TABLE OF THE NORTH AMERICAN SPECIES OF MEDETERUS, WITH DESCRIPTIONS OF THREE NEW FORMS.

By M. C. VAN DUZEE, Buffalo, N. Y.

Medeterus longinervis, new species.

Male; 2-2.2 mm. Face black; front brown. Antennæ black, third joint small; artista apical; lower orbital cilia whitish.

Thorax and abdomen black with green reflections; dorsum of thorax more brown with gray pollinose vittæ; the posterior depression reaches the middle of the mesonotum, where the acrostichal bristles end, they are in two rows with a slight coppery vitta between them; one small black bristle above each fore coxa; scutellum with two pair of bristles, the outer pair half as long as the middle ones; hairs of abdomen and hypopygium white; hypopygial appendages brownish yellow.

Coxæ black, anterior pair with pale hairs on front surface and one small black bristle at tip. Femora blackish; tibiæ and tarsi yellowish brown, all their hairs white; middle tibiæ with a small black bristle at basal fourth and posterior pair with one near apical fourth. Joints of hind tarsi as 17-27-14-7-6.

Wings grayish, veins brown; last section of fifth vein 28, of cross-vein 9 fiftieths of a millimeter long.

Type, male, No. 1887, Calif. Acad. Sci., Taken by Edward P. Van Duzee, June 15, 1925, at Olney, Oregon. Two paratypes were taken at the same time and place and are also in the Academy collection.

Medeterus albosetosa, new species.

Male: Length 2 mm. Face and front gray with pollen, which covers the ground color. Antennæ black, the two basal joints more brown, third small, scarcely as long as wide, a little pointed in the middle; arista apical, orbital cilia whitish.

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Thorax brown with gray pollen, which leaves narrow brown lines along the rows of bristles; prothorax with two large whitish bristles above each fore coxa; scutellum with two pair of large bristles. Abdomen and hypopygium black with white hair; hypopygial appendages yellowish brown.

Coxæ black, anterior pair nearly bare with black bristles at tips. Femora black with apical third yellow; tibiæ and tarsi yellow, the latter scarcely darker at tip; tibiæ without bristles; joints of fore tarsi as 19-17-10-5-5; of middle pair as 29-21-13-5-6; those of posterior pair as 11-31-12-8-5. Calypters, their cilia and the halteres yellow.

Wings grayish, veins yellow when seen against a dark back-ground; last section of fifth vein 14, cross-vein 10 fiftieths of a millimeter long; venation normal.

Described from one male, taken at Galveston, Texas, in May, by F. J. Snow.

Type in the Kansas University collection.

Medeterus ciliata, new species.

Male; length 3 mm. Face and front black, rather dull, with scarcely a trace of green color. Antennæ wholly black, small; lower orbital cilia brownish yellow.

Thorax and abdomen dark green, a little shining; pollen of thorax dark gray, almost brown; scutellum with two pair of bristles; prothorax with two or three small black bristles above each fore coxa; hairs of the abdomen and legs black; hypopygium and its appendages black.

Coxæ, femora, tibiæ and tarsi black, knees narrowly yellow; fore coxæ with short black hair; fore and middle femora below and posterior pair on anterior surface with long brown hair, some of these hairs being as long as width of femora. Joints of fore tarsi as 15-21-14-5-7; of middle tarsi as 33-17-10-8-5; those of posterior pair as 20-30-14-9-8. Calypters yellow with a black edge and brown cilia; knobs of halteres yellow, their stems brown.

Wings grayish, rather dark; last section of fifth vein 32, cross-vein 16 fiftieths of a millimeter long.

Described from one male taken at Niagara Falls, Ontario, July 17, 1921, by the author.

Type in the author's collection.

Table of North American species of Medeterus.

1	Scutellum with one pair of bristles, there may be a small pair of hairs outside of these
2	Antennæ, proboscis and legs, including the fore coxæ, yellow, (Virginia)novus Van Duzee. Antennæ, proboscis and more or less of the femora black3
3	Thorax with distinct vitte4
O	Thorax without distinct vittæ
4	Thorax with a median blue vitta, (New York)
	obesus Van Duzee.
	Thorax with a median brown stripe running its entire
	length
5	Wings with a brown cloud at base of third vein6
	Wings without a distinct cloud at base of third vein7
6	Tibiæ and tarsi yellow, (California). cuneiformis Van Duzee.
	Tibiæ brownish; tarsi black with the base of the basitarsus
	yellowish, (California). Female of <i>nitidiventris</i> Van Duzee.
7	Abdomen bluish with gray pollen; front in male produced
	into a four sided pyramid, (Washington)
	petulcus Wheeler.
0	Abdomen shining black, or with green reflections 8
8	Tibiæ and tarsi mostly yellow, (California)
	Tibiæ and tarsi black, green or brown9
9	Last section of fifth vein only a little longer than the
ð	cross-vein, (California)
	Last section of fifth vein one and a half times as long as the cross-vein, (California)nitidiventris Van Duzee.
10	Last section of fifth vein only a little more than half as long as the cross-vein, (Alaska)minima Van Duzee.
	Last section of fifth vein longer than the cross-vein11

