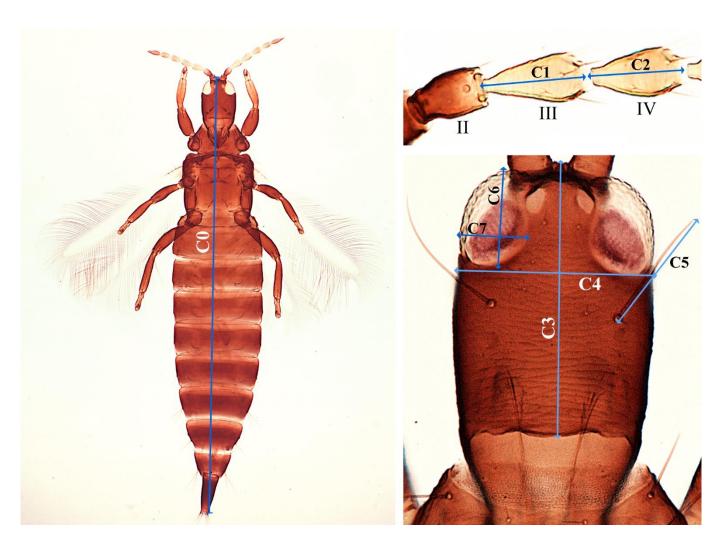
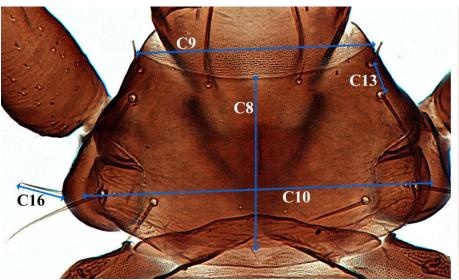
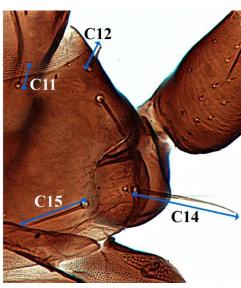
#### Continuous Characters (Matrices D1Con and D2Con)

	Character:	Description
C0	Body, distended length:	Measured from tip of interantennal projection to tip of tube, not including the anal membranous ring.
C1	Antenna, segment III, length:	Measured from base of segment to apex, not including membranous area.
C2	Antenna, segment IV, length:	Measured from base of segment to apex, not including membranous area.
C3	Head, dorsal length:	Measured from tip of interantennal projection to posterior dorsal margin of head capsule. Projections or craspeda on the posterior margin were not included in this measure.
C4	Head, width behind eyes:	Measured right behind compound eyes, not including projections or tubercles that may occur on genae.
C5	Head, postocular setae, length:	The PO seta that is the least curved or inclined was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure.
C6	Head, compound eyes, dorsal length:	Measured from anterior margin of compound eye to the apex of the curved posterior margin.
C7	Head, compound eyes, dorsal width:	Measured near the posterior area of the eye, including any curves/invagination the eye might have towards the ocellar area.

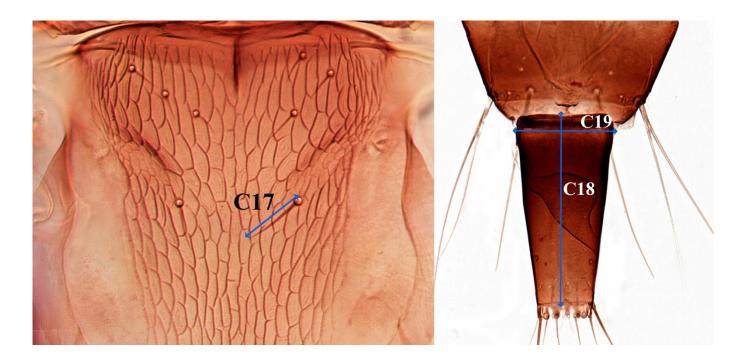


C8	Pronotum, median length:	Measured at the median line of pronotum, from the anterior margin to the posterior margin of the pronotal sclerite. Membranous areas were not included in the measure.
С9	Pronotum, apical width:	Measured from one anterior angle of pronotum to the other. Basal pores of setae or tubercles were not included.
C10	Pronotum, width across epimeral setae:	Measured at the level of epimeral setae, from the lateral margin of pronotum to the other, not including the basal pores of EP setae. The margins of fore coxae were not included.
C11	Pronotum, anteromarginal setae length:	The least curved or inclined am seta was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure.
C12	Pronotum, anteroangular setae length:	The least curved or inclined aa seta was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure.
C13	Pronotum, distance between basal pores of anteroangular and midlateral setae:	The shortest distance between the external margin of the basal pore of aa seta and the external margin of basal pore of ml seta, on the same side of pronotum, was measured.
C14	Pronotum, external epimeral setae length:	The least curved or inclined ep seta was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure. If two pairs of long epimeral setae are present, the most external pair was be measured.
C15	Pronotum, posteroangular setae length:	The least curved or inclined pa seta was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure.
C16	Pronotum, coxal setae length:	The least curved or inclined cx seta was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure.



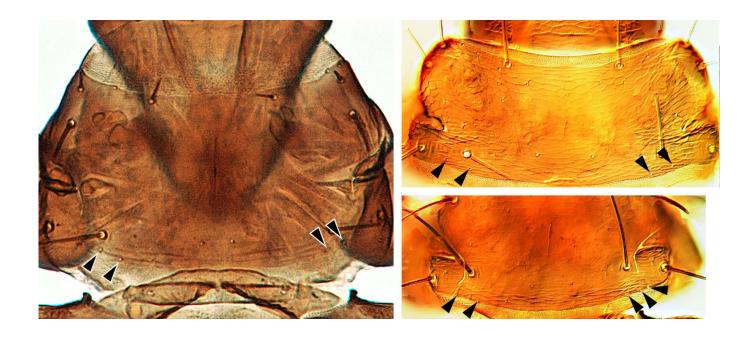


C17	Metanotum, major median setae length:	The least curved or inclined seta was measured, from its base to its apex, including expanded or capitate tips if present. Basal pore was not included in the measure.		
C18	Abdomen, tube, dorsal length:	Measured from the basal margin to the apical margin of tube, not including the membranous anal area.		
C19	Abdomen, tube, basal width:	Measured at the widest part of basal area.		



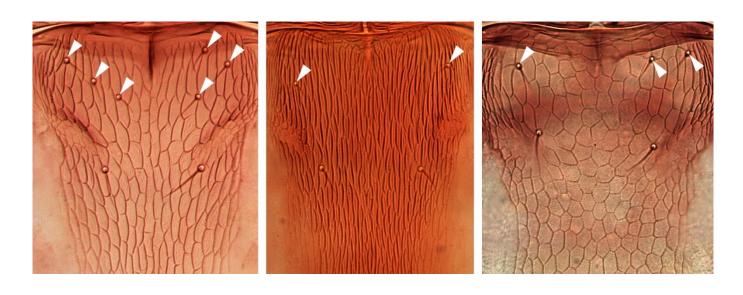
C20 Pronotum, minor posteromarginal setae, number:

All minor setae occurring at the posterior margin of pronotum, including epimeral area, were counted. Discal setae, the major epimeral, posteroangular or posteromedian setae were not considered here.

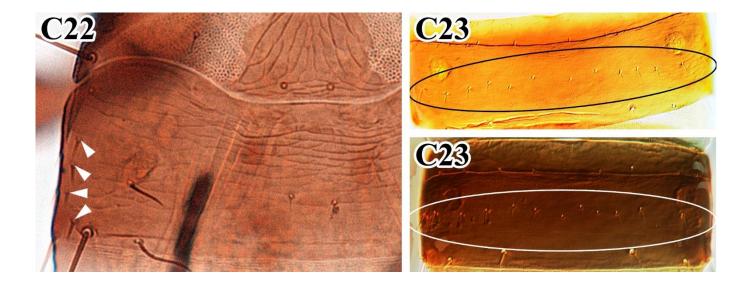


C21	Metanotum, disca
	setae, number:

All setae between the anterior margin of metanotum and the major pair of median metanotal setae were counted individually, not paired. The three minute pairs of setae at the anterior angles of metanotum, and the major median setae, were not included in this counting.



C22	Tergite II, lateral setae, number:	All setae occurring between the lateral margin of tergite and the wing-retaining setae were considered, except those setae on the posterior margin of tergite or sinuous/curved setae.		
C23	Sternite III, discal and lateral setae, number:	All setae occurring on discal area and laterally on the sternite were counted.  Marginal setae were not included.		



C24

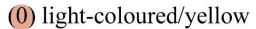
Fore wings, duplicated cilia, number: All duplicated cilia from the fore wing are counted. Both fore wings of the specimen were considered separately. This measure was considered as a range from the smallest amount of duplicated cilia observed to the largest amount observed.

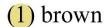


#### Discrete Characters

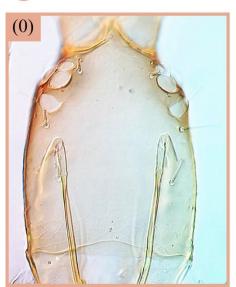
D1	D2	D1Con	D2Con	Character:
C0	C0	C25	C25	Head, colour: (0) light-coloured/yellow; (1) brown; (2) bicoloured.

