On the fauna of the Coleophoridae of Mexico
(Lepidoptera: Coleophoridae)

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Abstract

16 new species are described from Mexico: Coleophora papalotontli van der Wolf, sp. n., C. powelli van der Wolf, sp. n., C. saltoella van der Wolf, sp. n., C. tehuanacella van der Wolf, sp. n., C. coahuila van der Wolf, sp. n., C. popoloca van der Wolf, sp. n., C. bajacalsv van der Wolf, sp. n., C. penicillata van der Wolf, sp. n., C. pueblana van der Wolf, sp. n., C. catarinae van der Wolf, sp. n., C. puntapietae van der Wolf, sp. nov., C. yagul van der Wolf, sp. n., C. bajacaliforniae van der Wolf, sp. n., C. iztac van der Wolf, sp. n., C. incerta van der Wolf, sp. n. and C. mexicacopa van der Wolf, sp. n. Of C. yagul the foodplant is given and the larval case described and illustrated. The female genitalia of C. mexicana Landry, 1994 are described and illustrated for the first time. C. versurella Zeller, 1849 is reported from Mexico for the first time.

KEY WORDS: Lepidoptera, Coleophoridae, Nearctic, new species, Mexico.
All specimens treated in this paper are deposited in the Essig Museum of Entomology, The University of California, Berkely.

Abbreviations and Explanations

EMEC: Essig Museum of Entomology, The University of California, Berkely.

gen. prep. Wf: genital preparation van der Wolf

Nahuatl: The language spoken by the Aztecs in Central Mexico, and still being used in several regions of Mexico.

Systematic part

Coleophora mexicana Landry, 1994


Diagnosis: The specimens exactly correspond with the description of Coleophora mexicana Landry, 1994, a species described after one male specimen collected at Gomes Farias, Tamaulipas, Mexico (LANDRY, 1994). According to Landry the species most likely belongs to the ramitella group of metallic-green Coleophoridae, and is closely related to C. timarella Landry & Wright, 1993. The female genitalia are here described for the first time.

Description female genitalia (Fig. 34): Papillae anales long, slender. Apophyses posteriores 1,5 times longer than anteriores. Sterigma subtrapezoid, medially excavated; caudal margin with strong bristles. Ostium bursae cup-shaped, almost as wide as sterigma, gradually narrowing into a transparent ductus bursae with central line; at 2/6 a chitinous sleeve with tiny spikes, at 5/6 a slightly chitinised convolution, at 6/6 a transparent section with very tiny spikes followed by an ovoid bursa; a thorn-like signum on an indistinct basal plate, and a small rasp-like signum.

Distribution: The specimens were collected at three different localities in Veracruz; the holotype was collected in Tamaulipas, the Mexican state north of Veracruz.

Bionomy: The early stages and the foodplant are not known.

Coleophora versurella Zeller, 1849


Remark: The species is widespread over the holarctic, nearctic and neotropical regions, where it occurs in agricultural areas, feeding on the seeds of agricultural weeds. It is placed in the 30th species group of Toll’s system, having the characteristic double-rod phallotheca.


Bionomy: The larvae feed in a tubular case on the seeds of Amaranthus, Atriplex and Chenopodium.

Coleophora papalotontli van der Wolf, sp. n. (Fig. 1)

Holotype ♀: MEXICO, Puebla 2 mi. SW Tehuacan, 5300, 4-X-1975 blacklight trap 2300-0600 Powell, gen. prep. Wf 12051.

Diagnosis: A species characterized by its small size and almost uniform silvery whitish-beige colour. The double rods of the phallotheca of the male genitalia indicate that the species belongs to the
30th species-group of Toll’s system. The main characteristic in the male genitalia is the crescent-shaped dorsal process of the sacculus.

Description: Wingspan 10 mm. Head whitish. Labial palp whitish. Antenna: the scape, without scale tuft, is whitish; flagellum ringed white and dark grey. Forewing uniformly silvery whitish-beige; fringes beige. Hindwing not visible: the specimen, not spread, is glued on cardboard.

Male genitalia (Fig. 17): Gnathos knob globular. Tegumen narrow, medially constricted. Pedunculus slender, slightly rounded. Transtilla slender. Valvula indistinct. Cucullus short, broad, with rounded apex. Ventral margin of sacculus with convex fold; dorsal process of sacculus crescent-shaped. Phallotheca with two slender straight rods with blunt tips slightly bent upwards. Cornuti a long curved bundle of needle-like spikes.

