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**THE PALAEARCTIC SPECIES OF THE GENUS
SCEPTONIA WINNERTZ
(DIPTERA:MYCETOPHILIDAE)**

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ABSTRACT. Descriptions, illustrations of the male genitalia and key to the Palaeartic species of the genus *Sceptonia* (Diptera, Mycetophilidae) are given and new distributional data are recorded.

KEYWORDS. Diptera, Mycetophilidae, *Sceptonia*, Palaeartic, key.

INTRODUCTION

This study is mainly based on the examination of the type specimens of the species. The types of *S.concolor* WINNERTZ and *S.nigra* (MEIGEN) which are probably lost, as well as *S.humeralis* EDWARDS are not seen. The examined materials of *S.pilosa* BUKOWSKI were compared by Dr.A.Zaitzev with specimens from Bukowski's collection in Sankt Petersburg which are very likely of the type serie, but are not labelled as types.

ABBREVIATIONS

The following abbreviations are used for the institutions in which materials is deposited:

- CUM — Cambridge University Museum, Cambridge,UK
DB — collection of the author
IRSN — Institut Royal des Sciences Naturelles de Belgique, Bruxelles
ITZ — Institut voor Taxonomische Zoologie, Amsterdam
MZUB — Museum of Zoology, University of Bergen, Bergen

NHM	—	Natural History Museum, London
OUM	—	Oxford University Museum, Oxford, UK
PJC	—	Peter J. Chandler, Meidenhead, UK
TAU	—	Tel Aviv University, Tel Aviv
ZSM	—	Zoologische Staatssammlung, München.

Genus *Sceptonia* WINNERTZ

Sceptonia WINNERTZ, 1863:907. Type species: *Mycetophila nigra* MEIGEN, 1804:92 (des. JOHANNSEN, 1909:113).

The genus *Sceptonia* belongs to the tribe Mycetophilini of subfamily Mycetophilinae. In having unbranched Cu vein of the wing *Sceptonia* is distinguished from *Dynatosoma*, *Epicyptha*, *Macrobrachius*, *Mycetophila*, *Phronia*, *Platurocypta* and *Trichonta*. In the following key *Sceptonia* is differentiated from the relative genera *Aspidionia*, *Platyprosthogyne* and *Zygomya*, which are also with unbranched Cu:

1. Tibia II at least with one ventral seta.....
.....*Zygomya* WINNERTZ
- Tibia II without ventral setae.....2
2. Costa produced at the apex of R5 or little beyond (by *S. collaris* Edw. at about 1/4 from distance between R5 and M1).....*Sceptonia* WINNERTZ
- Costa produced at about 1/2 from distance between R5 and M1 or more.....3
3. Mesoscutum with shiny, widge-shaped boss at anterior margin.....*Aspidionia* COLLESS
- Mesoscutum normal, without boss at anterior margin
.....*Platyprosthogyne* ENDERLEIN

The species belonging to the genus *Sceptonia* are very similar by external characters and their determination is possible at microscopic examination of male genital apparatus only. In view of that, the key is mainly based on the structure of the male genitalia.

Key to the Palaearctic species of *Sceptonia*

1. R5 as its width or little more removed from R1.....2
- R5 two or more times its width removed from R1.....6
2. Ventral part of gonostyle with great number fine long setae (Fig.1).....*intestata* PLASSMANN et SCHACHT
- Ventral part of gonostyle with a few very strong setae (Figs.3, 7).....3
3. Medial part of gonostyle longer than ventral part (Figs.3, 5).....4
- Medial part of gonostyle not longer than ventral part (Figs.7, 9).....5
4. Medial part of gonostyle considerably longer than ventral part (Fig.3). Abdomen entirely black.....