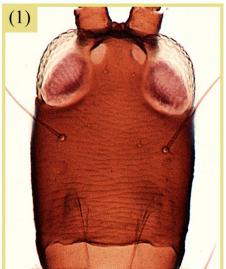
## Head, colour:





(2) bicoloured

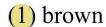




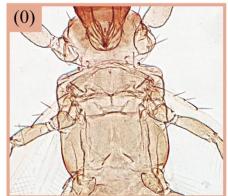


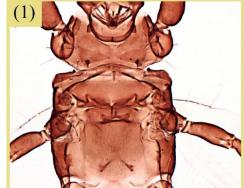
## Thorax, colour:

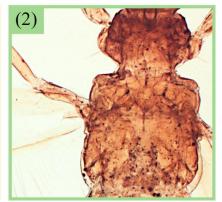




(2) bicoloured





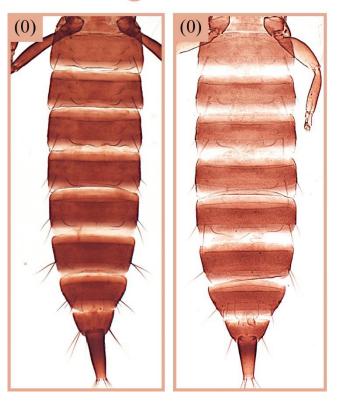


C2	C2	C27	C27

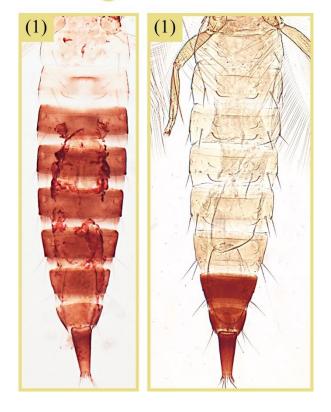
Abdomen, colour pattern: (0) uniform; (1) bicoloured.

## Abdomen, colour pattern:

(0) uniform

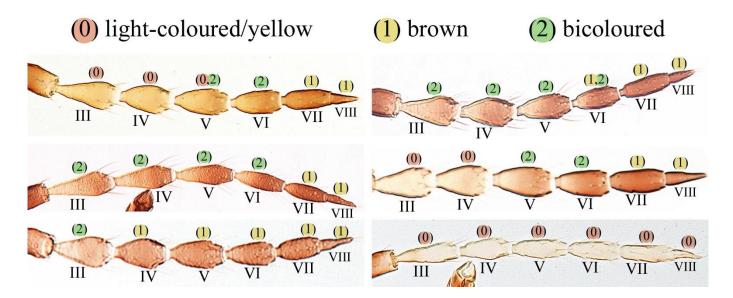


#### (1) bicoloured



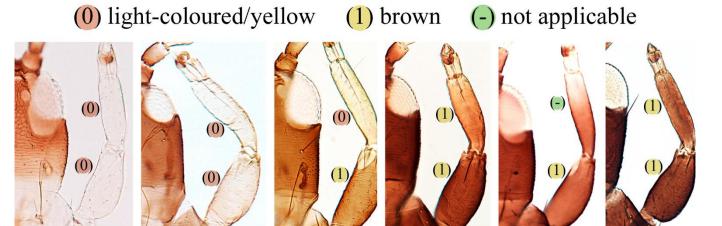
СЗ	C3	C28	C28	Antenna, antennomere III, colouration: (0) light-coloured/yellow; (1) brown; (2) bicoloured.
C4	C4	C29	C29	Antenna, antennomere IV, colouration: (0) light-coloured/yellow; (1) brown; (2) bicoloured.
C5	-	C30	-	Antenna, antennomere V, colouration: (0) light-coloured/yellow; (1) brown; (2) bicoloured.
C6	-	C31	-	Antenna, antennomere VI, colouration: (0) light-coloured/yellow; (1) brown; (2) bicoloured.
C7	-	C32	-	Antenna, antennomere VII, colouration: (0) light-coloured/yellow; (1) brown; (2) bicoloured.
C8	-	C33	-	Antenna, antennomere VIII, colouration: (0) light-coloured/yellow; (1) brown.
-	C5	-	C30	Antenna, antennomeres VII-VIII, colouration in relation to antennomeres III-VI: (0) concolourous; (1) darker.

## Antenna colouration:

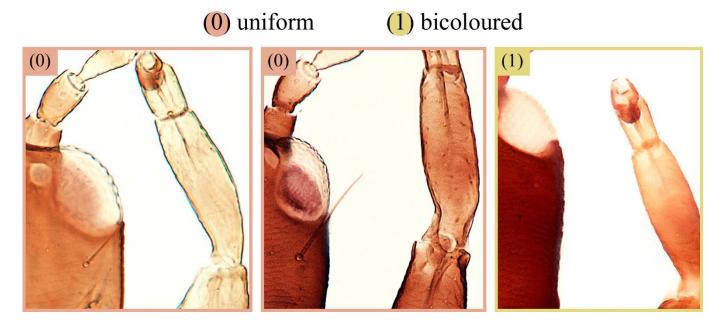


C9	C6	C34	C31	Fore legs, femur, colouration: (0) light-coloured/yellow; (1) brown; (-) not applicable.
C10	-	C35	-	Fore legs, tibia, colour pattern: (0) uniform; (1) bicoloured.
C11	-	C36	-	Fore legs, tibia, colouration (for uniformly-coloured ones): (0) light-coloured/yellow; (1) brown; (-) not applicable.
-	C7	-	C32	Fore legs, tibia, colouration in relation to fore femora: (0) concolourous; (1) lighter.
C12	C8	C37	C33	Hind legs, tibia, colour pattern: (0) uniform; (1) bicoloured.
C13	C9	C38	C34	Hind legs, tibia, colouration (for uniformly-coloured ones): (0) light-coloured/yellow; (1) brown.
C14	C10	C39	C35	Mid and hind legs, tarsus, colouration in relation to tibia: (0) concolourous; (1) differently coloured.

# Femur/Tibia, colouration (uniform only):



Tibia, colour pattern:



## Tibia, colour in relation to femur:

(0) concolourous

(1) lighter









C15	C11 C40	C36	Fore wings, apical half, colouration: (0) hyaline; (1) brown or shaded; (-) not applicable.
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# Fore wings apical half, colour:

(0) hyaline

(1) brown or shaded





C16	C12	C41	C37	Fore wings, median dark line: (0) absent; (1) present; (-) not applicable.
C17	C13	C42	C38	Fore wings, basal area, colouration in relation to apical half of fore wing: (0) concolourous; (1) lighter; (2) darker; (-) not applicable.
C18	-	C43	-	Wings, clavus, colouration: (0) hyaline; (1) brown or shaded.

# Fore wing, median dark line:

(0) absent

(1) present





## Fore wing base, colour in relation to apical half:

(0) concolourous

(1) lighter

(2) darker





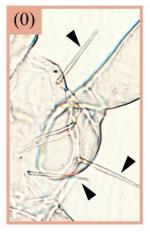


(	C19	C14	C44	C39	Major pronotal setae, colouration: (0) hyaline/lightly coloured; (1) dark brown.
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## Major pronotal setae, colour:

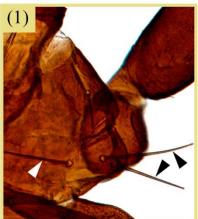
(0) hyaline/lightly coloured

(1) dark brown





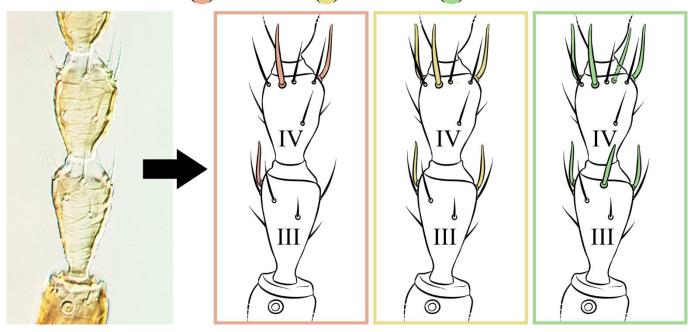




C20	C15	C45	C40	Antenna, antennomere III, number of sense cones: (0) 1 cone; (1) 2 cones; (2) 3 cones.
C21	C16	C46	C41	Antenna, antennomere IV, number of sense cones: (0) 2 cones; (1) 3 cones; (2) 4 cones.

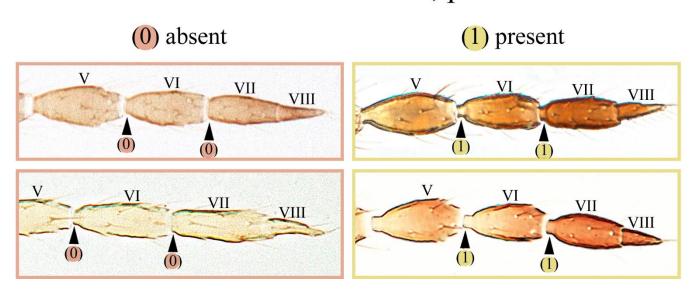
# Antennomeres III-IV, number of sense cones:

III: (0) 1 cone (1) 2 cones (2) 3 cones IV: (0) 2 cones (1) 3 cones (2) 4 cones



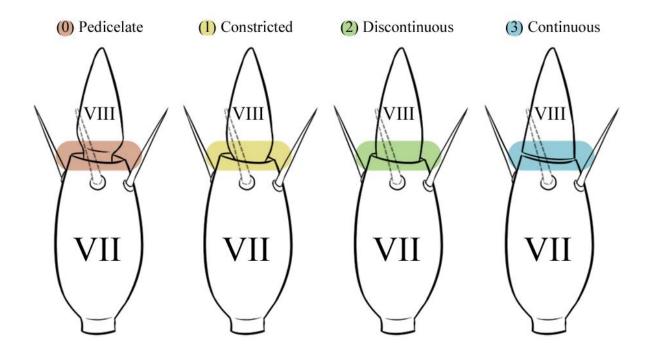
C22	-	C47	1	Antenna, antennomere VI, pedicel: (0) absent; (1) present.
C23	ı	C48	1	Antenna, antennomere VII, pedicel: (0) absent; (1) present.