Female genitalia: Unknown.

Bionomy: The species flies in October at an altitude of 1780 meters. The early stages and the foodplant are unknown.

Distribution: The species is only known from the Mexican State of Puebla.

Etymology: The name of the species is derived from Nahuatl: *papalotontli* = small moth.

**Coleophora powelli** van der Wolf, sp. n. (Fig. 2)


Diagnosis: A species of medium size characterized by almost uniform light greyish-beige colour, with darker costal region. The male genitalia indicate that the species belongs to Toll’s 30th species-group with double phallotheca rods. It is closely related to **Coleophora saltoella** van der Wolf sp. n., from which it differs by the rectangular shape of the dorsal process of the sacculus, the longer and more slender cucullus and the greater number of cornuti.

Description: Wingspan 16 mm. Head whitish. Labial palp long, whitish internally and externally; third segment about 2/3rd length second. Antenna whitish, scape without scale tuft. Forewing uniformly light greyish-ochreous, with occasional faint dark scales and a darker costal region. Fringe whitish. Hindwing light beige. Fringe grey.

Male genitalia (Fig. 18): Gnathos knob globular. Tegumen stretched, medially constricted. Pedunculus slender, rounded. Transtilla linear, slender. Valvula small, triangular. Cucullus long, rather narrow, with rounded apex. Sacculus with slightly convex ventral margin, ending in a rather rectangular dorsal process. Phallotheca slender, with two rods with ladle-shaped upturned apices; cornuti with one long and one shorter bundle of needle-like spikes.

Bionomy: The species flies in October at an altitude of 1780 meters. The early stages and the foodplant are unknown.

Distribution: Only known from the Mexican State of Puebla.

Etymology: The species is named after Jerry A. Powell, who collected most of the specimens dealt with in this paper.

**Coleophora saltoella** van der Wolf, sp. n. (Fig. 3)


Diagnosis: A species characterized by its almost uniform nutbrown colour. It belongs to Toll’s 30th species group, with double phallotheca rods. It is closely related to **Coleophora powelli** van der Wolf sp. n., from which it differs by its uniform brown colour, its hook-shaped dorsal process of the sacculus, the shorter and broader cucullus and the smaller number of cornuti.

Male genitalia (Fig. 19): Gnathos knob globular. Tegumen stretched, medially strongly constricted. Pedunculus slender, slightly rounded. Transtilla robust, club-shaped, with strong bristles. Valvula indistinct, rounded. Cucullus broad, with rounded apex. Sacculus with convex ventral margin, with hook-shaped dorsal process. Phallotheca with two rods of equal length, gradually tapering towards apex and ending in triangular apical teeth; cornuti a bundle of long spikes.

Bionomy: The species flies in August-October at an altitude of 1780-2820 meters. The early stages and the foodplant are unknown.

Distribution: Found in the Mexican States of Durango and Puebla.

Etymology: The species is named after the type locality El Salto in the Mexican State of Durango.

**Coleophora tehuacanella** van der Wolf, sp. n. (Fig. 4)


Diagnosis: A small-sized species. The male genitalia show a structure that is typical for species group 30 of Toll’s system., which has a double-rod phallotheca. An almost identical genital structure can be found in **Coleophora meridionella** Rebel, 1912, a species from the mediterranean region, and in **Coleophora zymotica** Meyrick, 1931, described from Paraguay.


Male genitalia (Fig. 20): Gnathos knob lozenge-shaped, narrow. Tegumen narrow, medially constricted. Pedunculus slender. Transtilla slender. Valvula small, inconspicuous. Cucullus large, gradually widening towards rounded apex. Sacculus narrow with convex ventral margin, with small rounded process; dorsal process hook-shaped with blunt apex. Phallotheca long, with two slender rods surpassing ventral margin of sacculus. Cornutus a long curved spine.

Female genitalia: Unknown.

Bionomy: The species flies in October at an altitude of 1780 meters The early stages and the foodplant are not known.

Distribution: Only known from the type locality in the Mexican State of Puebla.

Etymology: The name of the species refers to the type locality: the city of Tehuacan in the Mexican State of Durango.

