

FIGURES

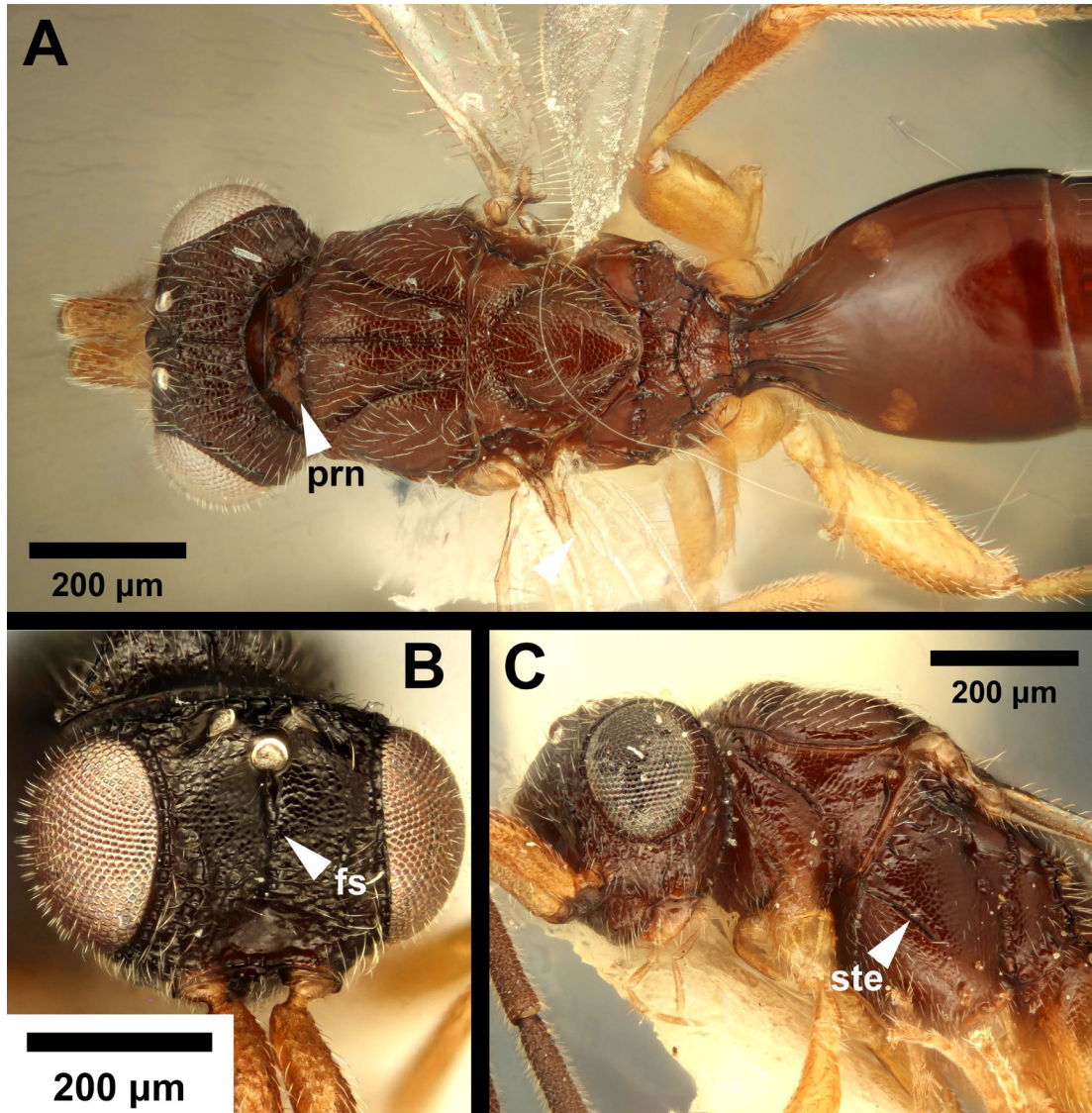


Figure 9. *Conostigmus abdominalis* (Boheman, 1832) males. A. Dorsal view. (PSUC_FEM 88062). B. Frons (PSUC_FEM 88082). C. Lateral (PSUC_FEM 86279). Abbreviations: facial sulcus (fs), pronotum (prn), sternaulus (ste).

