

Supplement 1

List of abbreviations used in text and illustrations (with some explanations)

Head

ata anterior tentorial arm
atb anterior tentorial bridge
atp anterior tentorial pit
car cardo of maxilla
cap circumantennal pit
capb bottom of circumantennal pit
capd sharp dorsal edge of circumantennal pit
cc coronal cleavage line
cpe compound eye
ct corpotentorium
fc frontal cleavage line
fl flagellum (flagellomeres numbered from base as **fl1** etc.)
li lacinia
lp labial palpus (**I–III**: palpomeres)
md mandible [right **md^r**, left **md^l**] (**I–IV**: tip and incisivi)
me meriston (growth zone) of antennal flagellum
mo mola of mandible
mp maxillary palpus (**I–V**: palpomeres)
pc pedicellus
pta posterior tentorial arm
sc scapus
sc-pc scapus-pedicellus articulation
scex dorsal excavation at distal end of scapus
s-chA field of sensilla chaetica A
s-cpf row of sensilla campaniformia
sti stipes of maxilla
tp tentorial perforation

Thorax (except for legs)

fwar forewing articulation area
hw hindwing
hwar (reduced) hindwing articulation area
N thoracic notum (**N1** pro-, **N2** meso-, **N3** metanotum)

Legs

as apical spines of tibia (= terminal spines **Tt1–5** plus distidorsal spine **Td1m** [mid- and hindleg] and **Td1a** [foreleg])
co coxa
colb coxal lobelet
dft dorsal fold on apical margin of tibia
ds dorsal spines of tibia (= dorsal spines **Td** but excluding **Td1m** [mid- and hindleg] and **Td1a** [foreleg])
fane anteroventral edge flanking femoral groove
fe femur
fegr ventral groove of femur
fpoe posteroventral edge flanking femoral groove
gs genicular spine of femur
itts intertibiotalar sclerite, a small sclerite between tibia and tarsus
pdta posterodorsal tibiotarsal articulation
ptar arolium of pretarsus
ptcl claws of pretarsus

ta1–5 tarsomeres 1–5
tc trochanter
Td dorsal spine of tibia (+ number + lower case letter, e.g. **Td3p**)
Td1m distidorsal spine of tibia
ti tibia
tiaa anterior articulation of tibia with femur
tiap posterior articulation of tibia with femur
tivt ventral basal tendon of tibia
Tt1–5 terminal spines of tibia (= apical spines **as** but excluding **Td1m** [mid- and hindleg] and **Td1a** [foreleg])
Tv ventral spine of tibia (+ number + lower case letter, e.g. **Tv3a**)
Tv1a distiventral spine of tibia
vs ventral spines of tibia (= ventral spines **Tv**)

Abdomen (except for genitalia)

[*n* is a placeholder for a sequential number if this is not in the terminal position of an abbreviation; it essentially represents the number of the abdominal segment]
ac antecosta on abdominal tergite (numbered, e.g. **ac9**)
Ca sclerite at mesal base of cercus
ce cercus
hmp hook-like mesal projection of paraproct
ITn-b movable anterotergal bending line of abdominal dorsum (numbered, e.g. **IT4-b**)
ltga9 lateral tergal apodeme of tergite **T9**
msa1 anterior median specialisation of tergite **T1** of male (strengthened microreticulation)
msl2 lateral specialisation of tergite **T2** of male
msp1 posterior median specialisation of tergite **T1** of male (weak sclerotisation and long bristles)
pg pores of glands of male tergal specialisations
PP paraproct [right **PP^r**, left **PP^l**]
pt9 ventromesad directed extension of paratergite 9 of male (likely with tergite 8 not contributing)
pt8,9 ventromesad directed extension of paratergite 9 of female (likely with tergite 8 contributing)
S abdominal (coxo)sternite (numbered, e.g. **S3**)
sl stylus (upon male subgenital lobe **vf9**) [right **sl^r**, left **sl^l**]
Sn-p posterior border of sternite = posterosternal bending line (numbered, e.g. **S3-p**)
sr transversal ridge of abdominal sternite (numbered, e.g. **sr4**)
sta9 anterior sternal apodeme of abdominal (coxo)sternite 9 of male
T abdominal tergite (numbered, e.g. **T3**)
Tnp ventrally bent lateral (paratergal) parts of tergite (numbered, e.g. **T9p**)
Tn-a anterior border of tergite = anterior tergal margin (numbered, e.g. **T3-a**)
Tn-p posterior border of tergite = posterotergal bending line (numbered, e.g. **T3-p**)
tr transversal ridge of abdominal tergite (numbered, e.g. **tr6**)
vf ventral fold formed by posterior part of an abdominal segment (numbered, e.g. **vf4**; medially fused coxal lobes)
vf7 subgenital lobe of female = ventral fold of abdominal segment 7
vf9 subgenital lobe of male = ventral fold of abdominal segment 9