**Coleophora coahuila** van der Wolf, sp. n. (Fig. 5)


Diagnosis: A small-sized species characterized by its orange-brown colour and white costal region. Judging from the male genitalia it belongs to Toll’s 30th species group with double-rod phallotheca.

Description: Wingspan 11 mm. Head white. Labial palp white; third segment 3/4th length second. Antenna, without scape tuft, with flagellum ringed black and white. Forewing orange-brown with occasionally dark scales giving it a rough appearance; costal region from base to 2/3rd white. Fringes silvery white. Hindwing light grey-brown. Fringes silvery white.

Male genitalia (Fig. 21): Gnathos knob conical. Tegumen stretched, medially constricted. Pedunculus broad, rounded. Transtilla hook-shaped. Valvula small, rounded. Cucullus long, gradually

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widening towards rounded apex. Sacculus with ventral margin slightly convex, progressing with a scalloped margin to a small dorsal process. Phallotheca broad, two rods gradually tapering towards acute points surpassing the sacculus margin. Cornuti a long string of fine needles.

**Bionomy:** The species flies in September at an altitude of 2230 meters. The early stages and the foodplant are not known.

**Distribution:** So far only known from the Mexican State of Coahuila, which borders the U. S. State of Texas.

**Etymology:** The name refers to the Mexican State of Coahuila, where the species was collected. Nahuatl *coahuila* (*cuahuilatan*) = Place among trees.

**Coleophora popoloca van der Wolf, sp. n.** (Fig. 6)

**Holotype ♂:** MEXICO, Puebla 2 mi. SW Tehuacan, 5300, 4-X-[19]75 blacklight trap J. Powell collector”, gen.prep. Wf 12143.

**Diagnosis:** A species characterized by its silvery white colour and small size. The male genitalia indicate that it belongs to Toll’s 30th species group because of its twin-rod phallotheca. The main characteristics are the shape of the phallotheca and the spatulate dorsal process of the sacculus.

**Description:** Wingspan 12 mm. Head white. Labial palp white, third segment about half length of second. Antenna whitish, without scale tuft on scape. Forewing silvery white. Fringes greyish-white. Hindwing and fringes greyish-white.

Male genitalia (Fig. 22): Gnathos lob lozenge-shaped, narrow. Tegumen narrow. Pedunculus broadly widened. Transtilla broad, rectangular. Valvula large, rounded. Cucullus long, broad, with rounded apex. Sacculus narrow, ventral margin almost straight, ending in a spatulate process. Phallotheca stout, sclerotized, halfway divided into two straight rods with slightly curved apices. Cornutus a long thin spine.

**Bionomy:** The species flies in October at an altitude of 1780 meters. The early stages and the foodplant are unknown.

**Distribution:** The species is only known from the type locality: Tehuacan, in the Mexican State of Pueblo.

**Etymology:** The name of the species refers to the Popoloca, one of the original populations of the Tehuacan valley (PLUNKET *et al.*, 2005). Nahuatl: popoloca = people who cannot be understood.

**Coleophora bajacalsur van der Wolf, sp. n.** (Fig. 7)

**Holotype ♂:** MEX., Baja California Sur, Las Barracas, ca 30 km. E Santiago, 1-6-V-1982 Paul De Bach, collector malaise trap”, gen. prep. Wf 12171.

**Diagnosis:** A medium-sized species with whitish ground colour suffused with light beige and with occasional dark scales. Costal area irregularly white. With its double-rod phallotheca it belongs to Toll’s 30th species group. The male genitalia are characterized by a short cucullus, a sacculus with a hook-shaped ventral process and a crooked stout dorsal process.


Male genitalia (Fig. 23): Gnathos knob globular. Tegumen stretched, medially constricted. Pedunculus rather broad, rounded. Transtilla broad, crooked, tapering towards a rounded apex. Cucullus broad, short, with rounded apex. Valvula pronounced, rounded. Sacculus broad, with almost straight ventral margin with acute hook-shaped ventral process, and a stout slightly crooked dorsal process. Phallotheca with two slender rods, one with faint serrate dorsal edge. No cornuti observed.