11	Femora mostly yellow; mesonotum and abdomen light green.
	(California)longinguus Van Duzee.
	Femora mostly black; mesonotum coppery; abdomen dark
	green, (California)aeneus Van Duzee.
	Femora mostly black; mesonotum nearly opaque with gray
	pollen, so as to appear gray, (California)
	falcatus Van Duzee.
12	Bright metallic species
	Darker species, usually blackish, sometimes very dark
	green
13	Anterior tarsi plain
	Fore tarsi modified, ornamented
14	First joint of hind tarsi only a little shorter than the second;
	length over 3 mm., (Guatemala) planipes Van Duzee.
	Posterior tarsi with the second joint twice as long as first $.15$
15	Legs altogether black; second joint of hind tarsi more than
	twice as long as first, (North America) nigripes Loew.
	Legs wholly yellow; first and second joints of hind tarsi as
	19 to 37, (Eastern)aberrans Wheeler.
16	Length 2 mm.; male with a lobe on the side of third joint of
	fore tarsi, (New Jersey; Ontario) lobatus Van Duzee
	Length 3 mm.; fore tarsi otherwise formed
17	Fore tarsi a little widened from base to tip of second joint;
	third joint only a little narrowed at base, but suddenly
	narrowed to a slender projection, to which the fourth
	joint is attached; fourth and fifth joints slender, (Guate-
	mala)
	Fore tarsi with the second and third joints very much com-
	pressed and expanded on upper edge; fourth and fifth
	joints minute, (Guatemala)flavipes Van Duzee
18	Bristles above fore coxæ black
	Bristles above fore coxæ pale, white or yellowish 41
19	Second joint of hind tarsi more than twice as long as first.20
10	Second joint of fore tarsi twice or less than twice as long as
	first
200	Legs altogether black, (North America)nigripes Loew.
20	Tibiæ largely yellow, (Eastern)vittatus Van Duzee.
	Tible largely yellow, (Eastern)vittatus van Duzee.

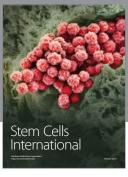
40	Psyche	[March
21	Antennæ wholly black	
22	Knobs of halteres blackish	$\dots \dots 23$
23	Last section of fifth vein to cross-vein as 9 to 28 longinervis Van Duzee, no Last section of fifth vein and cross-vein of all length, (Ontario)	s, (Oregon) ew species. oout equal
24	Second joint of hind tarsi slightly more than twice first	e as long as25 n twice as
25	Metallic blue in color, (Illinois) cærulescen Black in color, (Eastern)	
26	Hairs of the abdomen black	27
27	Second joint of hind tarsi one and a fourth times the first; last section of fifth vein over twice as a cross-vein, (Ontario; New York)frontalis V. Second joint of hind tarsi one and a half times first	long as the Van Duzee. as long as
28	Last section of fifth vein only a little longer than vein, (California)	Van Duzee. cross-vein,
29	Second joint of hind tarsi nearly one and three-four as long as first, (Alaska)bicolor V Second joint of hind tarsi about one and a third long as first, (Alaska)parvus V	an Duzee. d times as
30	Thorax with distinct gray vittæ	
31	Dorsum of thorax with four gray vittæ (Idaho) aldrich Dorsum of thorax with a distinct gray stripe each acrostichal bristles	
32	Last section of fifth vein one and a half times as lecross-vein, (Washington; Alaska)viduus	ong as the