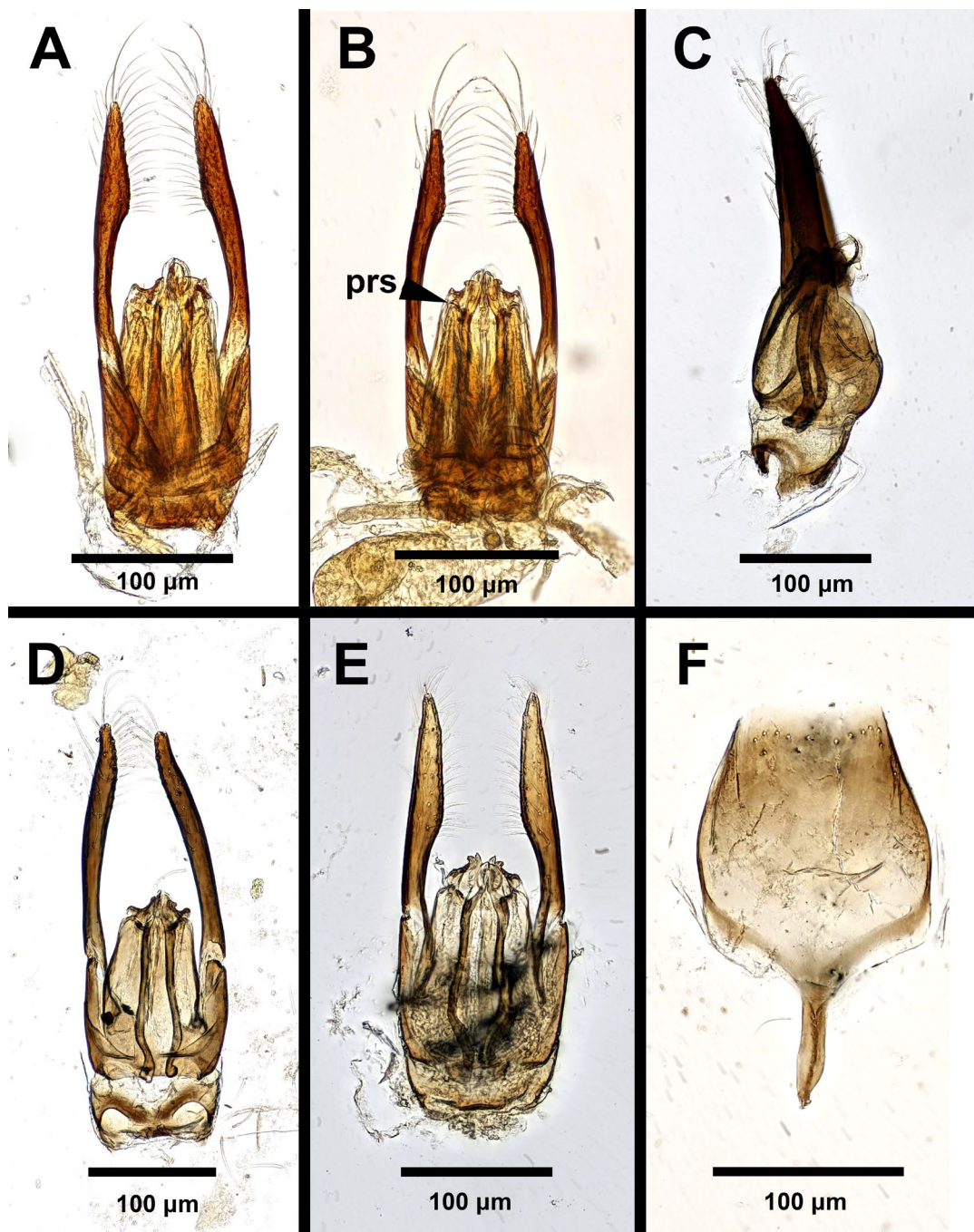


Figure 10. *Conostigmus abdominalis* (Boheman, 1832) male genitalia. A. Ventral (PSUC_FEM 148540). B. Dorsal (PSUC_FEM 148545). C. Lateral (PSUC_FEM 88185). D. Odd specimen (PSUC_FEM 50171) with harpe that are barely spatulate or spoon-shaped, resembling C. longiharpes. E. Odd specimen from Michigan (PSUC_FEM 50143) with the widest part of the harpe varying occurring in the proximal 2/3rds. F. S9 (PSUC_FEM 50154). Abbreviation: apical parossicular setae (prs).



Figure 11. *Conostigmus ambiguus* (Ashmead, 1893) in dorsal view. A. Male allolectotype (USNMENT01212995). B. Female lectotype (USNMENT01339747).

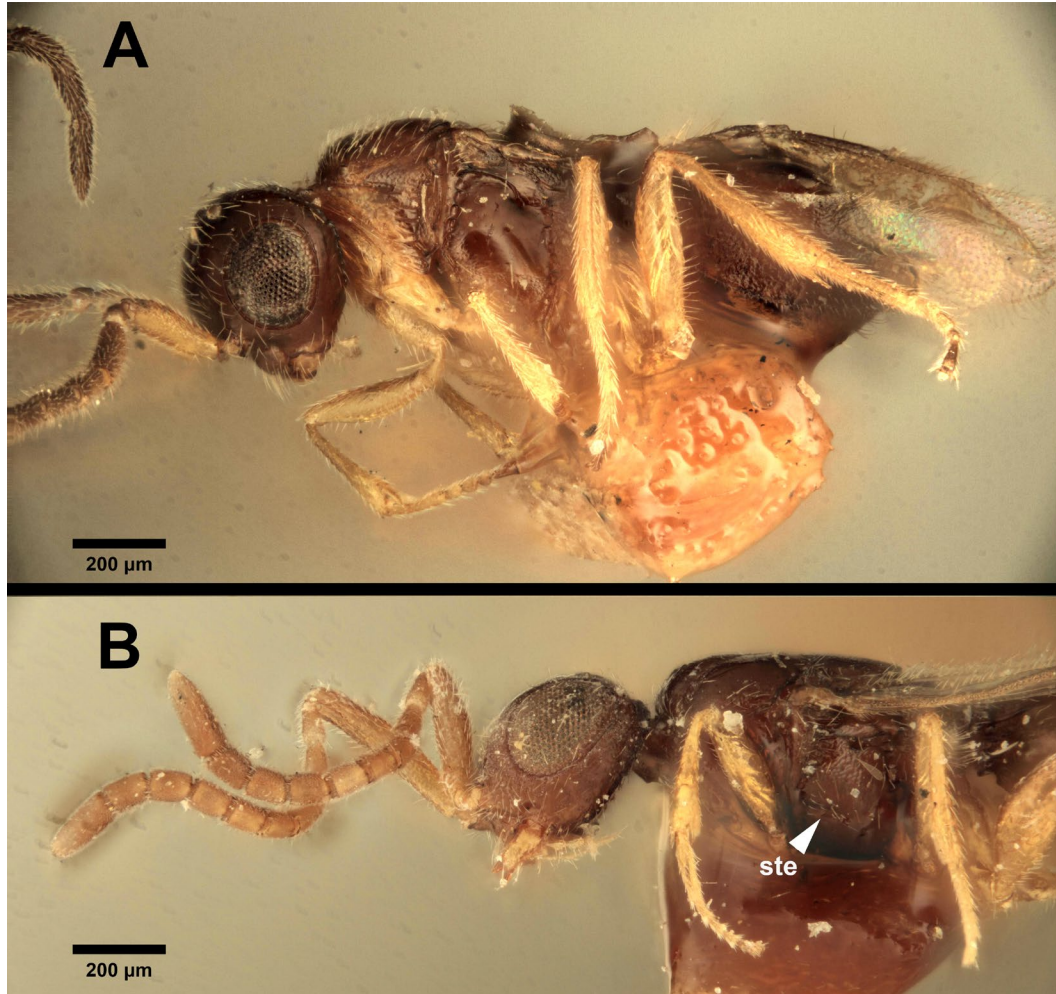


Figure 12. *Conostigmus ambiguus* (Ashmead, 1893) in lateral view. A. Male allolectotype (USNMENT01212995). B. Female lectotype (USNMENT01339747). Abbreviation: sternaulus (ste).

