**Table S1.** List of morphological characters examined and coded for the 21 analysed terminals.

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| 1. Head, mandibular plates, length in relation to clypeus  0 subequal  1 longer  2 shorter  2. Head, mandibular plates, apex, shape  0 rhombus  1 acute  2 pointed  3. Head, apex of mandibular plates, position related to each other  0 convergents  1 parallels  2 divergents  4. Head, mandibular plates, surface  0 flat  1 deflected at lateral margins  5. Head, mandibular plates, internal margin, orientation  0 straight  1 sinuose near to base  6. Head, discal surface  0 flattened  1 convex  7. Clypeus, insertion related to an imaginary line through anterior margin of the eye  0 posterior  1 anterior  8. Head, clypeus, apex, form  0 rhombus  1 acuminate  2 sharp  9. Head, apex, relation between clypeus and mandibular plates  0 contiguous  1 with an incision  10. Head, mandibular plate, position in relation to clypeus, in lateral view  0 equal  1 superior  11. Head, proportion of eyes related to head width  0 less than 0.43  1 greater than 0.5  12. Head, bucculae, anterior margin, form  0 convex  1 rectilinear  13. Head, bucculae, posterior margin, form  0 truncate  1 evanescent  14. Head, gena, form  0 flat  1 convex  15. Head, rostrum, length  0 reaching the metacoxae  1 surpassing the metacoxae  2 surpassing the mesocoxae  3 reaching the mesocaxae  16. Thorax, pronotum, posterior margin of scars, inner third, callus  0 absent  1 present  17. Thorax, pronotum, anterolateral margins, ornamentation  0 absent  1 present  18. Thorax, pronotum, anterolateral margins, ornamentation, form  0 serrated  1 crenulated  2 toothed  19. Thorax, pronotum, anterior half, color related to the disc  0 lighter  1 darker  2 same color  20. Thorax, pronotum, humeral angles, form  0 rounded  1 pointed  2 in right angle  3 spatulate  21. Thorax, pronotum, humeral angles, position related to pronotal disc in frontal view  0 same level  1 higher level  22. Thorax, pronotum, humeral angles, length related to eye diameter  0 not exceeding  1 exceeding until twice  2 exceeding twice  23. Thorax, pronotum, humeral angles, orientation  0 anteriorly  1 laterally  24. Thorax, scutellum, apex, callus or calloused stain  0 absent  1 present  25. Thorax, scutellum disc, pairs of clustered punctures  0 absent  1 present  26. Thorax, scutellum, foveas  0 absent  1 present  27. Thorax, hemelytrum, membrane, venation  0 parallel  1 reticulate  28. Thorax, hemelytrum, radial vein apex, callus  0 absent  1 present  29. Thorax, hemelytrum, radial vein apex, callus color  0 ivory  1 darkened  30. Thorax, mesopleura, metaepisternum, length  0 not extending to lateral margin  1 extending to lateral margin  31. Thorax, metapleura, external scent efferent system, evaporatorium, length  0 not surpassing the middle of distance between ostiole and suture  1 at least reaching the middle of distance between ostiole and suture  32. Thorax, metapleura, external scent efferent system, evaporatorium, lateral fold  0 absent  1 present  33. Thorax, metapleura, external scent efferent system, evaporatorium, gyrification, extension  0 near to ostiole  1 covering all surface  34. Thorax, metapleura, external scent efferent system, evaporatorium, lateral limit  0 convex  1 straight  2 sinuose  3 concave  35. Thorax, external scent efferent system, ostiole, form  0 guttiform  1 rounded  36. Thorax, external scent efferent system, evaporatorium, punctures  0 absent  1 present  37. Thorax, external scent efferent system, peritreme, median furrow  0 absent  1 present  38. Thorax, external scent efferent system, peritreme length  0 not exceeding twice ostiole diameter  1 longer than twice ostiole diameter  39. Thorax, legs, pigmentation at bristles base  0 absent  1 present  40. Thorax, legs, area of pigmentation at bristles base  0 restricted to insertion area  1 broad  41. Thorax, legs, femora  0 unarmed  1 armed  42. Abdomen, spiracle, color  0 luteous  1 black  2 concolor  43. Abdomen, Urosternite VII in males, posterolateral angles, form  0 slightly projected  1 strongly projected, spine like  