# Antennomeres VI-VII, pedicel:



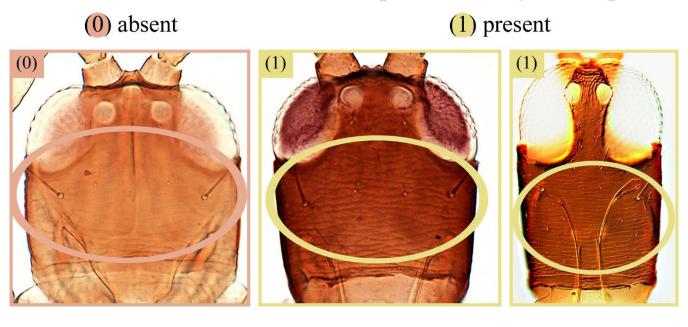
	C24	C17	C49	C42	Antenna, antennomere VIII, shape of base: (0) pedicelate (constricted and with pedicel); (1) constricted (without pedicel); (2) discontinuous (without constriction or pedicel, lateral margins discontinuous with margins of antennal segment VII); (3) continuous (without constriction or pedicel, lateral margins continuous with margins of antennal segment VII).
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#### Antenna, antennomere VIII, shape of base:



C25	C18	C50	C43	Head, dorsal surface, median area posterior to eyes, sculpture: (0) absent; (1) present.
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## Head, dorsal surface, median area posterior to eyes, sculpture:

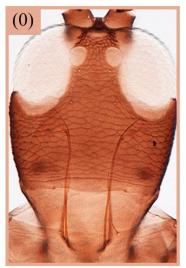


C26	C19	C51	Head, dorsal surface, median area posterior to eyes, type of sculpture: (0) reticulate; (1) transverse lines; (-) not applicable.
			, , , , , , , , , , , , , , , , , , , ,

### Type of sculpture:

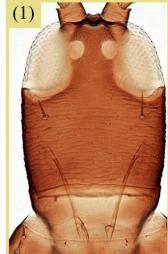
### (0) reticulate





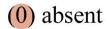




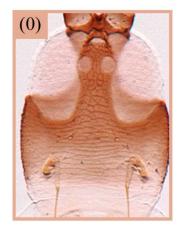


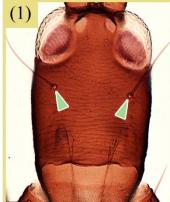
C27	C20	C52	C45	Head, major postocular setae: (0) absent; (1) present.
C28	C21	C53	C46	Head, major postocular setae, number: (0) 1 pair; (1) 2 pairs; (-) not applicable.
C29	C22	C54	C47	Head, major postocular setae, shape of apex: (0) acute to blunt; (1) expanded to capitate; (-) not applicable.

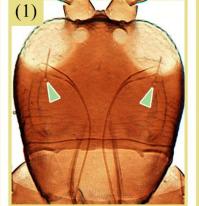
# Head, major postocular setae:



(1) present







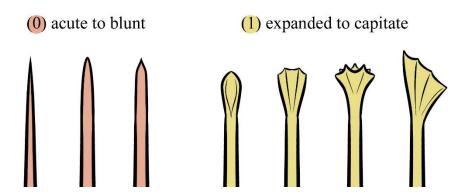


Head, major postocular setae, number:

(0) 1 pair

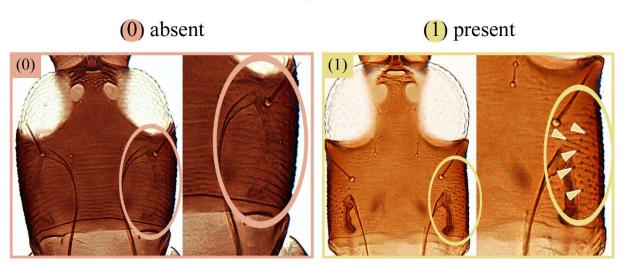
(1) 2 pairs

#### Setae, shape of apex:



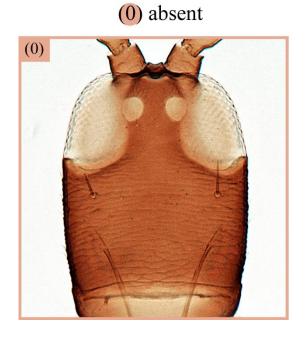
C30 C23 C55 C48 Head, lateral region, microsetae: (0) absent; (1) present.

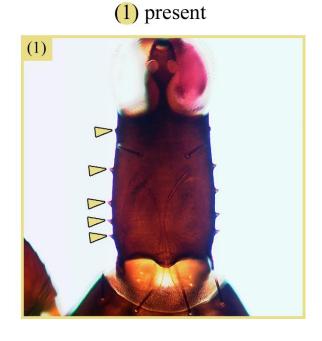
## Head, lateral region, microsetae:



C31 C24 C56 C49 Head, cheeks, tubercles: (0) absent; (1) present.

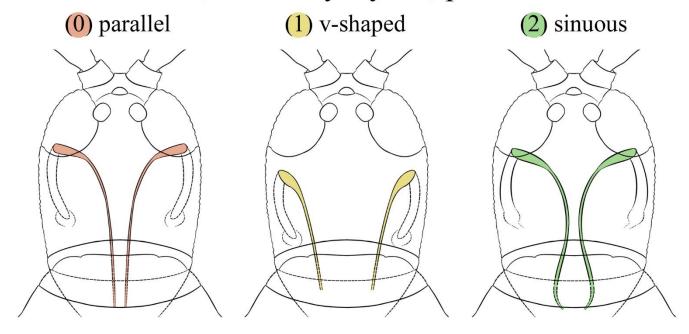
#### Head, cheeks, tubercles:





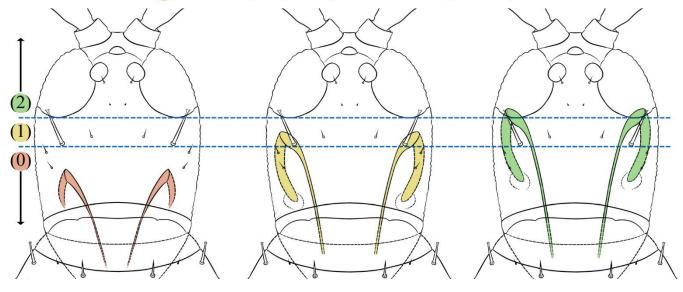
-	C25	-	C50	Head, maxillary stylets, position: (0) parallel; (1) v-shaped; (2) sinuous.
C32	-	C57	-	Head, maxillary stylets, position: (0) parallel, sometimes sinuous; (1) v-shaped.
-	C26	-	C51	Head, maxillary stylets, insertion into head capsule: (0) not reaching PO setae; (1) reaching about PO setae level; (2) reaching beyond posterior margin of eyes.
C33	-	C58	-	Head, maxillary bridge: (0) absent; (1) present.

# Head, maxillary stylets, position:



## Head, maxillary stylets, insertion into head capsule:

(0) not reaching PO level(1) reaching around PO level(2) reaching beyond posterior margin of eyes



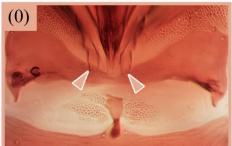
C27 C59 C52 C34 Head, labial palps, size: (0) apparent (projecting from margin of mouth cone) and with visible segmentation; (1) reduced or vestigial (similar to a papilla).

## Head, labial palps, size:

(0) apparent

(1) reduced or vestigial





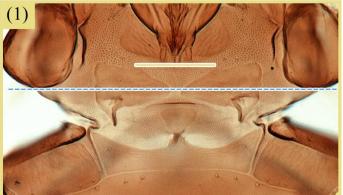


C35	C28	C60	Head, mouth cone, length in relation to posterior margin of fore coxae: (0) extends to or past posterior margin; (1) does not extend to posterior margin.

# Mouth cone, length in relation to posterior margin of fore coxae:

(0) extends to or past posterior margin (1) does not extend to posterior margin



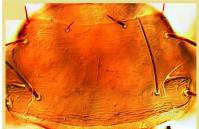


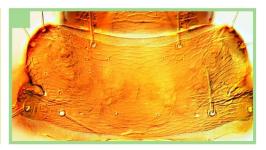
1	C29	-	C54	Pronotum, area of occupation of sculpture: (0) only posteriorly; (1) near anterior and posterior margins, absent medially; (2) covering the entire surface of pronotum.
C36	-	C61	-	Pronotum, median region, sculpture: (0) absent; (1) present.

## Pronotum, area of occupation of sculpture:

(1) only posteriorly(2) covering the entire surface of pronotum







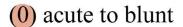
## Pronotum, median region, sculpture:

(0) absent

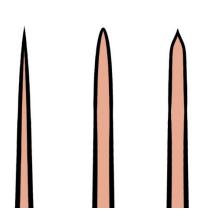
(1) present

C37	-	C62	-	Pronotum, anteromarginal setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.
C38	C30	C63	C55	Pronotum, anteroangular setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.
C39	-	C64	-	Pronotum, midlateral setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.
C40	C31	C65	C56	Pronotum, epimeral setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.