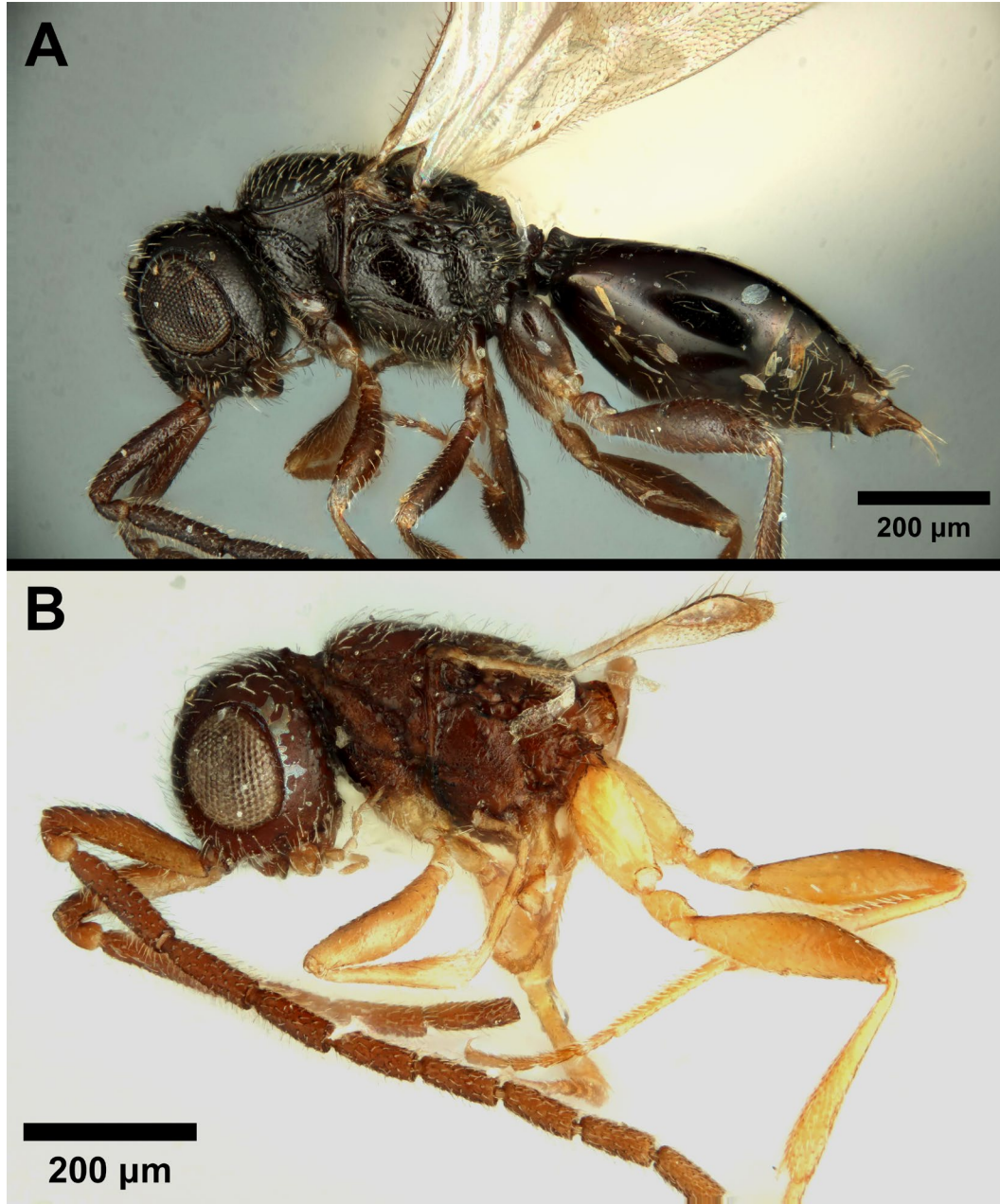


Figure 13. *Conostigmus bipunctatus* Kieffer, 1907 in lateral view. A. Fully winged male (PSUC_FEM 34149). B. Reduced wing male (PSUC_FEM 34065).

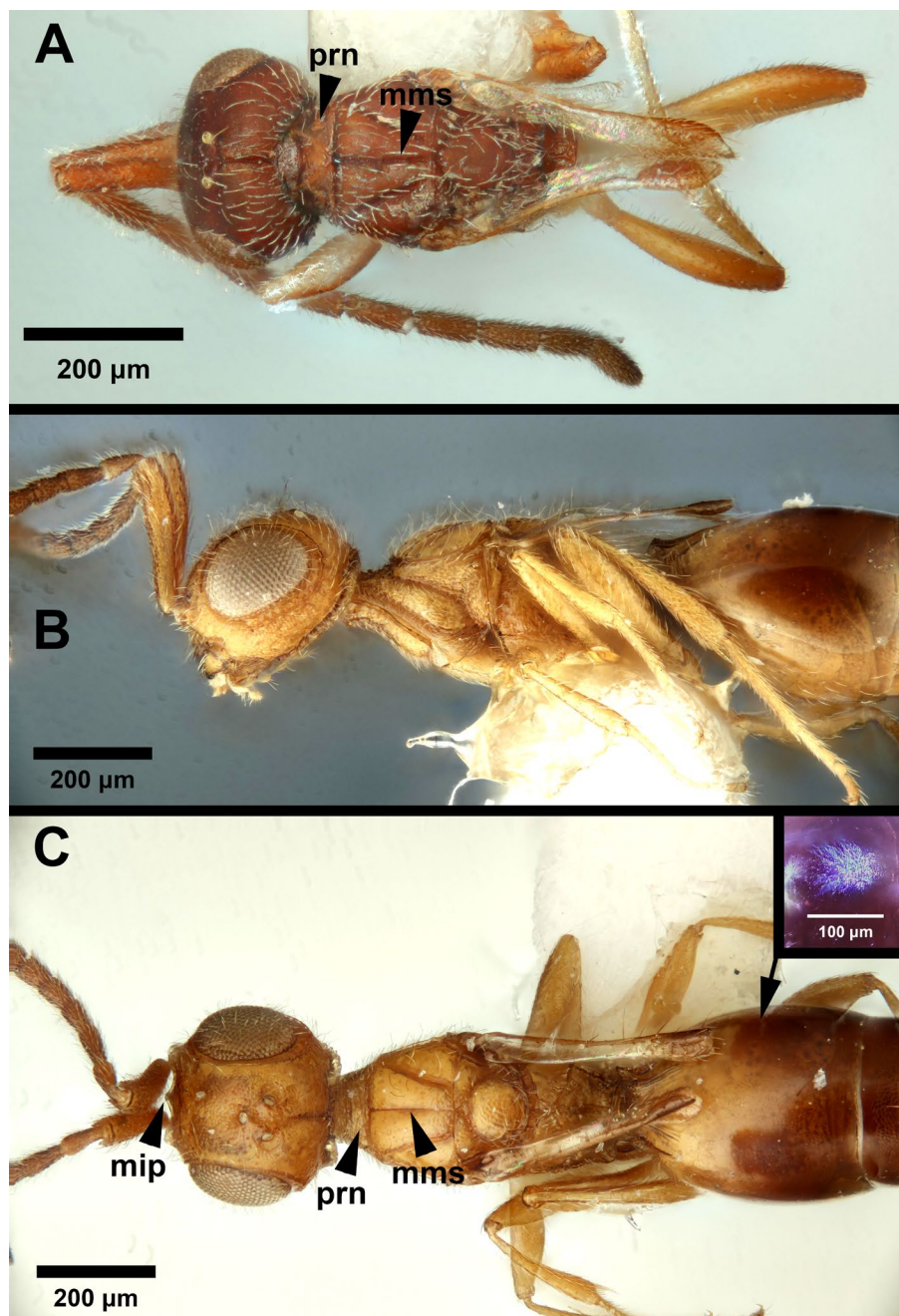


Figure 14. *Conostigmus bipunctatus* Kieffer, 1907. A. Reduced wing male, dorsal view (PSUC_FEM 34065). B. Reduced wing female, lateral view (PSUC_FEM 88193). C. Reduced wing female, dorsal view (PSUC_FEM 88193), with insert showing a close-up of the blue iridescent ovular patch (Insert: reduced wing male; PSUC_FEM 88167). Abbreviations: median process on intertorular carina (mip; projection acute in this case); median mesoscutal sulcus (mms); pronotum (prn).