Female genitalia and subgenital plate

A articulations: **A1** between **gg-l** and **pt8,9**, **A2** between **gg-m** and **pl**, **A3** between **gg-m** and basal sclerotisation of **v1**, **A5** between **pt8,9** and **vlf**
aa anterior arch (of coxa of segment 9)
ac9 antecosta on abdominal tergite 9
ca central apodeme (of segment 9)
gc genital chamber (with ventral wall **gc^v** and dorsal wall **gc^d**)
gcf fold dividing genital chamber horizontally
gcp pouch of genital chamber (one-sided)
gg gonangulum (with mesal sclerite **gg-m** and lateral sclerite **gg-l**) (of laterocoxa of segment 9)
IC intercalary sclerite
isf intersternal fold (on female subgenital lobe **vf7**)
ls laterosternal-shelf sclerite (with its parts **ls-a** = arm, **ls-c** = center, **ls-w** = wing, and **ls-p** posterolateral extremity)
lst laterosternal-shelf tube
mct mesal cleft of laterosternal-shelf tube
oc common oviduct
otkl ootheca keel
pl posterior lobe (of coxa of segment 9)
pt8,9 ventromesad directed extension of paratergite 9 (likely with tergite 8 contributing)
pti paratergal invagination (of segment 9)
S7 subgenital plate = abdominal (coxo)sternite 7

S7-p posterior border of sternite 7 = posterosternal bending line
sp spermathecal plate
sr7 transversal ridge of abdominal sternite 7 (with lateral parts **sr7-l** and median parts **sr7-m**)
v1 1st valves of ovipositor (gonapophyses of segment 8)
v2 2nd valves of ovipositor (gonapophyses of segment 9)
v3 3rd valves of ovipositor (gonoplaes of segment 9)
vf7 subgenital lobe = ventral fold of abdominal segment 7
vf1 floor of vestibulum (= dorsal wall of subgenital lobe **vf7**)
vlf valvifer (of coxa of segment 8)
vtf vestibular transversal fold (on female subgenital lobe **vf7**)

Male genitalia and subgenital plate

A articulations: **A1** between **S9** and **pt9**, **A3** between sclerites **R3** and **R1** (or its subsclerite **R1P**)
ac9 antecosta on abdominal tergite 9
cs cleft sclerite of right phallomere (composed of the dorsally fused **R1S** and **R2**, **R2**-part in contact with arm **v** of **R3**)
ea endophallic apodeme
h hook of left phallomere (with long membranous proximal part **p**, broad base **b** of sclerotised part, neck **n**, and claw **cl**)
hcl cleft in wall of groove **hge** of hook
hge groove upon claw part of hook
L2 sclerotisation of endophallic apodeme (**ea**) and of processes arising near its base (virga **vi**, process **psa**)
psa the mesal process arising at base of endophallic apodeme
pt9 ventromesad directed extension of paratergite 9 (likely with tergite 8 not contributing)
R1 posterodorsal sclerite(s) of right phallomere (often divided, e.g. in **R1S** and **R1P**)
R2 posteroventral sclerite of right phallomere
R3 anterior sclerite of right phallomere (with its parts **a** = anterior arm, **d** = dorsoposterior arm, **v** = ventroposterior arm)
S9 subgenital plate = abdominal (coxo)sternite 9
sl stylus (upon subgenital lobe **vf9**) [right **sl^r**, left **sl^l**]
sta9 anterior sternal apodeme of abdominal (coxo)sternite 9
tve virga tendon
vf9 subgenital lobe = ventral fold of abdominal segment 9
vge virga groove (running along virga), partly two grooves distinguished as **vge1** and **vge2**
vi virga, the lateral process arising at base of endophallic apodeme
vla ventral lobe of left phallomere (= “ventral phallomere”)