## Setae, shape of apex:

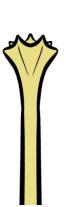










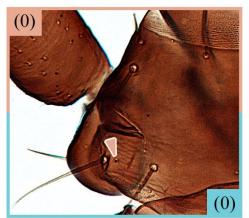


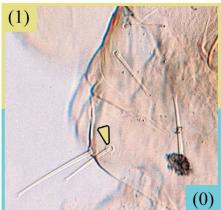


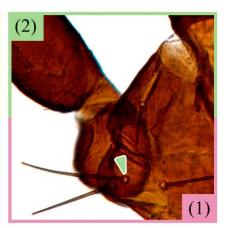
-	C32	-	C57	Pronotum, epimeral region, development of internal pair of EP setae: (0) minute/not developed; (1) well-developed, but at most half the length of the external pair; (2) as long as the external pair.
C41	-	C66	-	Pronotum, epimeral region, length of internal pair of epimeral setae in relation to external pair: (0) half or less; (1) about as long as the external pair.
C42	-	C67	-	Pronotum, posteroangular setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.
C43	-	C68	-	Pronotum, coxal setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.

# Pronotum, epimeral region, development of internal pair of EP setae:

(1) at most half the length of the external pair(2) as long as the external pair



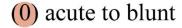


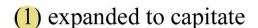


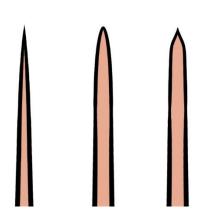
# Pronotum, epimeral region, length of internal pair of epimeral setae in relation to external pair:

- (0) half or less
- (1) about as long as the external pair

## Setae, shape of apex:

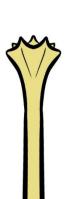














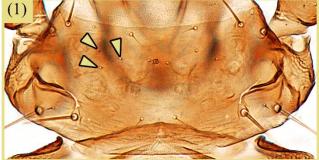
C44 C33 C69 C58 Pronotum, discal setae: (0) absent; (1) present.

#### Pronotum, discal setae:

(0) absent

(1) present





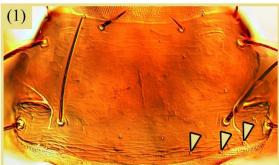
C45 C34 C70 C59 Pronotum, minor posteromarginal setae: (0) absent; (1) present.

#### Pronotum, minor posteromarginal setae:

(0) absent

(1) present



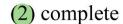


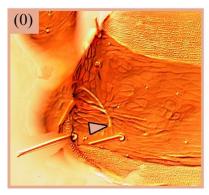
C46 C35 C71 C60 Pronotum, notopleural suture: (0) incomplete and short (distance from the posterior margin greater than the diameter of the pore of the posteroangular setae); (1) almost complete (distance from the posterior margin similar or less than the width of the pore of the posteroangular setae); (2) complete (isolates the epimeral sclerites from the pronotum).

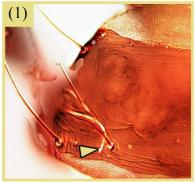
#### Pronotum, notopleural suture:

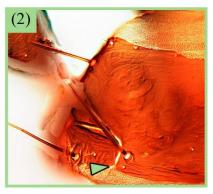


(1) almost complete









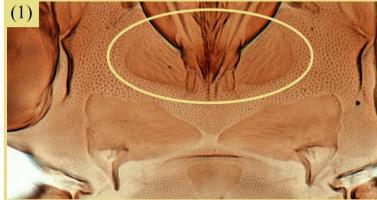
-	C36	-	C61	Prosternum, presence of clear and well-developed basantra: (0) absent; (1) present.
C47	-	C72	-	Prosternum, basantra: (0) absent; (1) present.

## Prosternum, basantra:

(0) absent

(1) present





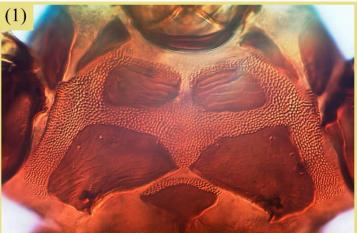
C48	-	C73		Prosternum, basantra, development: (0) fainty indicated; (1) strongly sclerotized; (-) not applicable.
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## Prosternum, basantra, development:

(0) faintly indicated

(1) strongly sclerotized



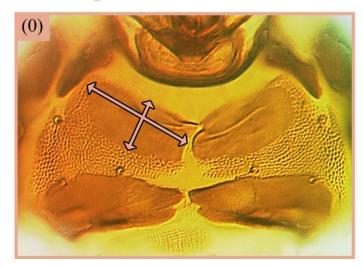


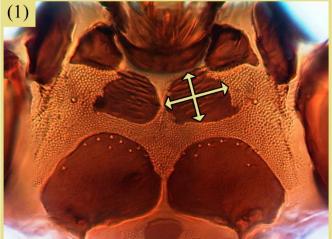
C49 - C74 - Prosternum, basantra, shape: (0) wider than long; (1) length and width subequal; (2) longer than wide; (-) not applicable.

## Prosternum, basantra, shape:

(0) wider than long

(1) length and width subequal





C50	C37 C75	C62	Prosternum, chitinous islets anterior to ferna: (0) absent; (1) present.
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## Prosternum, chitinous islets anterior to ferna:

(0) absent

(1) present

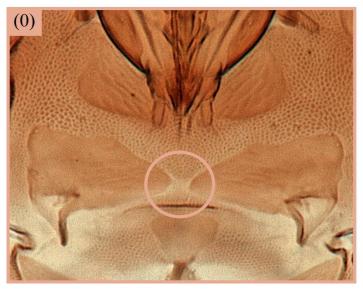


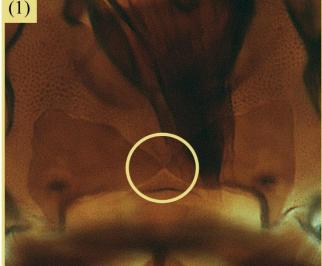


## Prosternum, ferna, median contact between plates:

(0) absent

(1) present



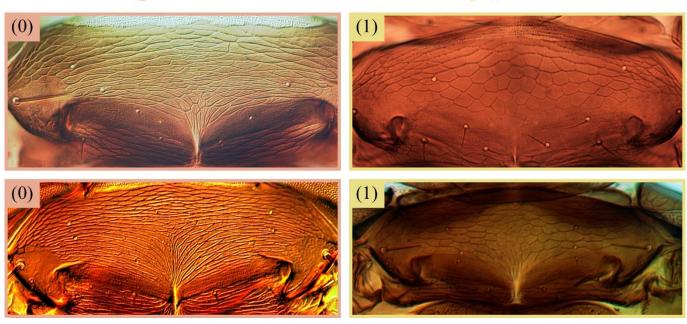


-	C38	-	C63	Mesonotum, median region, sculpture formed by equiangular reticulation: (0) absent; (1) present.
C52	-	C77	-	Mesonotum, anteromedian region, sculpture: (0) absent; (1) present.

# Mesonotum, median region, sculpture formed by equiangular reticulation:

(0) absent

(1) present



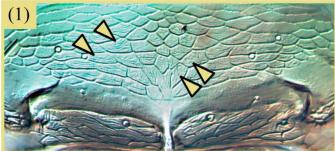
C53	C39	C78	C64	Mesonotum, sculpture, internal markings: (0) absent; (1) present; (-) not applicable.
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## Mesonotum, sculpture, internal markings:

(0) absent

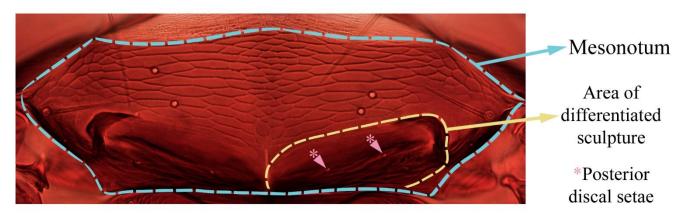
(1) present



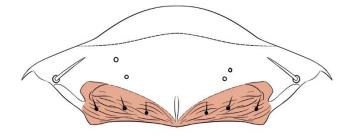


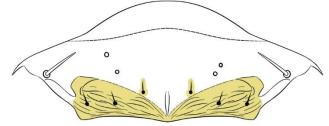
C54 C40 C79 C65 Mesonotum, posterior discal setae, position: (0) all pairs arising with posterior area of differentiated sculpture; (1) at least one pair arising margin or anterior to the posterior area of differentiated sculpture.	
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## Mesonotum, posterior discal setae, position:

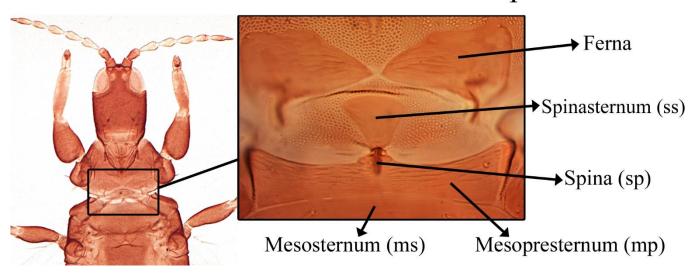


(0) all pairs arising within the posterior area of differentiated sculpture (1) at least one pair arising at the margin or anterior to the posterior area of differentiated sculpture



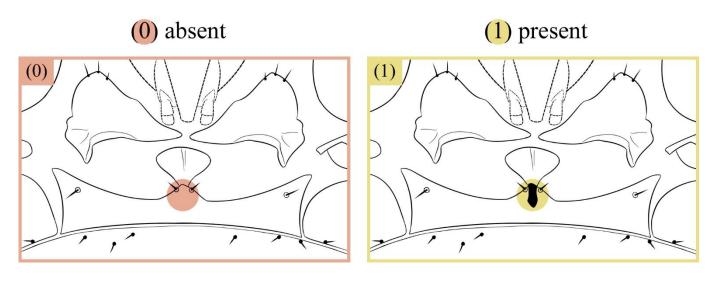


## Prosternum and mesosternum parts:



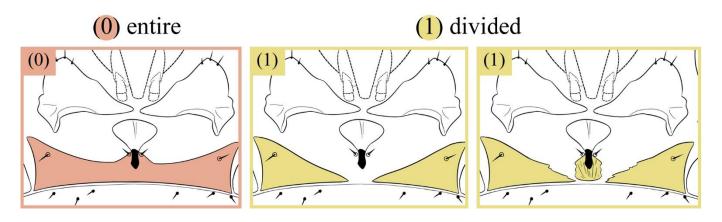
C55	C41	C80	C66	Mesosternum, spina: (0) absent; (1) present.
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## Mesosternum, spina:



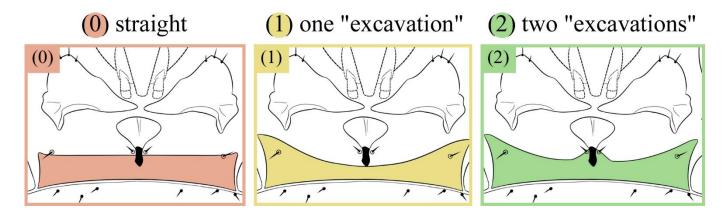
C56 C42 C81 C67 Mesosternum, mesopresternum, shape: (0) entire; (1) divided.	C56	5 C42 C81 C67
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## Mesosternum, mesopresternum, shape:



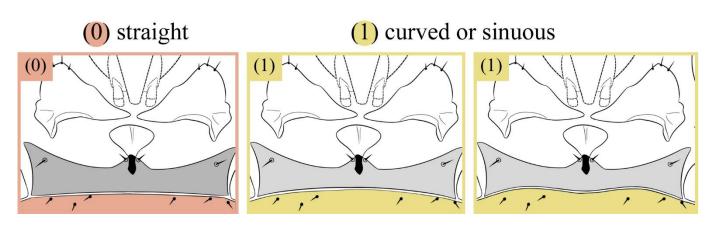
C57	C43	C82	C68	Mesosternum, mesopresternum, anterior margin (when entire): (0) straight; (1) one median "excavation"; (2) two "excavations" and with a median projection; (-) not applicable.
				(-) not applicable.

## Mesosternum, mesopresternum, anterior margin:



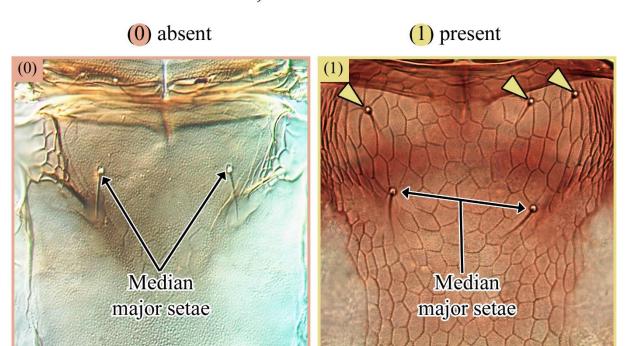
C58	-	C83	-	Mesosternum, major sternal plate, shape of anterior margin: (0) straight; (1) curved or sinuous.
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## Mesosternum, major sternal plate, shape of anterior margin:



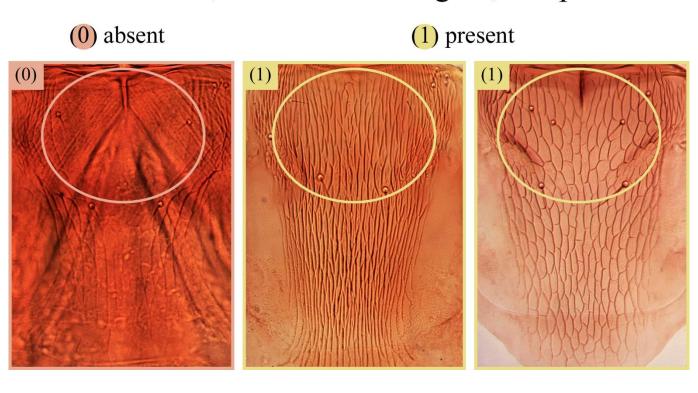
C59 C44 C84 C69 Metanotum, anterior discal setae: (0) absent; (1) present.

#### Metanotum, anterior discal setae:



C60 C45 C85 C70 Metanotum, anteromedian region, sculpture: (0) absent; (1) present.

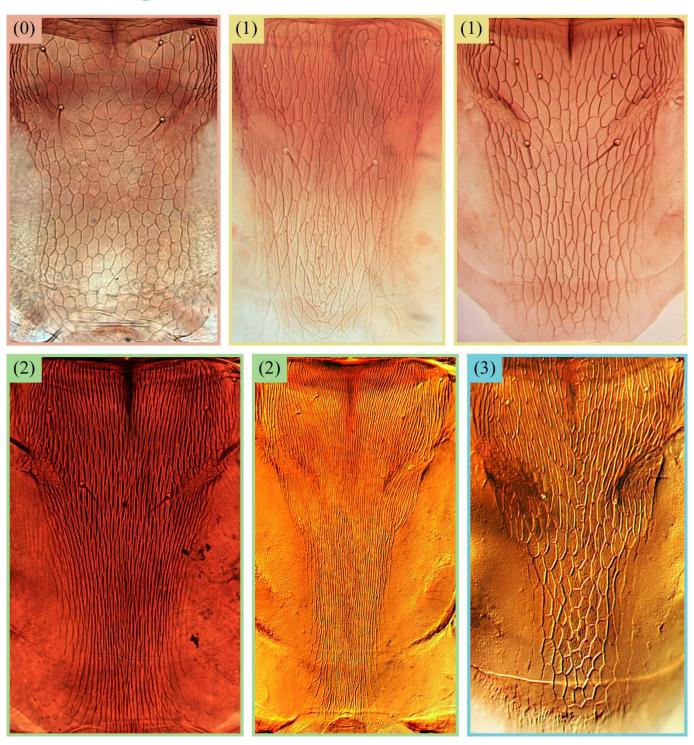
## Metanotum, anteromedian region, sculpture:



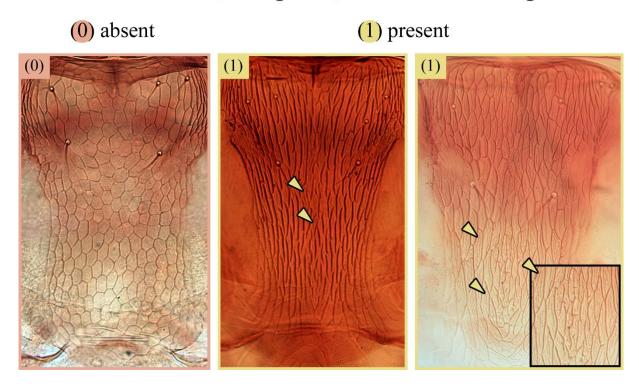
-	C46	-	C71	Metanotum, sculptured area, type of sculpture: (0) equiangular reticles; (1) longitudinally elongate reticles; (2) entirely longitudinally striate; (3) anterior half longitudinally striate, posterior half reticulate.
C61	-	C86	-	Metanotum, anteromedian region, type of sculpture: (0) equiangular reticles; (1) longitudinally elongated reticles; (2) longitudinally striate; (3) Transversely striate; (-) not applicable.

# Metanotum, sculptured area, type of sculpture:

(1) equiangular reticles
 (2) longitudinally striate
 (3) anterior half striate, posterior half reticulate

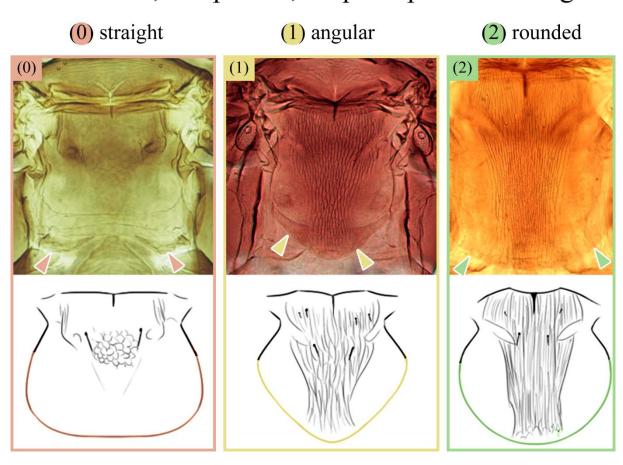


#### Metanotum, sculpture, internal markings:



C63 C48 C88 C73 Metanotum, craspedum, shape of posterior margin: (0) straight; (1) angular; (2) curved or rounded.

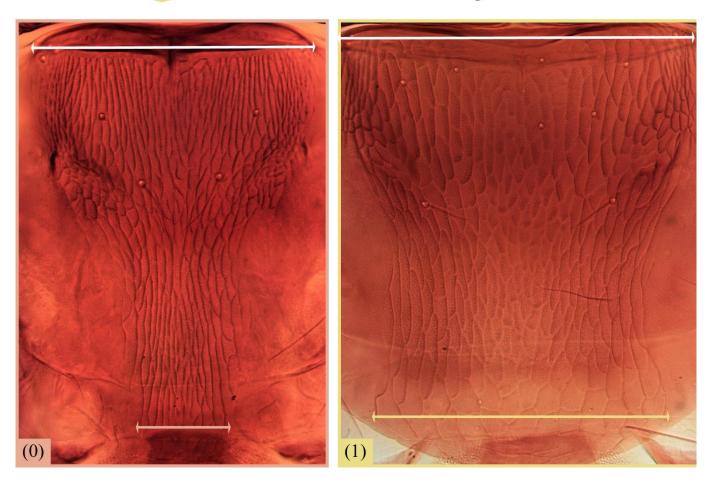
### Metanotum, craspedum, shape of posterior margin:



-	C49	_	C74	Metanotum, lateral limits of sculptured area, width on posterior area: (0) half of
				anterior margin width or less; (1) more than half of anterior margin width.