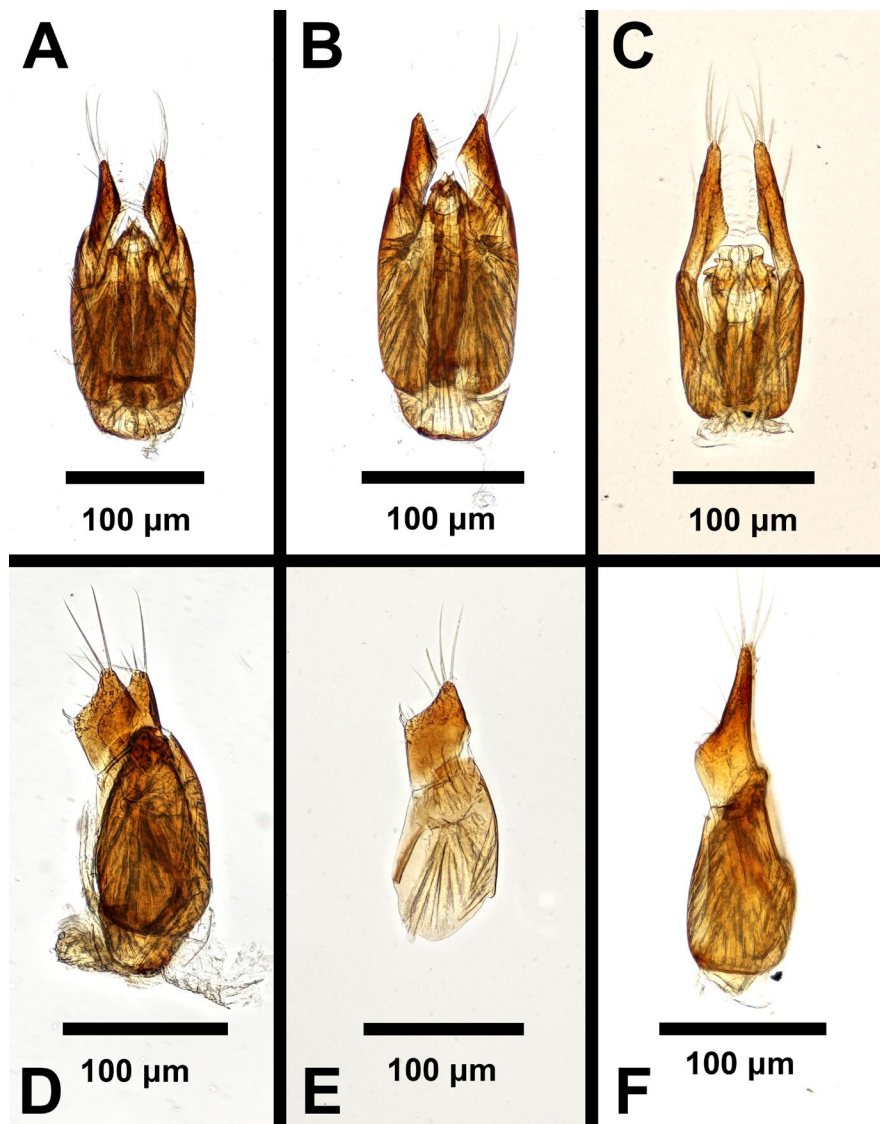


Figure 15. *Conostigmus bipunctatus* Kieffer, 1907 male genitalia. A. Ventral view (NCSU_55671). B. Dorsal view (PSUC_FEM 88193). C. Ventral view of a male with longer harpe (IM 1628). D. Lateral view (IM 1779). E. Lateral view (PSUC_FEM 148461). F. Lateral view of a male with longer harpe (IM 1628).



Figure 16. *Conostigmus californicus* (Ashmead, 1893) male lectotype (USNM_ENT 01339748), lateral habitus.

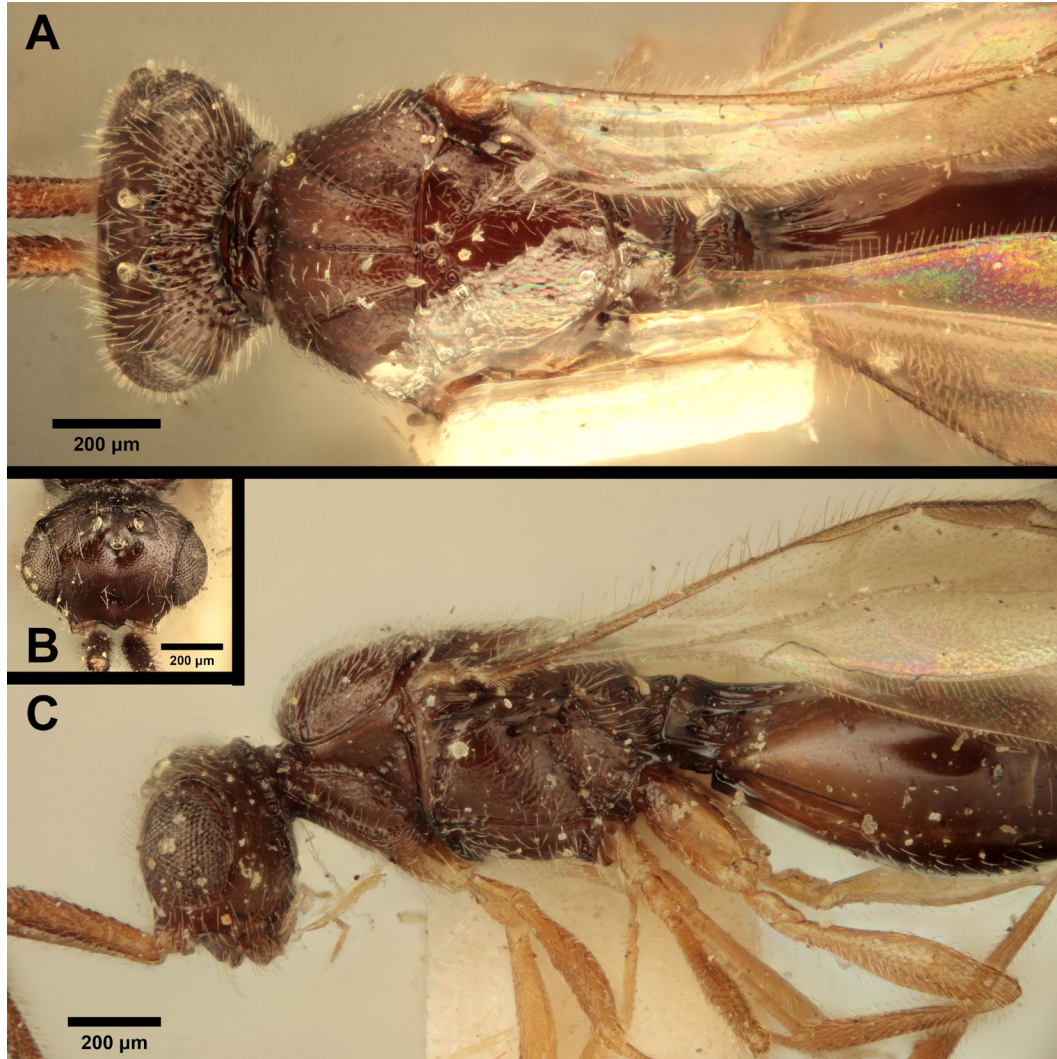


Figure 17. *Conostigmus californicus* (Ashmead, 1893) male lectotype (USNM_ENT 01339748).
A. Dorsal view. B. Dorsal view of the frons. C. Lateral view.



Figure 18. *Conostigmus canadensis* (Ashmead, 1888) female lectotype (USNM_ENT 01339753). A. Lateral habitus. B. Anterior view of the frons.



Figure 19. *Conostigmus canadensis* (Ashmead, 1888) female lectotype (USNM_ENT 01339753). A. Lateral view. B. Dorsal view. Abbreviations: pronotum (prn).



Figure 20. *Conostigmus crawfordi* (Mann, 1920) female lectotype (USNM_ENT 01339781). A. Lateral view. B. Dorsal view.

