongly diverging, last two sections of fifth vein subequal in length. Length, 2.5 mm.

*Habitat.*—Colorado.

A single specimen collected by Mr. H. K. Morrison. Type No. 6659, U. S. N. M.

*Agromyza viridula*, sp. nov.

Black, the body, especially the abdomen, greenish, halteres white, apex of proboscis yellowish-brown; mesonotum somewhat polished, two pairs of dorsocentral bristles, the hairs between them numerous, not disposed in rows; wings hyaline, veins brown, of nearly an equal thickness, last section of fifth vein two thirds as long as the preceding section, small crossvein near one-third of length of discal cell. Length, 2 to 2.5 mm.

*Habitat.*—District of Columbia (Coquillett, in June); Beverly, Massachusetts (Burgess, June 29); Georgia (Morrison); and Aguadilla and Mayaguez, Porto Rico (Busck, in January).

Five specimens. Near *nigra*, but that species has three pairs of dorsocentral bristles, small crossvein at middle of discal cell, etc. Type No. 6660, U. S. N. M.

*Hemeromyia*, gen. nov.

Near *Agromyza* but the vibrissae distinctly above the front edge of the oral margin, face strongly convex, etc. Head somewhat quadrangular, front convex, the portion below the ocelli broader than long, bristles as in *Fareldinia* except that the postvertical pair is diverging; antennae scarcely one-sixth as long as the head, the third joint orbicular, arista bare, face retreating at the oral margin, a row of bristles on lower portion of cheeks, eyes transversely oval, bare; proboscis short and robust; palpi clavate; costal vein reaching apex of fourth, not incised, auxiliary vein indistinct, its apical portion united with the first, the second, third and fourth veins nearly parallel, hind crossvein transverse, anal and second basal cells present but small, sixth vein obliterated before reaching the wing margin.

Type, the following species:

*Hemeromyia obscura*, sp. nov.

Black, the face and cheeks yellow, antennae, palpi and halteres brownish-yellow, knobs of halteres whitish; front opaque, the ocellar triangle and orbits slightly polished, cheeks one sixth as wide as the eye height; mesonotum almost without hairs, bearing four pairs of dorsocentral bristles, four supra-alar, one humeral, two posthumeral, mesopleura with one bristle and a row of hairs along the posterior edge and a bristle near middle of lower edge, a small pteropleural bristle, sternopleura bearing one bristle and a few hairs, scutellum bearing four bristles, tibiae without bristles, wings hyaline, last section of fifth vein one-fifth as long as the preceding section, small crossvein at three-fourths length of discal cell. Length, 1.5 mm.

*Habitat.*—Las Vegas Hot Springs, New Mexico.

A single specimen collected August 11 by Mr. H. S. Barber. Type No. 6661, U. S. N. M.

*Phytomyza palliata*, sp. nov.

Yellow, an ocellar dot, occiput except lower margin, and mesonotum except the sides and hind margin, black, center of sternopleura and bases of abdominal segments, brownish; bristles black; mesonotum opaque, gray pruinose, bearing only a few hairs, four pairs of dorsocentrals; wings hyaline, fourth vein as strong as the third, hind crossvein wanting. Length, 1.5 mm.

*Habitat.*—Mesilla Park, New Mexico.

A single specimen bred from *Portulaca* August 10 by Prof. T. D. A. Cockerell. Type No. 6662, U. S. N. M.

*Phytomyza bicolor*, sp. nov.

Black, the labella, halteres and abdomen except the last segment and base of the preceding, yellow; thorax thinly grayish pruinose, four pairs of dorso-central bristles, the hairs between them numerous, not arranged in rows; wings hyaline, veins yellowish, fourth vein subhyaline, noticeably more slender and less distinct than the third, hind crossvein wanting. Length, 3 mm.

*Habitat.*—Niagara Falls, New York.

A single specimen collected June 23 by Mr. C. W. Johnson. Type No. 6663, U. S. N. M.

NEW FORMS OF CULICIDÆ FROM NORTH AMERICA.

By D. W. COUILLETT.

*Corethrella*, gen. nov.

Near *Corithra* and *Machilonyx*, but differing from both in having the antennæ wholly covered with hairs and the apical joints shorter than the intermediate ones. Antennæ 14-jointed, the first joint unusually large, bulbous, twice as wide as long, the remaining joints slender, elongate, wholly covered with hairs, which are very dense in the male but very sparse in the female, in both with a sparse whorl of bristles near base of each joint, the second joint with an additional whorl before the middle, the hairs and bristles noticeably sparser and shorter on the last three joints than on the preceding ones, hairs on the sixth joint in the male over four times as long as that joint and but slightly shorter than the bristles, in the female the longest hairs on the sixth joint are about half as long as that joint and about one-fourth as long as the bristles, antennæ only slightly thickened at the insertion of the whorls of bristles, second joint slightly longer than the third, about four times as long as wide, joints three to eleven becoming successively a trifle longer, the last three