# Metanotum, lateral limits of sculptured area, width on posterior area:

- (0) half of anterior margin width or less
- (1) more than half of anterior margin width

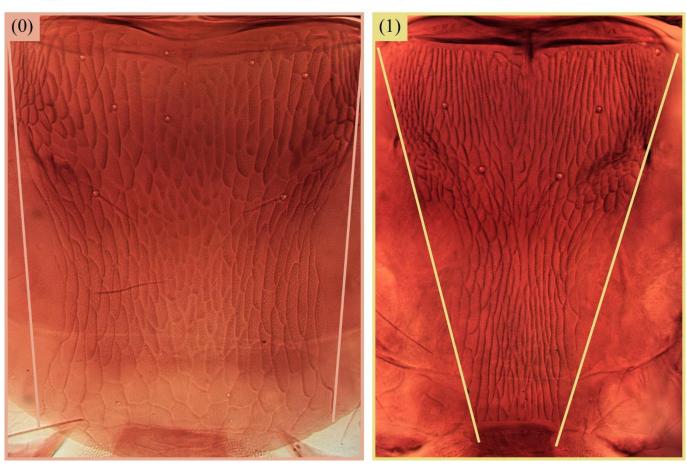


tapering towards posterior margin.		C64	-	C89	-	Metanotum, sculpture, lateral limits of sculpture area: (0) almost parallel; (1) tapering towards posterior margin.
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## Metanotum, sculpture, lateral limits of sculpture area:

(0) almost parallel

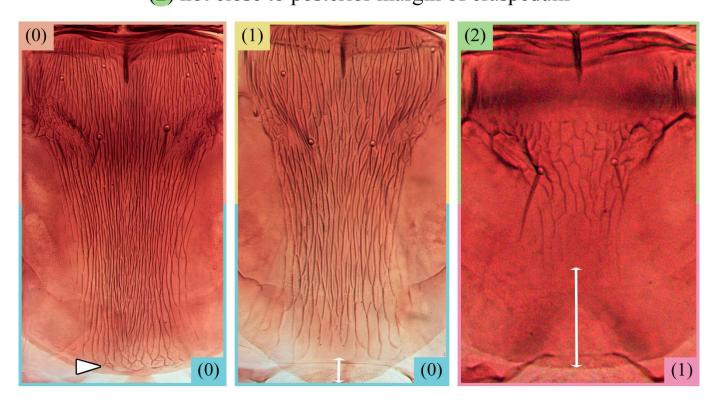
(1) tapering towards posterior margin



-	C50	-	C75	Metanotum, sculptured area, posterior limit: (0) sculpture close to or reaching posterior margin of craspedum; (1) sculpture distanced from posterior margin of craspedum.
C65	-	C90	-	Metanotum, sculpture, posterior limit of sculptured area: (0) reaching posterior margin of craspedum; (1) almost reaching posterior margin of craspedum, but not touching it; (2) not close to posterior margin of craspedum.

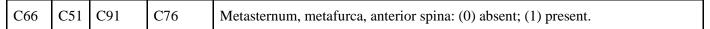
### Metanotum, sculpture, posterior limit of sculptured area:

- (0) reaching posterior margin of craspedum
- almost reaching posterior margin of craspedum, but not touching it
   not close to posterior margin of craspedum



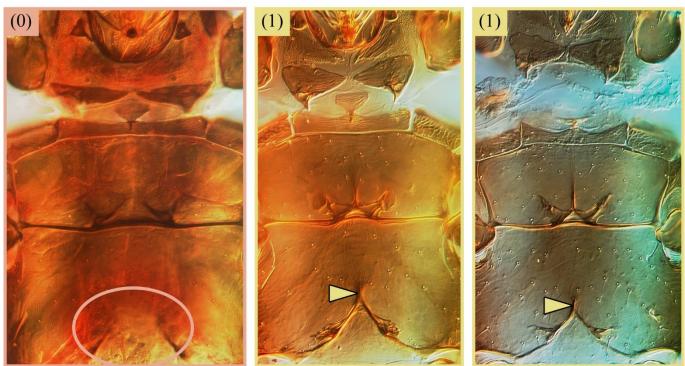
#### Metanotum, sculptured area, posterior limit:

sculpture close to or reaching posterior margin of craspedum
 sculpture distant from posterior margin of craspedum



# Metasternum, metafurca, anterior spina:

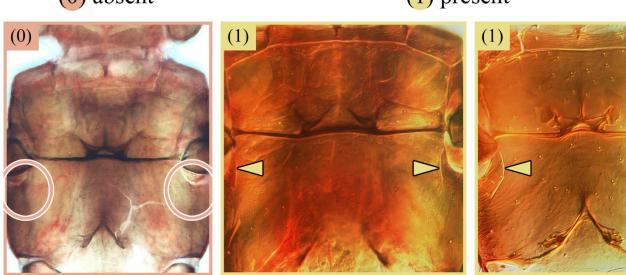




C67 C52 C92 C77 Metasternum, metapleural sutures: (0) absent; (1) present.

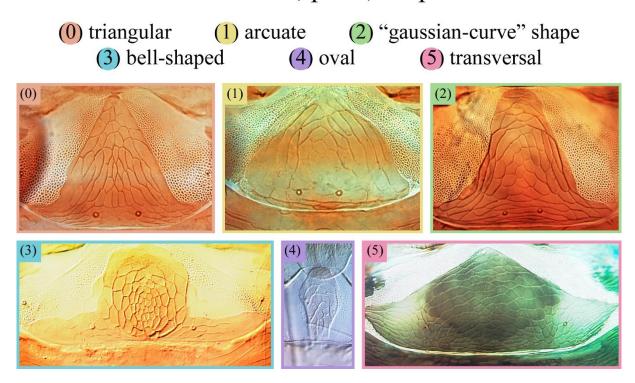
## Metasternum, metapleural sutures:





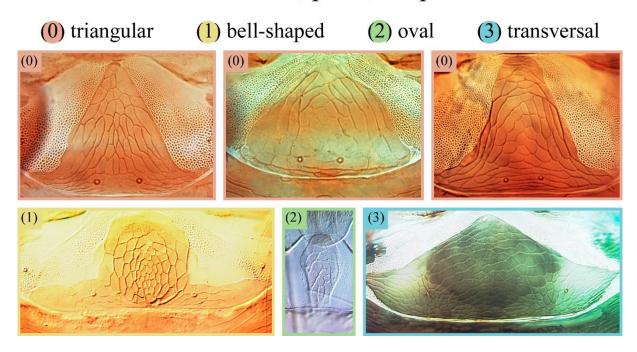
-	C53	-	C78	Abdomen, pelta, shape: (0) triangular, with all sides straight and subequal in length; (1) arcuate, with anterolateral margins rounded; (2) "gaussian-curve" shape, with anterolateral margins sinuous and wide base; (3) bell-shaped (constrict medially and with large basal wings); (4) oval (longer than wide); (5) transversal (much wider than long).
				transversal (much wider than long).
	-	- C53	- C53 -	- C53 - C78

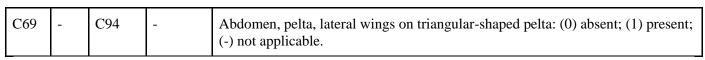
## Abdomen, pelta, shape:



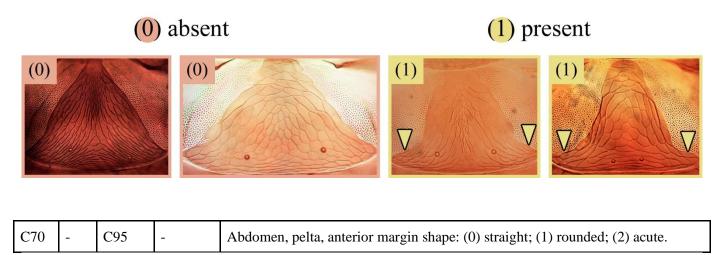
C68	-	C93	-	Abdomen, pelta, shape: (0) triangular (all sides subequal in length); (1) bell-shaped (constrict medially and with lateral wings basally); (2) oval (longer than wide, no median constriction nor lateral wings basally); (3) transversal (much wider than long).
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### Abdomen, pelta, shape:

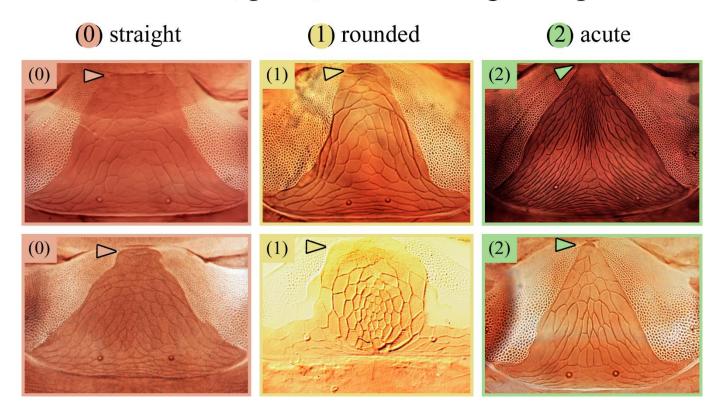




## Abdomen, pelta, lateral wings on triangular-shaped pelta:



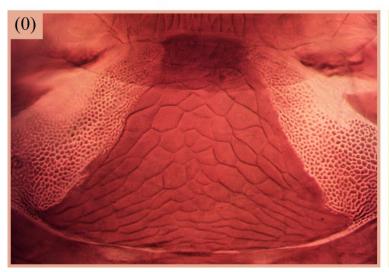
## Abdomen, pelta, anterior margin shape:

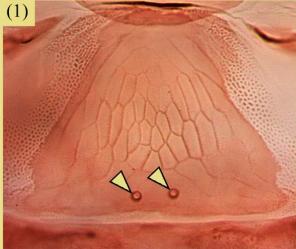


## Abdomen, pelta, campaniform sensilla:

(0) absent

(1) present



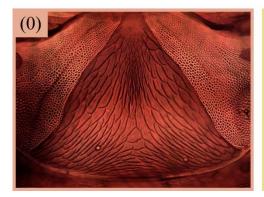


C72	C55	C97	Abdomen, pelta, area of occupation of sculpture: (0) covering the whole pelta; (1) present medially and/or anteriorly, but weak or absent posteriorly; (2) present on the margins, but weak or absent medially.
			on the margins, but weak or absent mediany.