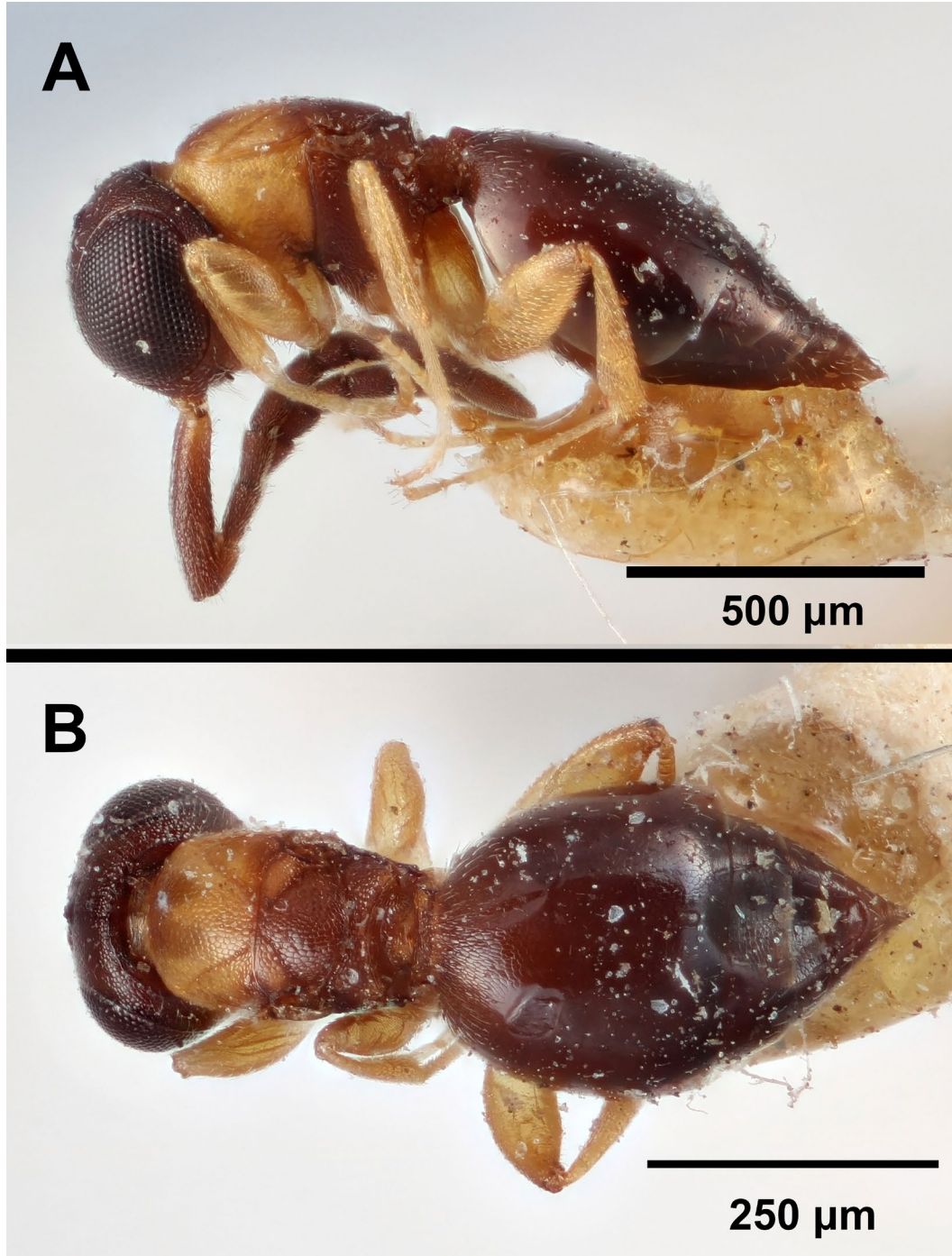


Figure 21. *Conostigmus dimidiatus* (Thomson, 1858) female lectotype (MZLU Type No. 5329).
A. Lateral view. B. Dorsal view. Imaged by Christoffer Fägerström at the MZLU.

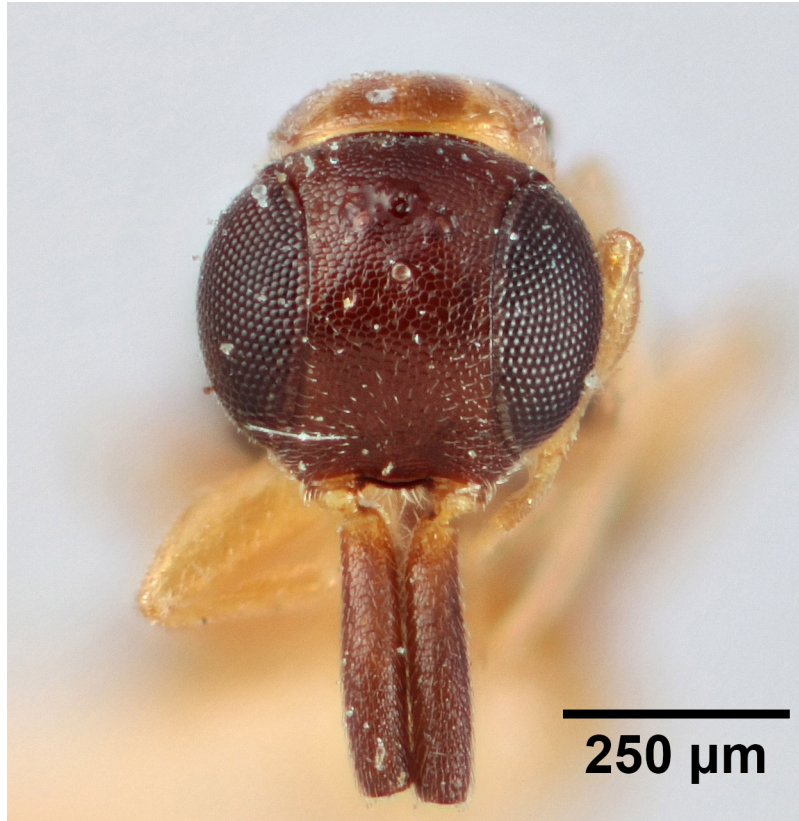


Figure 22. *Conostigmus dimidiatus* (Thomson, 1858) female lectotype (MZLU Type No. 5329) anterior view of the frons. Imaged by Christoffer Fägerström at the MZLU.