**Bionomy:** The species flies in May. The early stages and the foodplant are unknown.

**Distribution:** Only known from the type locality: Mexico, Baja California Sur.
Etymology: The name is a shortening of Baja California Sur, the Mexican State where the species was collected.

**Coleophora penicillata van der Wolf, sp. n.** (Fig. 8)


Diagnosis: A medium-sized species with light beige silky appearance. It belongs to Toll’s 30th species group with double-rod phallotheca. In the male genitalia it is characterized by a huge hook-shaped dorsal process of the sacculus with numerous apical bristles.

Description: Wingspan 15 mm. Head whitish. Labial palp very long, white, third segment as long as second. Antenna without scale tuft on scape; flagellum ringed dark brown and white. Forewing silky light beige, with a very fine white costal streak; very faint whitish streaks along veins. Fringes brown-grey. Hindwing light grey. Fringes brown-grey.

Male genitalia (Fig. 24): Gnathos knob lozenge-shaped. Tegumen stretched, medially constricted. Pedunculus slender, slightly rounded. Transtilla slender, linear. Valvula inconspicuous. Cucullus short, broad, with rounded apex. Saccus broad, with slightly convex ventral margin, ending in a square corner with small acute process. Dorsal process long, slender, its hooked apex covered with numerous bristles. Phallotheca with two stout rods tapering to acute apices, each topped with a triangular tooth. Cornuti a long bundle of spines.

Bionomy: The species flies in July-September at an altitude of 1770-2800 meters. The early stages and the foodplant are unknown.

Distribution: The species is known from the Mexican States of Durango and Guerrero.

Etymology: The species-name penicillata (Latin: *penicillatus* = with a brush) refers to the apical brush of the dorsal process of the sacculus.

**Coleophora pueblana van der Wolf, sp. n.** (Fig. 9)


Diagnosis: A species characterized by its small size. Its ground colour is grey, speckled with many black scales. Judging from the male genitalia the species is related to Toll’s 30th species group with a double-rod phallotheca. The very short and inconspicuous cucullus is characteristic for the species.


Male genitalia (Fig. 25): Gnathos knob globular. Tegumen stretched, medially constricted. Pedunculus triangular. Transtilla long, hook-shaped, forming a V. Valvula small, triangular, inconspicuous. Cucullus very short, inconspicuous. Saccus broad, ventral margin convex, gradually tapering towards cucullus, dorsal process pronged. Phallotheca with two slender rods projecting beyond cucullus and sacculus, apices acute. Cornuti a long string of tightly packed short spines.

Bionomy: The species flies in October at an altitude of 1780 meters. The early stages and the foodplant are unknown.

Distribution: The species is only known from the Mexican State of Puebla.

Etymology: The name pueblana refers to the Mexican State of Puebla, the type locality of the species.
Coleophora catavinae van der Wolf sp. n. (Fig. 10)


Diagnosis: A medium-sized species with white ground colour and some black streaks along veins. The species belongs to Toll’s 30th species group with double-rod phallotheca. In the male genitalia the species is characterized by the long cucullus and the long dorsal process of the sacculus. Judging from the male genitalia the species is closely related to Coleophora puntaprietae. For differences see there.


Male genitalia (Fig. 26): Gnathos knob lozenge-shaped. Tegumen stretched, medially constricted. Pedunculus broadly rounded. Transtilla linear, slender. Valvula inconspicuous. Cucullus long, slender, with rounded apex. Sacculus large, with slightly convex ventral margin. Ventral process a large chitinized triangle with rounded top. Dorsal process a long irregularly shaped arm reaching middle of cucullus. Phallotheca with double slender rods surpassing sacculus. Cornuti a bundle of spines.

Bionomy: The species flies in March-April at an altitude of 690 meters. The early stages and the foodplant are unknown.

Distribution: Only known from the Baja California Norte.

Etymology: The name is derived from the type locality: Arroyo Catavina.

Coleophora puntaprietae van der Wolf sp. n. (Fig. 11)


Diagnosis: A medium-sized species with greyish-white forewings densely sprinkled with dark grey, black and dark brown scales. The species belongs to Toll’s 30th species group with double-rod phallotheca in the male genitalia. They show that the species is closely related to Coleophora catavinae van der Wolf, sp. n. The differences are that in puntaprietae the forewing is unicolorous, whereas catavinae has black streaks along the veins; in puntaprietae the cucullus is short and broad, in catavinae long and narrow.