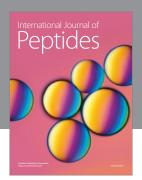
	Last section of fifth vein scarcely longer than the cross-vein,
	(Washington; Alaska). female of viduus Wheeler
33	Mesonotum with thick brown pollen34
	Mesonotum with thin grayish pollen
34	Fore coxæ almost bare, except a few black brisiles at tip;
	large species, (Ontario; New York)
	emarginatus Van Duzee.
	Fore coxæ with a row of hairs or bristles on outer anterior
	$edge. \dots \dots$
35	Hypopygial lamellæ black, (Alaska) viridifacies Van Duzee.
	Hypopygial lamellæyellow, (Alberta) trisetosus Van Duzee.
36	Last section of fifth vein one and a half times long as the cross vein
	Last section of fifth vein not but little longer then the
	cross vein
37	Cilia of the calypters black, (Illinois)cærulescens Malloch.
	Cilia of the calypters pale
38	Fore coxe with black hair, (New Hampshire)
	Fore coxe with pale hairs
39	Middle femora with yellowish bristles below; second joint
	of hind tarsi one and three fourths times as long as the
	first, (Alaska) bicolor Van Duzee.
	Middle femora without yellowish bristles below; second joint
	of hind tarsi one and a third times as long as first, (Alaska).
	parvus Van Duzee.
4 0	Hypopygial lamellæ black; second joint of hind tarsi one
	and three-fourths times as long as first; last section of
	fifth vein in male three fourths, in female a little more
	than the length of the cross-vein, (Oregon)
	oregonensis Van Duzee.
	Hypopygial lamellæ yellowish; second joint of hind tarsi one
	and a half times as long as first; last section of fifth vein
	and the cross-vein of nearly equal length, (Alberta). male
	of trisetosus Van Duzee.
41	Abdomen blue
_	Abdomen bronze, green or black
	The state of

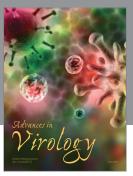
12	Dorsum of thorax with a yellowish vitta; antennæ wholly black, (Idaho)
43	Males and females. .44 Males only. .53
44	Thorax with distinct vitte
45	Last section of fifth vein only half as long as the cross-vein, (New Jersey)
46	Last section of fifth vein about the same length as the cross-vein
47	Legs and feet black; knobs of halteres infuscated, (New Jersey)
48	Tips of third and fourth veins close together, as is typical of the genus; rather large species, (California)
	Tips of third and fourth veins a little wider apart than usual, (North America)veles Loew.
49	Abdomen and pleuræ black; face opaque with brown pollen; thoracic vittæ very distinct; tips of third and fourth veins rather far apart, (North America)veles Loew. Abdomen, pleuræ and face distinctly green; thoracic vittæ
	less distinct; tips of third and fourth veins close together as usual in the genus, (New York; New Jersey; Alaska). distinctus Van Duzee.
50	Legs yellow; cross-vein with a stump vein at its center (Wyoming)appendiculatus Wheeler
	Legs black, at least the femora largely black; cross-vein normal, without a stump vein

51	Knobs of halteres infuscated, at least on one side, (New
	Jersey)
	Knobs of halteres yellow
52	Last section of fifth vein only half as long as the cross-vein,
	(California)xerophilus Wheeler
	Last section of fifth vein a little longer than the cross-vein,
	(specimens in which the thoracic vittæ are obsolete),
	(North America)veles Loew.
	Last section of fifth vein twice as long as the cross-vein,
	(New York; New Jersey: Alaska) distinctus Van Duzee
53	Posterior cross-vein with a stump vein near its center, (Cali-
	fornia)
	Cross-vein normal, without a stump vein54
54	Posterior basitarsus narrowed at base below and with a
	small tooth on this narrowed portion55
	Posterior basitarsus without a tooth below, not narrowed at
	base
55	Small species, 2 mm.; third and fourth veins rather far
	apart at their tips for the genus, (North America)
	veles Loew.
	Larger species; 3 mm. or over; third and fourth veins with
	their tips close together as usual in the genus, (California).
	californiensis Wheeler.
56	Last section of fifth vein only half as long as the cross-vein,
	(California)
	Last section of fifth vein longer than the cross-vein, or
	equal to it in length
57	Last section of fifth vein and the cross-vein of nearly equal
	length; knobs of halteres more or less infuscated, New
	Jersey) modestus Van Duzee
	Last section of fifth vein much longer than the cross-vein. 58
58	Length of last section of fifth vein to cross-vein as 14 to 10,
	(Texas) albisetosa Van Duzee, new species
	Last section of fifth vein twice as long as the cross-vein,
	(New York; New Jersey; Alaska) distinctus Van Duze

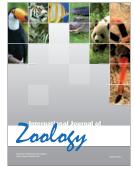


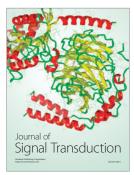






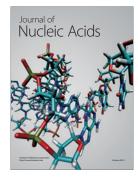




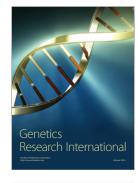




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