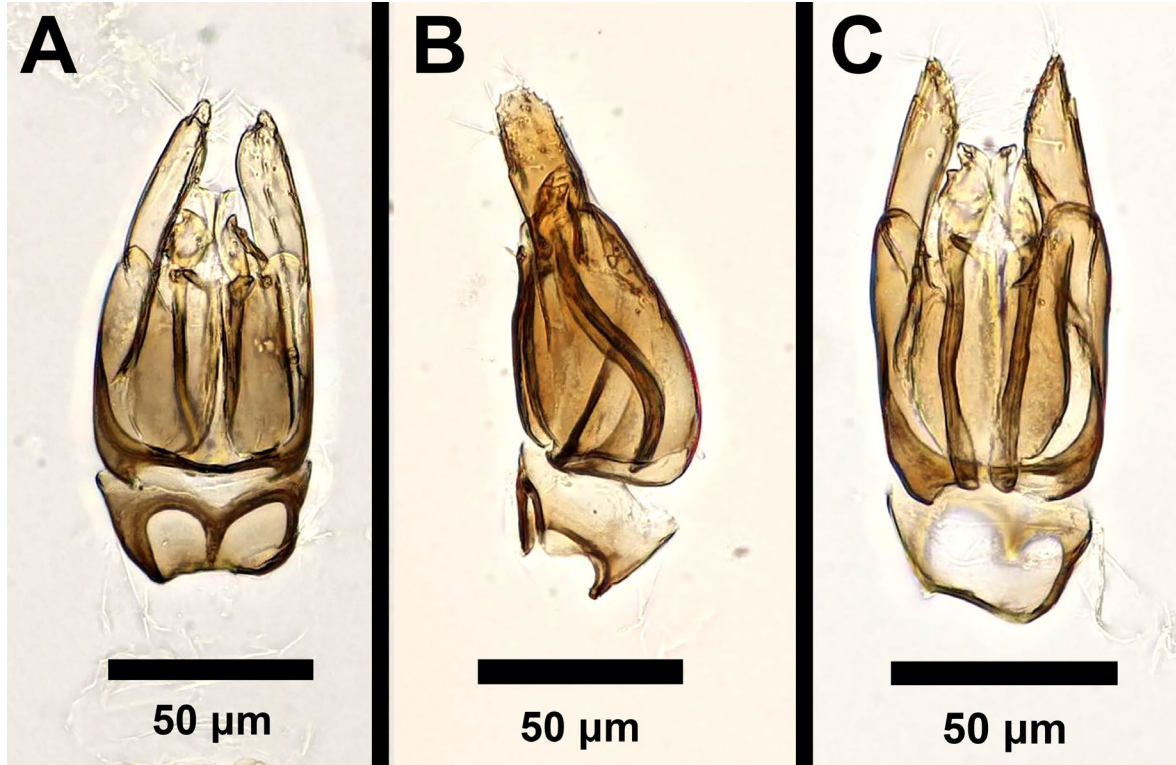


Figure 23. *Conostigmus dimidiatus* (Thomson, 1858) male genitalia. A. Ventral view (PSUC_FEM 34290). B. Lateral view (UCRC_ENT 103613). C. Dorsal view (UCRC_ENT 103613).

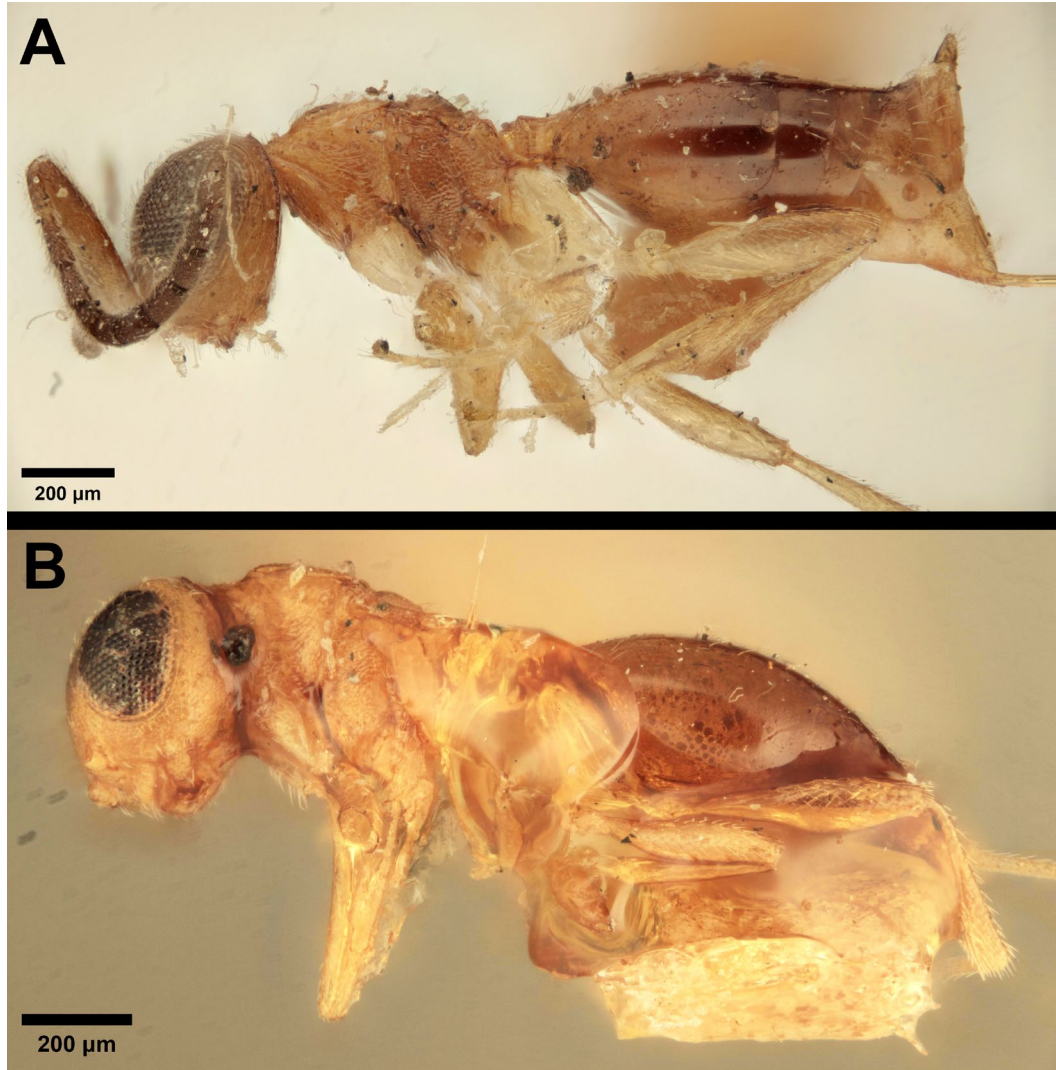


Figure 24. *Conostigmus erythrothorax* (Ashmead, 1893) type specimens in lateral view. A. Female lectotype (USNM_ENT 01339752). B. Male paralectotype (USNM_ENT 1212999).