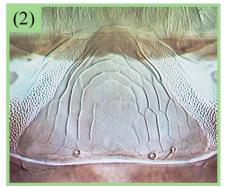
## Abdomen, pelta, area of occupation of sculpture:

(0) covering the whole pelta

present medially and/or anteriorly, but weak or absent posteriorly
 present on the margins, but weak or absent medially



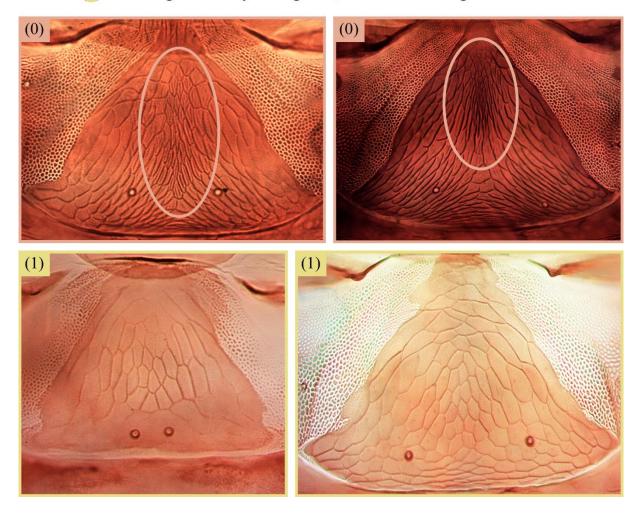




C73	C56	C98	C81	Abdomen, pelta, sculpture, shape of median reticles: (0) longitudinally elongated
				and smaller in relation to marginal reticles; (1) not longitudinally elongated, similar to marginal reticles.

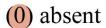
#### Abdomen, pelta, sculpture, shape of median reticles:

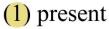
longitudinally elongated and smaller in relation to marginal reticles
 not longitudinally elongated, similar to marginal reticles

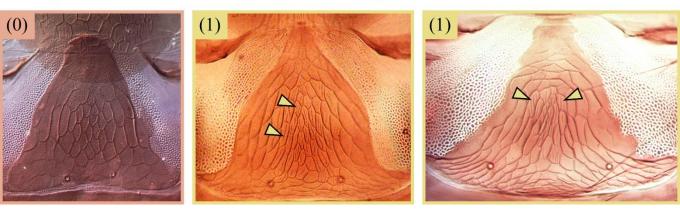


C74	C57	C99	C82	Abdomen, pelta, internal markings on sculpture: (0) absent; (1) present.
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## Abdomen, pelta, internal markings on sculpture:

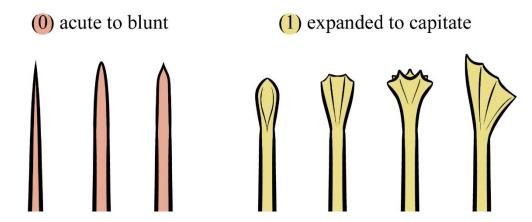






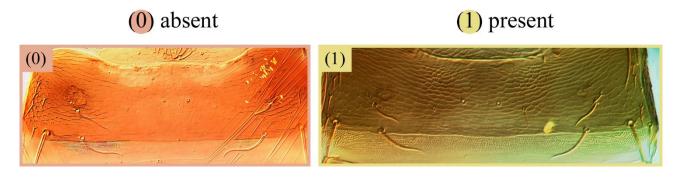
C75	C58 C100	C83	Abdominal tergite II, major posteroangular setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.
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#### Setae, shape of apex:



C76	C59	C101	C84	Abdominal tergite II, median area, sculpture: (0) absent; (1) present.
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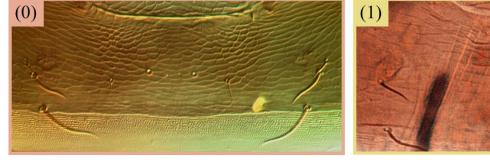
## Abdominal tergite II, median area, sculpture:



C77	C60	C102	C85	Abdominal tergite II, median area, type of sculpture: (0) reticulated, with equiangular or irregular reticles; (1) transverse lines; (-) not applicable.
C78	1	C103	-	Tergite II, sculpture, internal markings: (0) absent; (1) present.

### Abdominal tergite II, median area, type of sculpture:

(0) reticulated, with equiangular or irregular reticles(1) transverse lines





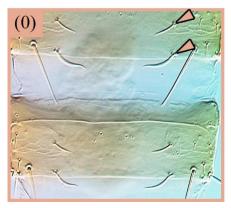
C79	C61	C104	Abdominal tergites II-VII, wing-retaining setae, number: (0) two or less pairs; (1) three pairs; (2) four or more pairs
			(1) three pairs; (2) four or more pairs

### Abdominal tergites II-VII, wing-retaining setae, number:

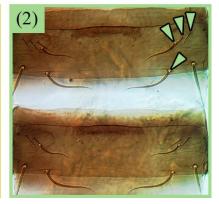
(0) two or less pairs

(1) three pairs

(2) four or more pairs





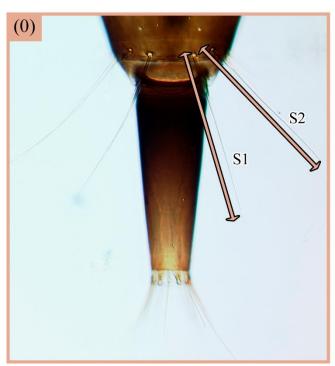


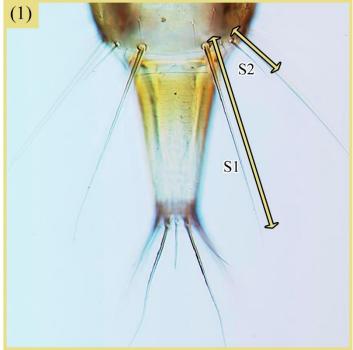
C80	C62	C105	C87	Abdominal tergite IX, setae S2, length in males: (0) similar or longer than setae S1; (1) distinctly shorter than setae S1; (-) not applicable.
C81	C63	C106	C88	Abdominal tergite IX, setae S3, length in males: (0) similar or longer than setae S1; (1) distinctly shorter than setae S1; (-) not applicable.

## Abdominal tergite IX, setae S2/S3, length in males:

(0) similar or longer than setae S1

(1) distinctly shorter than setae S1





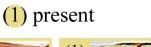
C82	C64	C107	C89	Abdominal tergite IX, setae S1, shape of apex: (0) acute to blunt; (1) expanded to capitate.
C83	C65	C108	C90	Abdominal tergite IX, setae S2, shape of apex: (0) acute to blunt; (1) expanded to capitate.

C84	C66	C109	C91	Abdominal sternite VIII, male pore plate: (0) absent; (1) present.
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# Abdominal sternite VIII, male pore plate:



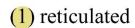


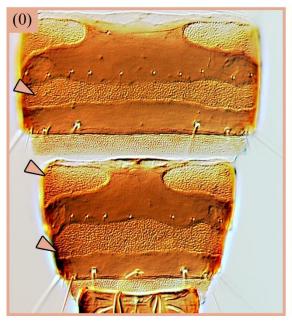


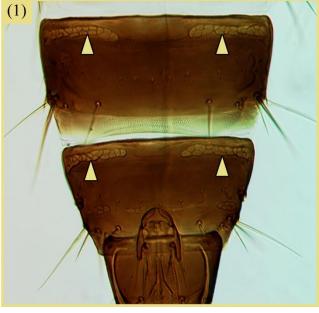
-	C67	1	C92	Abdominal sternite VIII, pore plate(s), reticulate texture: (0) absent; (1) present.
C85	-	C110	-	Sternites, male pore plates, gland texture: (0) punctuated; (1) reticulated; (-) not applicable.