Male genitalia (Fig. 27): Gnathos knob globular. Tegumen stretched, medially constricted. Pedunculus broadly rounded. Transtilla triangular. Valvula large, rounded. Cucullus stout, short. Sacculus large, with rather straight ventral margin. Ventral process small, rounded. Dorsal process a long irregularly shaped arm surpassing cucullus. Phallotheca with two slender rods reaching half-way sacculus. Cornutus a long spine.

Bionomy: The species flies in April. The early stages and the foodplant are unknown.

Distribution: Only known from the Baja California Norte.

Etymology: The name refers to the type locality: Punta Prieta.

Coleophora yagul van der Wolf, sp. n. (Fig. 12)

Diagnosis: A medium-sized species with white groundcolour overlaid with multiple dark and light brown streaks of different widths along veins. The species, with a double-rod phallotheca, belongs to Toll’s 30th species group.


Male genitalia (Fig. 28): Gnathos knob globular. Tegumen rather broad, medially slightly constricted. Pedunculus stretched, slightly rounded. Transtilla slender, straight. Valvula inconspicuous. Cucullus rather short and narrow. Sacculus with rather straight ventral margin, progressing at 120° as a straight scalloped margin towards a blunt triangular dorsal process. Phallotheca with two slender rods tapering to acute apices. Cornutus a wavy bundle of numerous long spines.

Bionomy: One adult was bred from several larval cases found feeding on the leaves of Baccharis sp. Larval case (Fig. 33): Tubular, bivalved, length 8 mm. Oral opening 45º to the long axis. The colour of the case is greyish-ochreous. The surface of the case is rather rough. The case was collected in February, the adult emerged at the end of March in captivity inside the house, after having survived a flight to Europe. The species occurs at an altitude of 1500 meters.

Distribution: Only known from the Mexican State of Oaxaca.

Etymology: *Coleophora yagul* is named after the archeological site Yagul in the Mexican State of Oaxaca. The cases of the species were found among the ruins of this site on plants underneath an old tree. The Zapotec word *yagul* means old tree. *(ya = tree, gul = old)* (WIKIPEDIA).

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**Coleophora bajacaliforniae van der Wolf, sp. n.** (Fig. 13)


Diagnosis: A large species with greyish-white colour, sparsely sprinkled with very tiny black specks. Its systematic position is not clear. The male genitalia are reminiscent of those of *Coleophora granifera* Braun, 1919, a species known from Canada and the U.S.A. However, the habitus of the adult does not match.


Male genitalia (Fig. 29): Gnathos knob small, globular. Tegumen broad, not constricted. Pedunculus rather short, broad, rounded. Transtilla oblong, tapering towards a sharp point. Valvula oblong, rounded, progressing on to mid-cucullus. Cucullus short, broad. Sacculus with ventral margin convex, reaching up to a conical point reaching the rounded cucullus apex. Phallotheca broadly tubular, tapering to an acute point reaching towards valvula. Cornutus a slender spike.

Bionomy: The species flies in March at an altitude of 690 meters. The early stages and the foodplant are unknown.

Distribution: Only known from the Mexican State of Baja California Norte.

Etymology: The name of the species refers to the type locality: the peninsula of Baja California.

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**Coleophora iztac van der Wolf sp. n.** (Fig. 14)


Diagnosis: A medium-sized species with snow-white forewings. The systematic position of the species cannot be ascertained.

Description: Wingspan 14 mm. Head snow-white. Labial palp white, second segment twice length
third, which is tinged yellowish. Antenna without scale tuft; flagellum white, strongly ringed black. Forewing snow-white. Fringes greyish-white. Hindwing light grey. Fringes light grey.

Male genitalia (Fig. 30): Gnathos knob conical. Tegumen stretched, narrow, medially strongly constricted. Pedunculus long, broadly rounded. Valvula rounded, with strong bristles, and with a long acute process directed towards cucullus. Cucullus narrow, gradually widening towards rounded apex. Sacculus gradually narrowing towards a blunt triangular process. This process is strongly chitinized, with a strong tooth on its dorsal margin. On the border of the process and the sacculus are about 10 parallel chitinized ridges. Phallotheca broad, gradually tapering towards a blunt apex halfway the cucullus. Cornuti a sinuous bundle of long spines.