.....	<i>nigra</i> (MEIGEN)	
— Medial part of gonostyle not very longer than ventral part (Fig.5).Abdomen with yellow spots on first few tergites.....	<i>costata</i> (VAN DER WULP)	
5. With short appendage about apex of medial part of gonostyle (Figs.7,8).....	<i>membranacea</i> EDWARDS	
— With long appendage about middle of medial part of gonostyle (Figs.9,10).....	<i>cryptocauda</i> CHANDLER	
6. Mesoscutum with yellow humeral spots.....		7
— Mesoscutum entirely dark, without distinct yellow humeral spots.....		8
7. Ventral part of gonostyle with great number strong setae about medial margin (Fig.11).....	<i>humerala</i> EDWARDS	
— Ventral part of gonostyle without strong setae about medial margin, with basal lobe directed inside (Fig.13).....	<i>flavipuncta</i> EDWARDS	
8. Ventral part of gonostyle without distinct basal lobe directed inside (Figs.17,18).....		9
— Ventral part of gonostyle with more or less distinct basal lobe (Figs.21,22).....		11
9. Medial part of gonostyle slender, prolonged (Figs.15,16).....	<i>pughi</i> CHANDLER	
— Medial part of gonostyle not prolonged.....		10
10. Ventral part of gonostyle — Fig.17.....	<i>concolor</i> WINNERTZ	
— Ventral part of gonostyle - Fig.18.....	<i>regni</i> CHANDLER	
11. Ventral part of gonostyle with great number short strong setae (Figs.19,21).....		12
— Ventral part of gonostyle without short strong setae.....		13
12. Medial part of gonostyle on the end branched (Fig.19).....	<i>tenuis</i> EDWARDS	
— Medial part of gonostyle on the end unbranched (Fig.21).....	<i>pilosa</i> BUKOWSKI	
13. Medial part of gonostyle prolonged, on the end round (Fig.22).....	<i>fumipes</i> EDWARDS	
14. Palpi dark. Gonostyle — Figs.23,24.....	<i>fuscipalpis</i> EDWARDS	
— Palpi yellowish. Gonostyle — Fig.25.....	<i>demeijerei</i> BECHEV	

***Sceptonia concolor* WINNERTZ**

Sceptonia concolor WINNERTZ, 1863:13. *Sceptonia concolor* WINNERTZ: EDWARDS, 1925:646, Figs.167,168.

Male: Wing length 2,5 mm. Head and thorax black. Scape, pedicel and flagellum of antennae black brown. Palpi yellowish. Legs yellowish except dark apical part of hind femur and brownish tarsi. R5 about three times its width removed from R1. Abdomen black. Gonostyle — Fig.17.

Material examined: GREAT BRITAIN: Sussex, Crowborough, 6-11.X.1906, 1 male (F.Jenkinson) (CUM).

Sceptonia costata (VAN DER WULP)

Mycetophila costata VAN DER WULP, 1858:182. *Sceptonia costata* VAN DER WULP: EDWARDS, 1925:646, Figs. 164-166.

Malc: Wing length 2,4 mm. Head and thorax black. Antennae dark brown, scape and pedicel yellowish. Palpi yellowish. Legs yellowish except hind coxa darkened in basal third, blackish apical half of hind femur and tarsi brownish. Mid tibia with 1pv, 2a, 3d; hind with 6-7a, 3d. R5 removed from R1 about its width. Abdomen black brown, with yellow markings at sides and posterior margins of first few segments. Gonostyle — Figs. 5,6).

Material examined: HOLOTYPE, female, Drieb. [=Driebergen, NETHERLANDS], 10 Six (ITZ); NETHERLANDS: Halversum, 11.X.03, 1 male (de Meijere) (ITZ); GREAT BRITAIN: Scotland, Inverness, 17.IX.1989, 1 male (P. Chandler) (PJC); NORWAY: Sveio Forde, 22-28.X.1990, 6 males (Kjaerendsen) (MZUB).

Sceptonia cryptocauda CHANDLER

Sceptonia cryptocauda CHANDLER, 1991:151, Figs. 24-26.

Malc: Wing length 2,3 mm. Head and thorax black. Antennae brown, scape and pedicel yellow. Palpi yellow. Legs yellow except hind coxae black at base and hind femur black on apical half. Mid tibia with 1pv, 2a, 3d; hind with 6a, 3d. R5 little more than its width removed from R1. Abdomen black but tergites I-III more or less broadly yellow at side margins, this color extended dorsally along sutures as triangular markings. Gonostyle - Figs. 9, 10.

Material examined: HOLOTYPE, male, IRELAND, Roscommon, Lough Key Forest Park, 28.IX.1977 (P. Chandler) (PJC); PORTUGAL: Sintra Mts., 11.VIII.1972, 1 male (A. Hutson) (PJC); BULGARIA: Vrachanska Mts., Ledenika, 1.IV.1983 1 male and 3.IX.1983, 1 male (DB); GREECE: Corfu, 25.VI.1976, 2 males (J. Ismay) (PJC); ISRAEL: Tel-Dan, 26.VI.1974, 7.VIII.1974 and 27.VIII.1981, 27 males (A. Freidberg) and Banyas, 1.VII.1986, 4 males (G. Edler) (TAU).