44. Abdomen, Urosternite VII in males, anterior margin, concavity  0 shallow  1 deep  45. Genital plates, gonocoxites 8, disc, form  0 convex  1 concave  2 flat  46. Genital plates, gonocoxites 8, sutural margins, form  0 parallel  1 overlapping along the basal half  47. Genital plates, gonocoxites 8, posterior margin, median third, hairiness density  0 sparse  1 concentrated  48. Genital plates, gonocoxites 9, position in relation to segment X  0 on the same level  1 oblique, in an obtuse angle  49. Genital plates, gonocoxites 9, surface  0 convex  1 depressed  2 1+1 concave areas  50. Genital plates, gonocoxites 9, median longitudinal furrow  0 absent  1 present  51. Genital plates, laterotergites 8, apex, tapered shape  0 absent  1 present  52. Genital plates, laterotergites 9, disc, form  0 concave  1 flat  2 convex  53. Genital plates, laterotergite 9, length in relation to the band uniting laterotergites 8  0 nor or just surpassing  1 well surpassing  54. Ectodermal ducts, proximal ductus receptaculi, length in relation to the vesicular area  0 shorter  1 equal  2 around twice  55. Ectodermal ducts, proximal ductus receptaculi, basal sclerotization of vesicular area  0 absent  1 present  56. Ectodermal ducts, distal ductus receptaculi, next anterior flange, form  0 tubular  1 dilated  2 conic  3 globose  57. Ectodermal ducts, pars intermedialis, form  0 rectilinear  1 coiled  58. Ectodermal ducts, capsula seminalis, form  0 globose  1 ovate  2 fingerlike  59. Pygophore, superior process of dorsal rim, texture  0 sclerotized  1 membranous  60. Pygophore, superior process of dorsal rim, form  0 blade-like  1 tumescent  61. Pygophore, superior process of dorsal rim, placement  0 restricted to dorsal rim  1 projected inward, into genital cup  2 extending along dorsal rim, reaching posterolateral angles  62. Pygophore, superior ridge, form  0 contiguous with dorsal rim, not extending over segment X  1 extending over segment X  63. Pygophore, dorsal rim, diagonal depression  0 absent  1 present  64. Pygophore, transverse ridge  0 inconspicuous  1 conspicuously  65. Pygophore, transverse ridge, form  0 restricted to lateral areas of ventral rim  1 depressed at middle  2 entire  66. Pygophore, ventral rim, posterolateral angles, bristles tufts  0 absent  1 scarcely present  67. Pygophore, ventral rim, posterolateral angles, bristles density  0 scarce  1 dense  68. Pygophore, ventral rim at middle, form (ventral view)  0 slited  1 biconvex  2 convex  3 concave  4 rectilinear  5 pointed  69. Pygophore, ventral rim at middle, bristles tufts  0 absent  1 present  70. Pygophore, segment X, form  0 entirely convex  1 flat at apex  2 entirely concave  71. Pygophore, segment X, size in relation the pygophore diameter  0 less than 1/3  1 1/3  72. Pygophore, segment X, bumps  0 absent  1 present  73. Pygophore, segment X, bumps, placement  0 near base  1 near apex  74. Pygophore, parameres, lateral surface, density of hairy area  0 scarce  1 dense  75. Phallus, ductus seminis distalis, length in relation the phallotheca diameter  0 longer  1 shorter  76. Phallus, ductus seminis distalis,  0 straight  1 coiled  77. Phallus, phallotheca, ventral processes  0 absent  1 present  78. Phallus, phallotheca, ventral processes, distance between processes in relation to the processes width at base  0 subequal  1 unitil twice  2 lesser  3 more than three times  79. Phallus, phallotheca, ventral processes, width  0 uniform  1 tapering toward the apex  2 abruptly tapered at apex 2/3  3 spatulate  80. Phallus, phallotheca, ventral processes, shape  0 straight  1 arched  81. Phallus, vesica, processus vesicae  0 absent  1 present  82. Phallus, vesica, processus vesicae, form  0 lip-like  1 gutter-like  83. Phallus, secondary gonopore, processus  0 absent  1 present  84. Phallus, secondary gonopore processus, form  0 guetterlike  1 tumescent  2 spatulate  85. Phallus, phallotheca, posterolateral angles, rounded projections  0 absent  1 present  86. Phallus, phallotheca, insertion of the ductus seminis proximalis in ejaculatory reservoir  0 near to the base of phallotheca  1 beyond the middle of the ejaculatory reservoir |