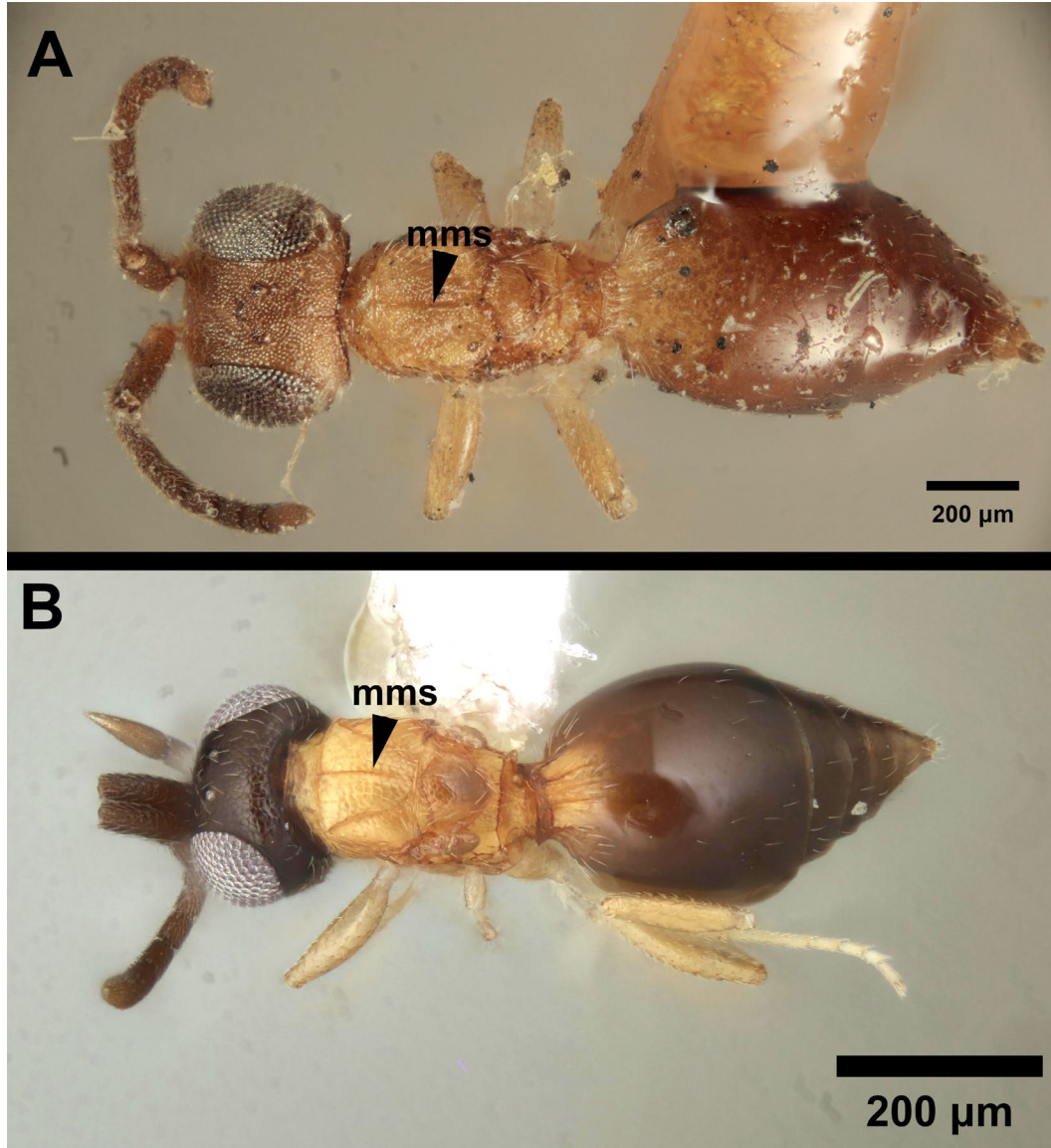


Figure 25. *Conostigmus erythrothorax* (Ashmead, 1893) females in dorsal view. A. Female lectotype (USNM_ENT 01339752). B. A female collected more recently than the lectotype (UCRC_ENT 103621). Abbreviation: median mesoscutal sulcus (mms).

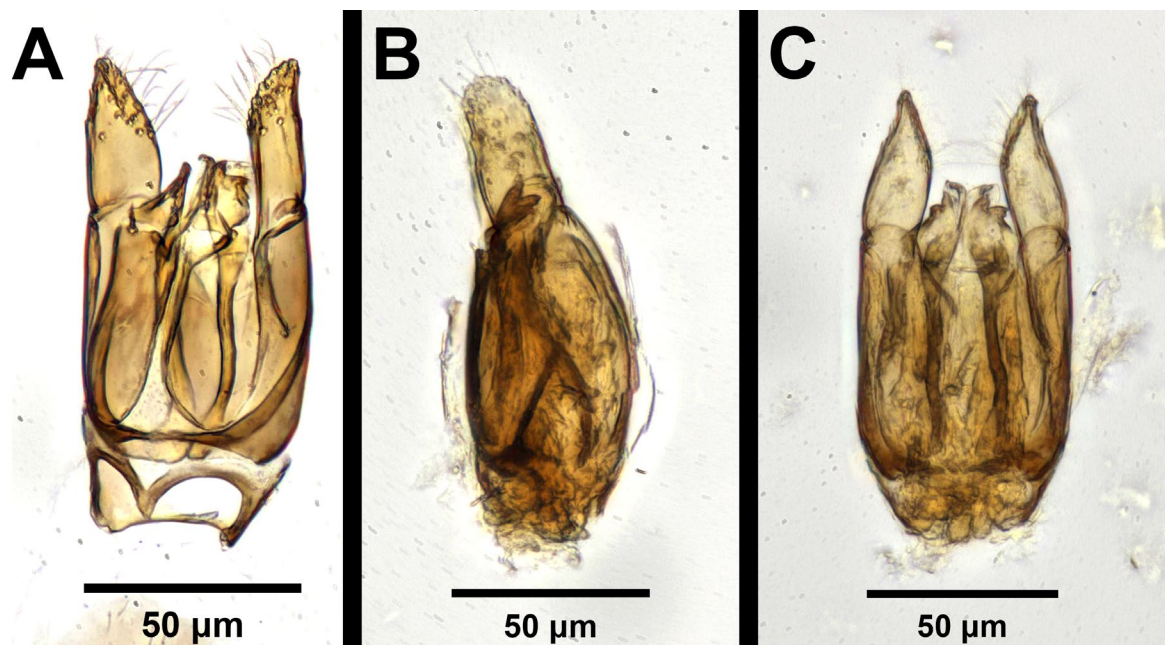


Figure 26. *Conostigmus erythrothorax* (Ashmead, 1893) male genitalia. A. Ventral view (PSUC_FEM 1141). B. Lateral view (PSUC_FEM 34079). C. Dorsal view (PSUC_FEM 34079).

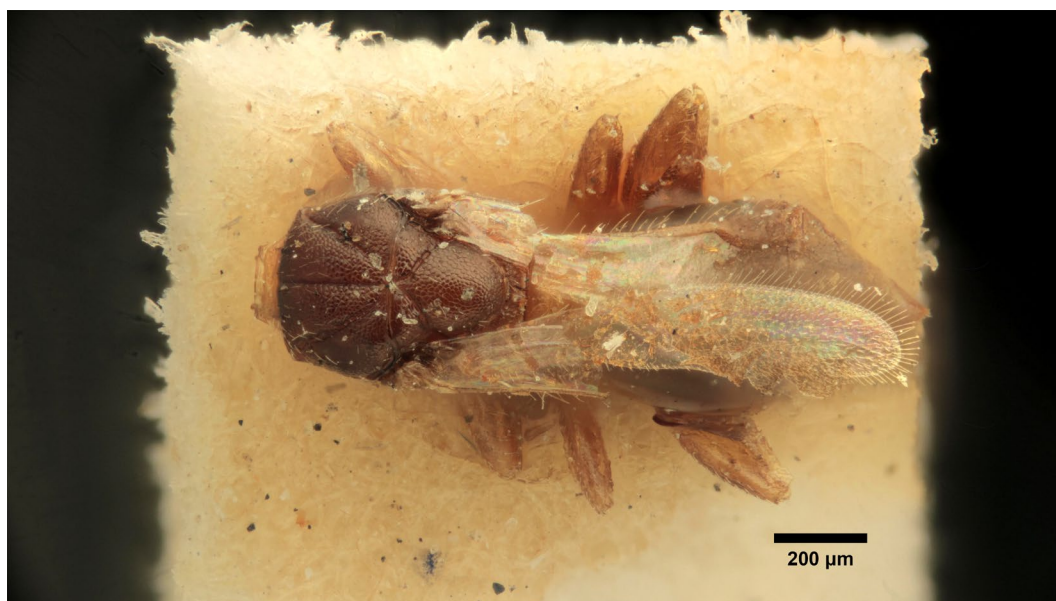


Figure 27. *Conostigmus harringtoni* (Ashmead, 1888) female lectotype (USNM_ENT 01339750) in dorsal view.