Sceptonia demejerei BECHEV (in press)

Male: Wing length 1,9 mm. Head and thorax entirely shining black. Antennae, scape and pedicel dark brown. Palpi yellowish. Legs yellow except dark near basal margin hind coxa, blackish apical third of hind femur and brownish tarsi. Mid tibia with 1pv, 2a, 3d; hind with 6-7a, 3d. Wing yellowish, R5 about three times its width removed from R1. Halteres yellow. Abdomen entirely black, shining. Male genitalia — Fig. 25.

Material examined: HOLOTYPE: male, NETHERLANDS: Hilversum, 10.V.08 (de Meijere) (ITZ). ALLOTYPES: NETHERLANDS: 1 female, Hilversum, 20.V.08; 1 female, Hilversum, 22.VII.09; 1 female, Hilversum, 9.VII.05; 1 female, Hilversum, 15.IX.07 (de Meijere) (ITZ).

Sceptonia flavipuncta EDWARDS

Sceptonia flavipuncta EDWARDS, 1925:647, Figs. 174, 175.

Male: Wing length 2,8 mm. Head and thorax entirely black brown, only with small yellow humeral spots. Antennae brown, scape and pedicel yellow. Legs yellow except hind femur dark on apical third. Mid tibia with 1pv, 2a, 3d; hind with 6-7a, 3d. R5 about three-four times its width removed from R1. Abdomen entirely black brown. Gonostyle — Figs. 13, 14.

Material examined: HOLOTYPE: male, GREAT BRITAIN: Mildenhall, Suffolk, 24.V.1909 (Yerbury) (NHM); GREAT BRITAIN: Berks, Old Wiindros Wd., 2.VI.1977, 1

male (P.Chandler) (PJC); CROATIA: Plitvice Lakes, 23.IX.1987, 1 male (A.Stubbs) (PJC); BULGARIA: Vesletz Mts., 20.VII.1982, 3 males and 8.IV.1983, 1 male (D.Bechev) (DB).

Sceptonia fumipes EDWARDS

Sceptonia fumipes EDWARDS, 1925:647, Figs.176,177.

Male: Wing length 2,5 mm;. Head and thorax dark brown to black. Antennae, scape and pedicel dark. Legs yellowish except mid femur darkened at ventral margin, hind femur darkened at apical half and tarsi brownish. Mid tibia with 1pv, 2a, 3d; hind with 7-8a, 3d. R5 about three times its width removed from R1. Abdomen entirely black brown. Gonostyle - Fig.22.

Material examined: HOLOTYPE: male, GREAT BRITAIN: Tottington, Nor-folk, 21.V.1909 (NHM); EIRE: Wicklow, Glendalough, 24.V.1970, 1 male (P.Chandler) (DB); NETHERLANDS: Halversum, VI.02, 1 male and 23.V.09, 1 male (de Meigere) (IRSN); NORWAY: SFI: Luster, Jostendalen, Fabergstolsgranade, 26.VI.-12.VII.1988, 1 male (G.Söli) and UE: Tjome, Hulebekk, 10.VII.1985, 2 males (A.Fjeldsa) (MZUB).

Sceptonia fuscipalpis EDWARDS

Sceptonia fuscipalpis EDWARDS, 1925:647, Figs.171-173.

Male: Wing length 2,5 mm. Head and thorax black brown to black. Palpi dark. Antennae, scape and pedicel dark brown. Legs yellowish except hind femur darkened in apical third. Mid tibia with 1pv, 2a, 3d; hind with 6-7a, 3d. R5 about three-four times its width removed from R1. Abdomen entirely black brown. Gonostyle — Figs.23,24.

Material Examined: HOLOTYPE: male, GREAT BRITAIN: New Forest, X.1904 (D.Sharp) (NHM); GREAT BRITAIN: Scotland, Aberdeen, Clen tanar, 2.VIII.1975, 1 male (P.Chandler) and Wales, Cwent, Black Cliff, 9.VII.1986, 1 male (P.Chandler) (PJC); NORWAY: HES: Eioskog, Nystuen, 26.VI.-16.VIII.1990, 2 males (T.Andersen) (MZUB).

Sceptonia humerella EDWARDS

Sceptonia humerella EDWARDS, 1941:82, Figs.9,j,k,l.

Male: Wing length 2,4 mm. Head dark brown. Mouthparts and palpi yellow. Scape and pedicel yellow, flagellum of antennae brownish. Mesoscutum dark brown with yellow humeral spots. Pleurae brown to yellow brown. Legs yellowish except hind femur darkened in apical third and tarsi brown. Mid tibia with 1pv, 2a, 3d; hind with 7a, 3d. R5 at tip almost two times its width removed from R1. Abdomen dark brown with mainly yellowish first segment. Gonostyle - Figs. 11,12.