## Sternites, male pore plates, gland texture:

#### (0) punctuated

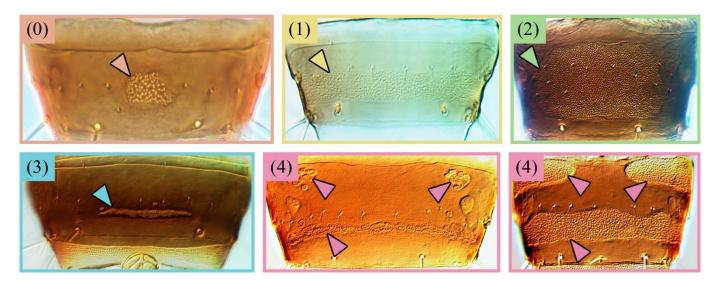






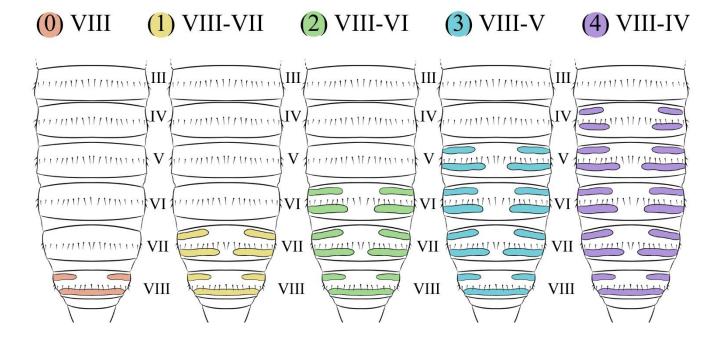
#### Abdominal sternite VIII, male pore plate, appearance:

- (0) circular, oval or irregular plate medially
- (1) wide transverse band
- (2) plate covering almost or all the sternite
- (3) thin transverse band
- (4) two anteroangular bands and one transverse band



C87	C69	C112	Abdominal sternites, occurrence of male pore plates: (0) VIII; (1) VIII-VII; (2)
			VIII-VI; (3) VIII-V; (4) VIII-IV; (-) not applicable.

## Abdominal sternites, occurrence of male pore plates:

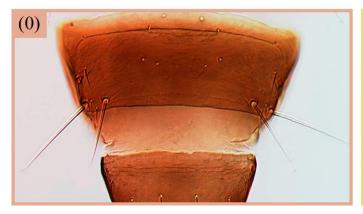


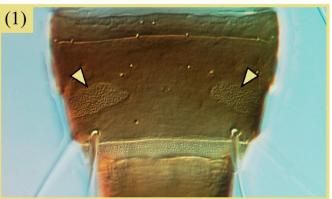
C88 C70 C113 C95 Abdominal tergite VIII, male pore plate: (0) absent; (1) present.

## Abdominal tergite VIII, male pore plate:

(0) absent





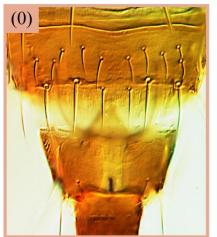


C89 C71 C114 C96 Abdominal segment IX, visible female spermatheca: (0) absent; (1) present.

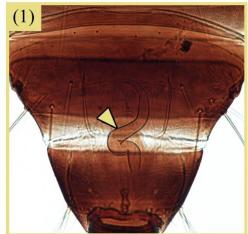
## Abdominal segment IX, visible female spermatheca:

(0) absent



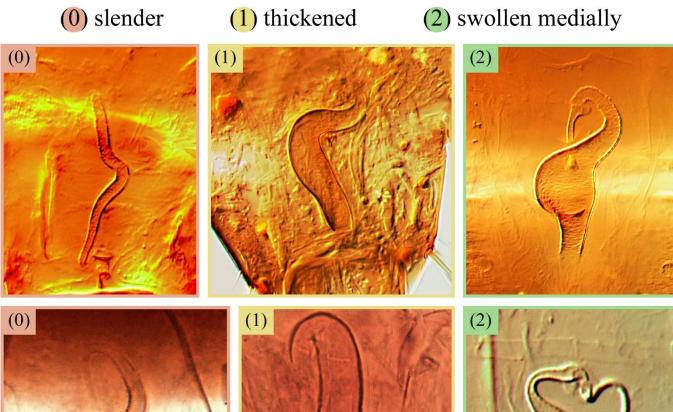


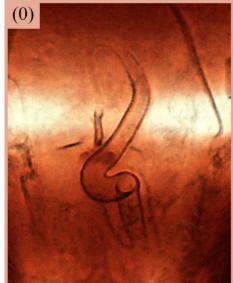




	12.5
micrometers of diameter); (1) thickened (more than 15 micrometers of but not swollen) (2) swollen medially (-) Not applicable.	f diameter,

# Abdominal segment IX, female spermatheca, shape:







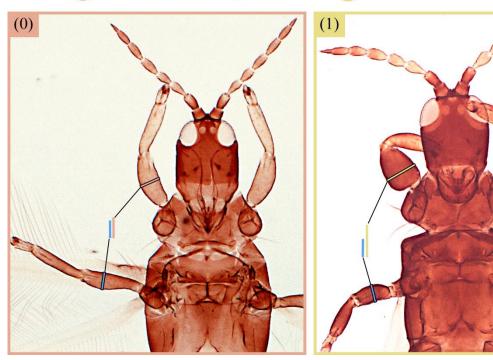


C9:	C73	C116	C98	Fore legs, femur, maximum width in relation to mid femur's maximum width (females): (0) at most 1.5x larger; (1) more than 1.5x larger.
C92	2 C74	C117	C99	Fore legs, femur, maximum width in relation to mid femur's maximum width (males): (0) at most 1.5x larger; (1) more than 1.5x larger.

# Fore legs, femur, maximum width in relation to mid femur's maximum width:

(0) at most 1.5x larger

(1) more than 1.5x larger

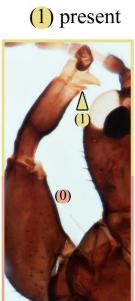


C93	C75	C118	C100	Fore legs, femur, tubercle: (0) absent; (1) present.
C94	C76	C119	C101	Fore legs, tibia, tubercle: (0) absent; (1) present.

## Fore legs, femur/tibia, tubercle:





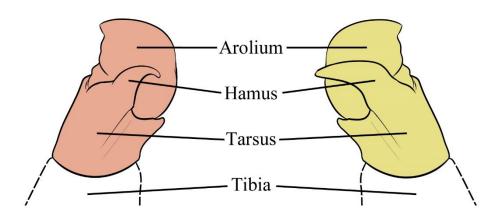




C95	C77	C120	Fore legs, ventral hamus, size: (0) small and thin, not strongly projected
			laterally; (1) large and thick, strongly projecting to the side.

#### Fore legs, ventral hamus, size:

(1) large and thick, projecting to the side

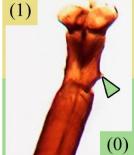


C96	C78	C121	C103	Fore legs, tarsal tooth in females: (0) absent; (1) present.
C97	C79	C122	C104	Fore legs, tarsal tooth in females, size: (0) small (length equal or less than half of basal width of tarsus); (1) enlarged (length more than half of basal width of tarsus).
C98	C80	C123	C105	Fore legs, tarsal tooth in males: (0) absent; (1) present.
C99	C81	C124	C106	Fore legs, tarsal tooth in males, size: (0) small (length equal or less than half of basal width of tarsus); (1) enlarged (length more than half of basal width of tarsus).

## Fore legs, tarsal tooth:

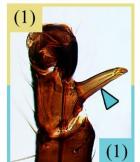






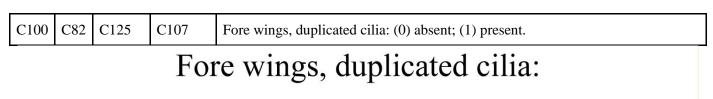






## Fore legs, tarsal tooth, size:

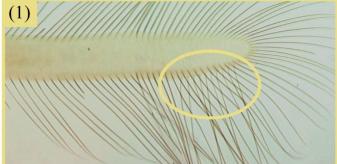
- (1) small (length equal or less than half of basal width of tarsus)
  - (1) enlarged (length more than half of basal width of tarsus)



(0) absent

(1) present



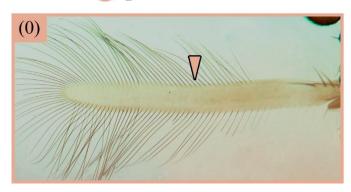


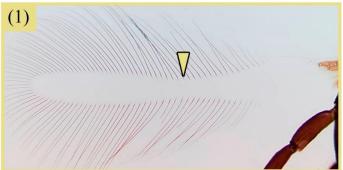
C101	C83	C126	C108	Fore wings, margins, shape: (0) parallel-sided; (1) constricted medially.
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## Fore wings, margins, shape:

(0) parallel-sided

(1) constricted medially



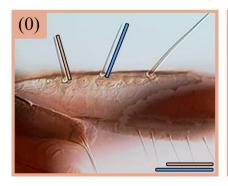


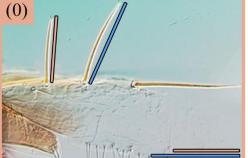
C102	-	C127	-	Fore wings, first pair of basal setae, size in relation to second pair: (0) shorter than pair 2; (1) sub equal or longer than pair 2; (-) not applicable.
		1		

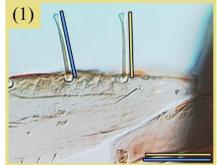
# Fore wings, first pair of basal setae, size in relation to second pair:

(0) shorter

(1) subequal or longer

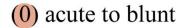


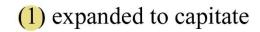


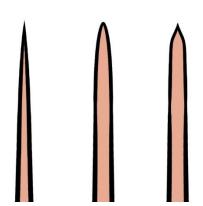


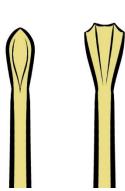
C103	C84	C128	C109	Fore wings, first pair of basal setae, shape of apex: (0) acute to blunt; (1) expanded to capitate.
				on parade to expresse.

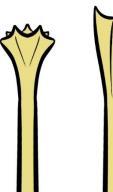
## Setae, shape of apex:













C104	C85	C129	C110

Fore wing clavus, sculpture on dorsal surface: (0) absent; (1) present.

## Fore wing clavus, sculpture on dorsal surface:

(0) absent