Bionomy: The species flies in September at an altitude of 2230 meters. The early stages and the foodplant are unknown.

Distribution: Only known from the type locality: The Mexican State of Coahuila.

Etymology: The name iztac refers to the colour of the forewing: Nahuatl: iztac = white.

Coleophora incerta van der Wolf, sp. n. (Fig. 15)

Holotype \( \delta \): MEX., Sin[aloa], El Palmito, 15 mi. W. 18-VII-[19]64, J. A. Chemsak, J. Powell, black and white lights, gen. prep. Wf 12179.

Diagnosis: A species characterized by differently coloured streaks along the forewing. It is difficult to attribute the species to a related group.

Description: Wingspan 16 mm. Head white. Antenna white, scape white without scale tuft. Labial palp white, third segment about as long as second. Forewing light yellow with narrow white costal streak; a brown wedge-shaped streak from root to apex, and a narrow brown streak along dorsum. Fringes brown. Hindwing grey-brown. Fringes grey.

Male genitalia (Fig. 31): Gnathos knob globular. Tegumen narrow, medially constricted. Pedunculus slender. Transtilla large, rhomboid. Valvula inconspicuous. Cucullus of medium length, broad, with rounded apex. Sacculus with slightly convex ventral margin ending in a hook-shaped dorsal process, at its root a triangular flap. Phallotheca heavily sclerotized, stout, gradually tapering towards an obtuse apex. Cornuti a short bundle of spikes.

Bionomy: The species flies in July. The early stages and the foodplant are unknown.

Distribution: The species is only known from the Mexican State of Sinaloa.

Etymology: The name of the species reflects its dubious systematic position. (Latin incertus = dubious).

Coleophora mexicocopa van der Wolf, sp. n. (Fig. 16)

Holotype \( \delta \): MEXICO, Puebla 2 mi SW Tehuacan, 5300, 5-X-[19]75, blacklight trap J. Powell collector, gen.prep. Wf 12142. Paratypes: 1 \( \delta \), same data, gen.prep. Wf 12140; 1 \( \delta \), same data, but X-4-75, gen.prep. Wf 12145.

Diagnosis: A medium-sized species with yellowish-white forewings. The systematic position of this species cannot be ascertained. In the male genitalia the species is characterized by the very short and inconspicuous cucullus, the large triangular dorsal process of the sacculus and the peculiar slender, crooked processes issuing from the transtilla.


Male genitalia (Fig. 32): Gnathos knob globular. Tegumen broad, medially not constricted. Pedunculus broad, rounded. Transtilla linear, slender, on each distal end a slender crooked process. Valvula large, rounded, inconspicuous. Cucullus transparent, rather short, gradually tapering into an acute more sclerotized apex. Sacculus broad, ventral margin convex, issuing into a triangular ventral
process, at the root with a finger-like process. Dorsal process large, triangular, surpassing the cucullus, at its dorsal margin an acute triangular process. Cornutus dagger-shaped.

**Bionomy:** The species flies in October at an altitude of 1780 meters. The early stages and the foodplant are unknown.

**Distribution:** Only known from Tehuacan in the Mexican State of Puebla.

**Etymology:** The name *mexicocopa* is the Nahuatl word for ”mexican”.

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Figs. 1-7.—Adults: 1. Coleophora papalotontli van der Wolf, sp. n., holotype. 2. C. powelli van der Wolf, sp. n., holotype. 3. C. saltoella van der Wolf, sp. n., holotype. 4. C. tehuaacanella van der Wolf, sp. n., paratype. 5. C. coahuila van der Wolf, sp. n., holotype. 6. C. popoloca van der Wolf, sp. n., holotype. 7. C. bajacalsur van der Wolf, sp. n., holotype.
Figs. 29-34.—Male genitalia: 29. *C. bajacaliforniae* van der Wolf, sp. n., holotype. 30. *C. iztac* van der Wolf, sp. n., holotype. 31. *C. incerta* van der Wolf, sp. n., holotype. 32. *C. mexicacopa* van der Wolf, sp. n., holotype. Larval case; female genitalia: 33. Larval case of *Coleophora yagul* van der Wolf, sp. n. 34. Female genitalia of *Coleophora mexicana* Landry, 1994.