Material examined: GREAT BRITAIN: Sussex, Crowborough, 25.VIII.1915, 1 male (F.Jenkinson) (PJC); BULGARIA: Vrachanska Mts., Ledenika, 8.VI.1984, 1 male and v.Karash, 9.VII.1988, 2 males (D.Bechev) (DB).

Sceptonia intestata PLASSMANN et SCHACHT

Sceptonia intestata PLASSMANN et SCHACHT, 1990:150, Figs. 2,3. *Sceptonia curvisetosa* CASPERS, 1991:334, Figs. 24-29.

Male: Wing length 2,5 mm. Head brown. Scape, pedicel and basal part of first flagellomere yellowish brown, rest flagellomeres darker brown. Palpi yellow. Thorax

brown, mesoscutum with extensive yellow humeral areas and small yellow back margin. Legs yellow, apical third of hind femur dark brown and hind coxae dark at the base. Mid tibia with 1pv, 2a, 3d; hind with 7a, 3d. R5 little more its width removed from R1. Abdominal tergites 1-3 yellow with dark brown dorsal parts. Tergite 4 dark with small lateral yellow patches, rest tergites entirely dark brown. Gonostyle - Figs. 1, 2.

Material examined: PARATYPE: male, SPANIEN, Prov. Cadiz, Hozgarganta-Tal, E Puerto d Galiz, 500 m, 12.IV.1985 (W.Schacht) (ZSM); GREECE: Portavia, 15.VI.1979, 1 male (H.Malicky) (paratype of *S.curvisetosa*) (ZSM); Mont Olympe, Litochoron, 18-20.VII.1953, 1 male (E.Janssens & R.Tollet) (IRSN); Corfu, Dry gorge north of Ag. Deka, 11.V.1980, 1 male (I.F.G.Mc Lean); Corfu, Ag. Deka-Benitses, 11.V.1980, 1 male (I.F.G.Mc Lean); Cephalonia, Kato Katelios, Dry gorge, 16.V.1981, 1 male (I.F.G.Mc Lean); Fokis, Delfi, 5.V.1979, 1 male (A.E.Stubbs) (PJC); TURKEY: Marmaris, 4.VII.91, 1 male and 1 female (Söli) (MZUB); ISRAEL: Tel-Dan, 26.VI.1974, 1 male (A.Freidberg) (TAU).

Sceptonia membranacea EDWARDS

Sceptonia membranacea EDWARDS, 1925: 646, Figs. 160-163.

Male: Wing length 2,3 mm. Head and thorax black. Antennae dark with yellow scape and pedicel. Legs yellow except hind coxae darkened at base and hind femur black in apical half. Mid tibia with 1pv, 2a, 3d; hind with 6-7a, 3d. R5 as its width removed from R1. Abdomen dark; tergites 1-3 with yellowish ventral and distal margins; tergite 4 with yellowish ventral margin. Gonostyle - Figs. 7, 8.

Material examined: HOLOTYPE: male, GREAT BRITAIN: Sherwood Forest, 22-24.IX.1922 (F.W.Edwards) (NHM); NETHERLANDS: Hilversum, 1.X.08, 1 male (de Meijere) (IRSN); BULGARIA: Vesletz Mts., 20.VII.1982, 34 males and Rhodopi Mts., v.Hrabrino, 5.VII.1990, 17 males (D.Bechev) (DB); GREECE: Crete, Kan-danos, 9.VII.1981, 1 male (A.Freidberg) (TAU); TURKEY: Marmaris, 4.VII.91, 51 males and 48 females (Söli) (MZUB).

Sceptonia nigra (MEIGEN)

Mycetophila nigra MEIGEN, 1804: 92. *Sceptonia nigra* (MEIGEN, 1804): EDWARDS, 1925: 646, Figs. 158, 159. *Mycetophila nitida* MEIGEN, 1830 = *Sceptonia nigra* (MEIGEN, 1804): EDWARDS, 1924: 16.

Male: Wing length 2,2 mm. Head and thorax black, shining. Scape and pedicel yellow brown, flagellum black brown. Palpi yellowish. Legs yellowish except hind coxae dark at base, hind femur black in apical half or third and tarsi brownish. Mid tibia with 1pv, 2a, 3d; hind with 6-7a, 3d. R5 about its width removed from R1. Abdomen black. Gonostyle — Figs. 3, 4.

Material examined: NETHERLANDS: Ommen, 16.VI.21, 1 male (de Meijere) (IRSN); NORWAY: Sveio Forde, 22-28.X.1990, 11 males (J.Kjaerandsen), Karl-svik, 26.V.1985, 1 male (A.Fjeldsa) and Porsgrunn, Brevik, Dammane, 27.VI.-12.VII.88, 1 male (G.Söli) (MZUB); BULGARIA: Vrachanska Mts., Ledenika, 3.IX.1983, 2 males (D.Bechev) (DB).

Sceptonia pilosa BUKOWSKI

Sceptonia pilosa BUKOWSKI, 1934: 192, Fig. 18.

Male: Wing length 2,6 mm. Head black. Scape and pedicel yellowish, flagellum black brown. Palpi yellowish. Mesoscutum black to black brown, pleurae dark brown. Legs yellowish except tarsi brownish and apical fourth of hind femur dark. Mid tibia with 1pv, 2a, 3d; hind

with 6-8a,3d. R5 two times its width removed from R1. Abdomen black. Gonostyle — Fig. 21.

Material examined: GREAT BRITAIN: Avon, Weston Wood, 16.X.1986, 1 male (K.Merrifield) (PJC); CROATIA: Plitvice Lakes, 22 and 24.IX.1987, 2 males (A.E.Stubbs) (PJC); BULGARIA: West Stara planina Mts.:v.Barziya, 26.VI.1984, 1 male and m.h.Biyalata voda, 10.VII.1982, 5 males (D.Bechev) (DB).

Sceptonia pughi CHANDLER

Sceptonia pughi CHANDLER, 1991:152, Figs.27-30.

Male: Wing length 2,0 mm. Head black. Antennae dark brown, scape and pedicel little lighter. Palpi brown to brownish yellow. Thorax black or black brown with yellow humeral area. Legs yellow except apical half or a little more of hind femur blackish. Mid tibia with 1pv, 2a, 3d; hind with 6-8a, 3d. R5 about three times its width removed from R1. Abdomen black. Gonostyle — Figs. 15,16.

Material examined: HOLOTYPE: male, GREAT BRITAIN, labelled „Dolgelly, 13.6.87“, i.e. Wales, Gwynedd (Merioneth), Dolgellay, 13.VI.1887 (G.H.Verrall) (OUM); PARATYPE: male, FRANCE, Lot, south of Labastide-Murat, shaded track at edge of meadow, 24.VI.1980 (P.J.Chandler) (PJC); BULGARIA: West Stara planina Range, v. Dalgi del, 24.VII.1983, 1 male (D.Bechev) (DB).

Sceptonia regni CHANDLER

Sceptonia regni CHANDLER, 1991:152, Figs.31-34.

Male: Wing length 2,0 mm. Head and thorax entirely black. Scape, pedicel and flagellum of antennae dark brown. Palpi dark brown. Legs yellow except hind coxa blackish near basal margin and hind femur blackish on almost apical half. Mid tibia with 1pv, 1a, 3d; hind with 6a, 3d. R5 about three times its width removed from R1. Abdomen entirely black. Gonostyle — Fig.18.

Material examined: HOLOTYPE: male, GREAT BRITAIN, Sussex, Crowborough, 14-25.VII.1912 (F.Jenkinson) (CUM).

Sceptonia tenuis EDWARDS

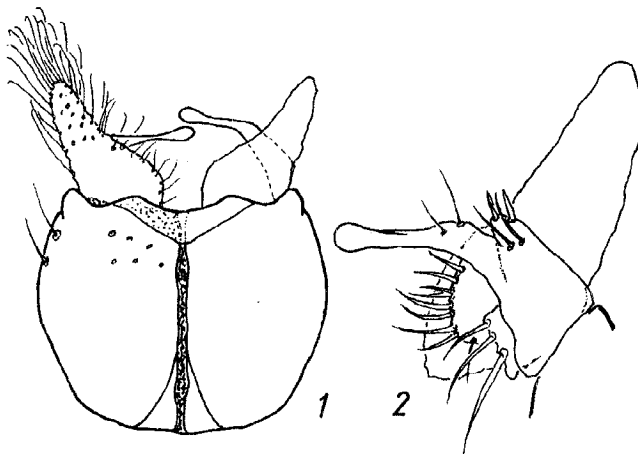
Sceptonia tenuis EDWARDS, 1925:647, Figs.169,170.

Male: Wing length 2,3 mm. Head and thorax dark brown. Scape and pedicel yellow, flagellum brown. Legs yellow except hind femur darkened in apical third and tarsi brown. Mid tibia with 1pv, 2a, 3d; hind with 8a, 3-4d. R5 about three times its width removed from R1. Abdomen entirely dark brown. Gonostyle — Figs.19,20.

Material examined: HOLOTYPE: male, GREAT BRITAIN, Dowerry, Corn-wall, 8.IX.1912 (Yerbury) (NHM); BULGARIA: Vrachanska Mts., Parshe-vitsa, 17.VII.1983, 2 males (D.Bechev) (DB); GREECE: Corfu, Dry gorge north of Ag.Deka, 11.V.1980, 1 male (I.F.G.McLean) (PJC).

Acknowledgements

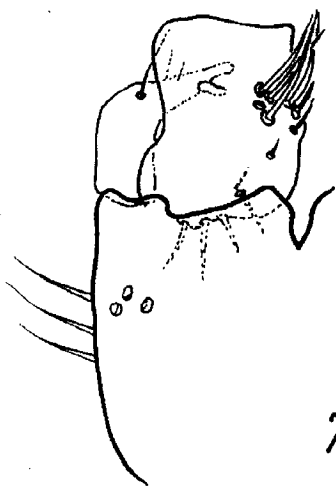
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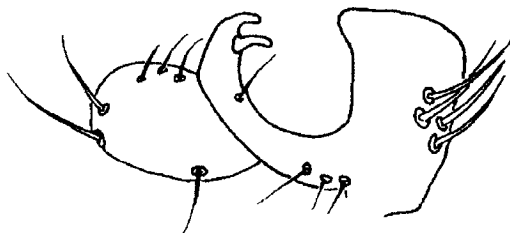
Figs.1-2. *S.intestata*:1 — male genitalia, ventral view; 2 — gonostyle, dorsal view.



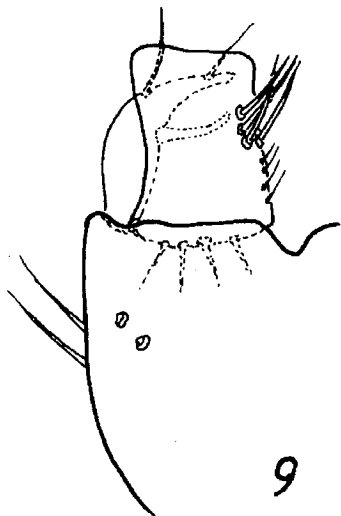
Figs.3-6. Male genitalia: 3 — *S.nigra*, ventral view; 4 — *S.nigra*, gonostyle, lateral view; 5 — *S.costata*, ventral view; 6 — *S.costata*, gonostyle, lateral view (dp-dorsal part of gonostyle, vp-ventral part, mp-medial part).



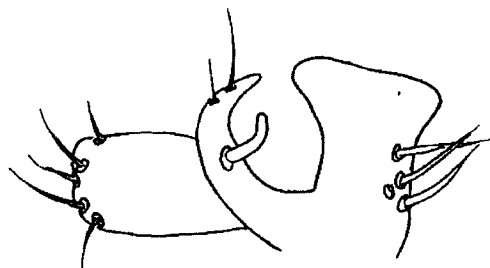
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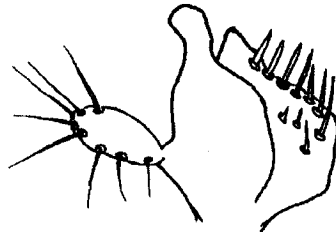


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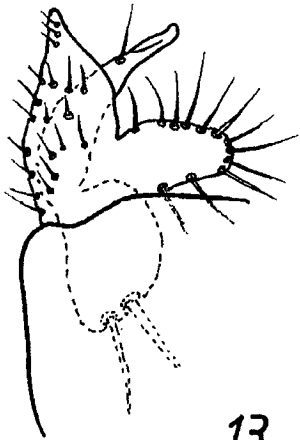
Figs.7-10. Male genitalia: 7 — *S.membranacea*, ventral view; 8 — *S.membranacea*, gonostyle, lateral view; 9 — *S.cryptocauda*, ventral view; 10 — *S.cryptocauda*, gonostyle, lateral view.



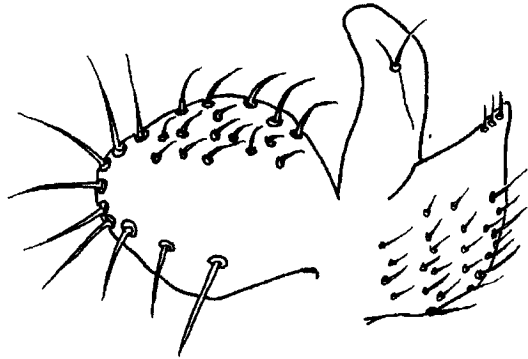
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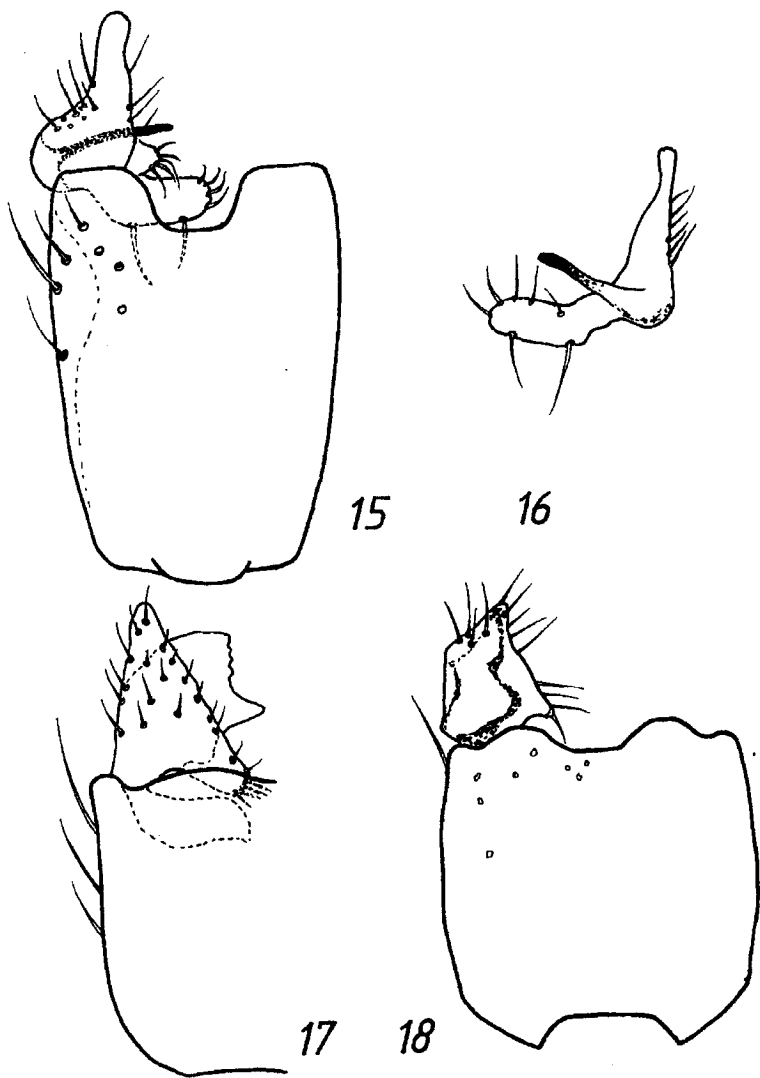


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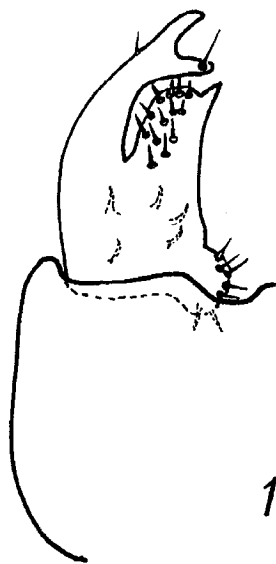


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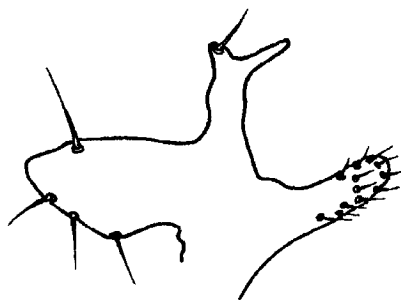
Figs. 11-14. Male genitalia: 11 — *S. humerella*, ventral view; 12 — *S. humerella*, gonostyle, lateral view; 13 — *S. flavipuncta*, ventral view; 14 — *S. flavipuncta*, gonostyle, lateral view.



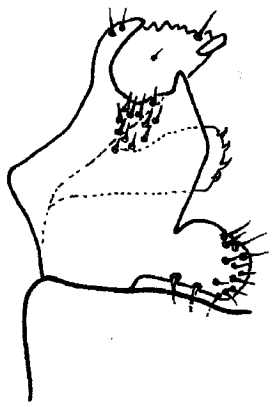
Figs. 15-18. Male genitalia: 15 — *S. pughi*, ventral view; 16 — *S. pughi*, gonostyle, lateral view; 17 — *S. concolor*, ventral view; 18 — *S. regni*, ventral view.



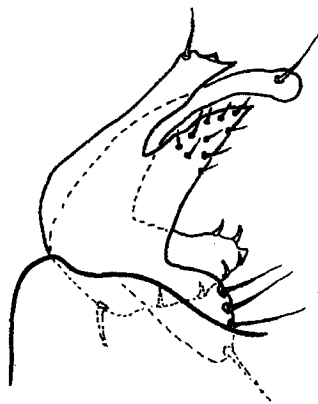
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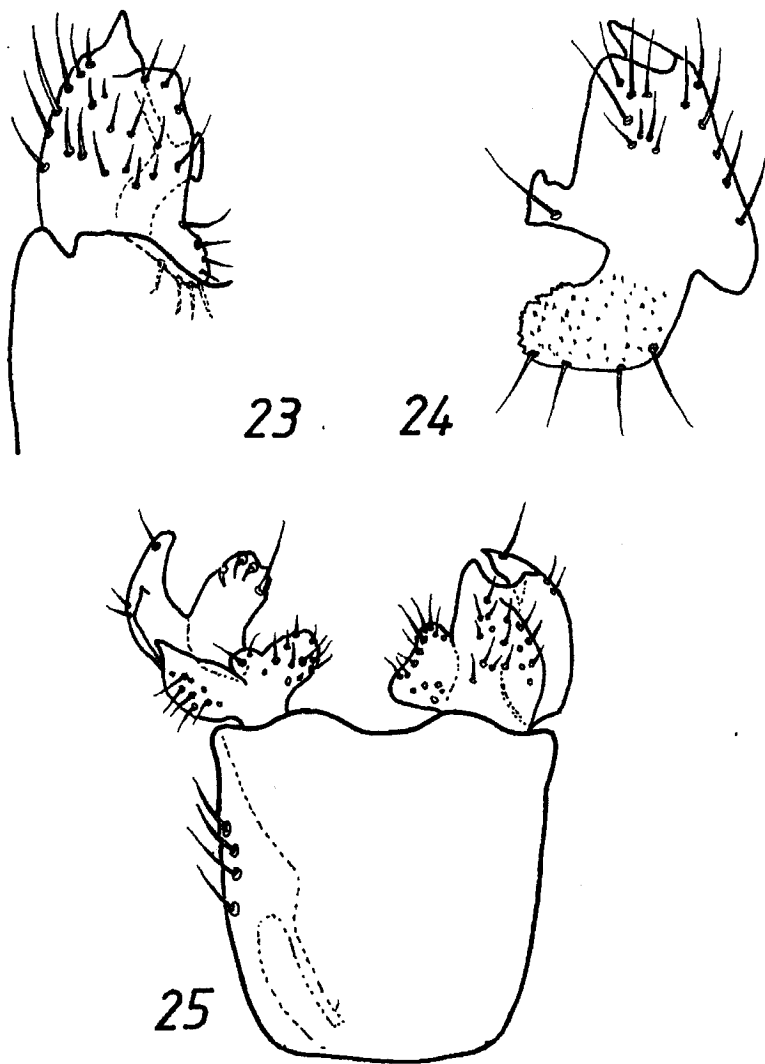


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Figs.19-22. Male genitalia: 19 — *S.tenuis*, ventral view; 20 — *S.tenuis*, gonostyle, lateral view; 21 — *S.pilosa*, ventral view; 22 — *S.fumipes*, ventral view.



Figs.23-25. Male genitalia: 23 — *S.fuscipalpis*, ventral view; 24 — *S. fuscipalpis*, gonostyle, laterodorsal view; 25 — *S.demeijerei*, ventral view.

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ПАЛЕАРКТИЧНИТЕ ВИДОВЕ ОТ РОД
SCEPTONIA WINNERTZ
(DIPTERA, MUSCOPHILIDAE)

Димитър Н. Бечев

(Резюме)

Описания, детайлни рисунки на мъжкия генитален апарат и определителна таблица на палеарктичните видове от род *Sceptonia* са направени главно въз основа изследване на типовите им екземпляри. Получени са много нови данни за географското разпространение на видовете. Направена е определителна таблица за разграничаване на близките по морфология до *Sceptonia* родове.