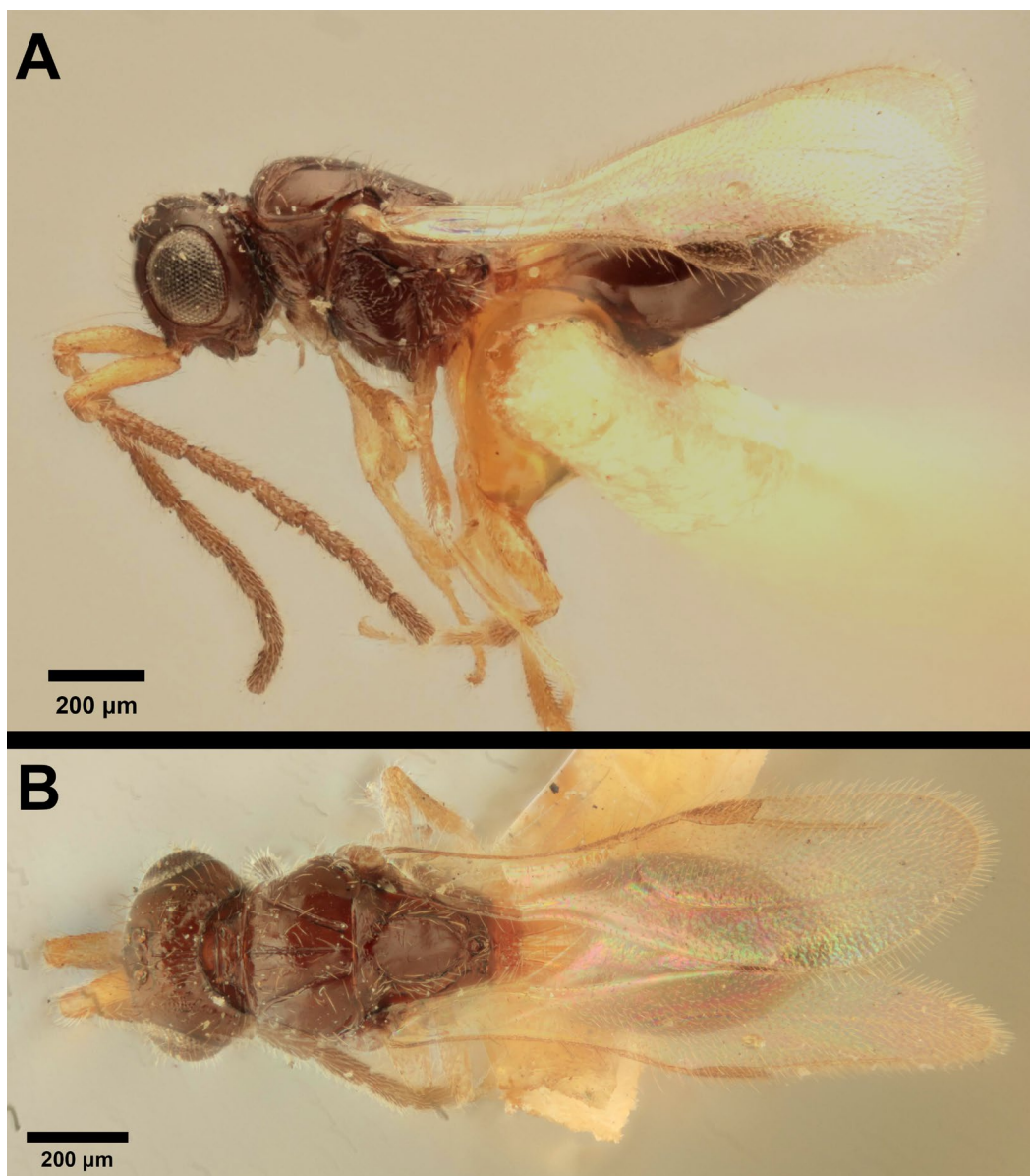


Figure 28. *Conostigmus laeviceps* (Ashmead, 1893) male lectotype (USNMENT 01339759). A. Lateral view. B. Dorsal view.

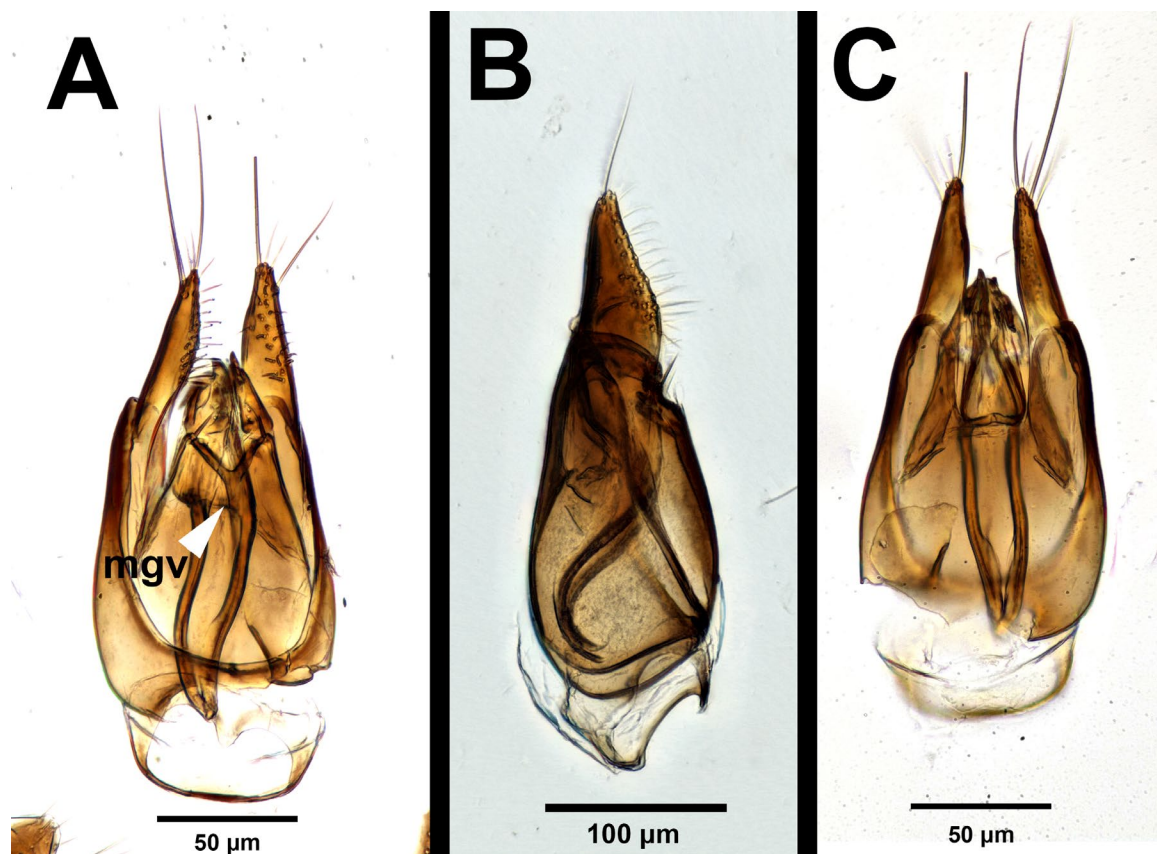


Figure 29. *Conostigmus laeviceps* (Ashmead, 1893) male genitalia. A. Ventral view (PSUC_FEM 8795). B. Lateral view (PSUC_FEM 50136). C. Dorsal view (PSUC_FEM 8795). Abbreviation: medioventral ridge of the gonostyle–volsella complex (mgv).

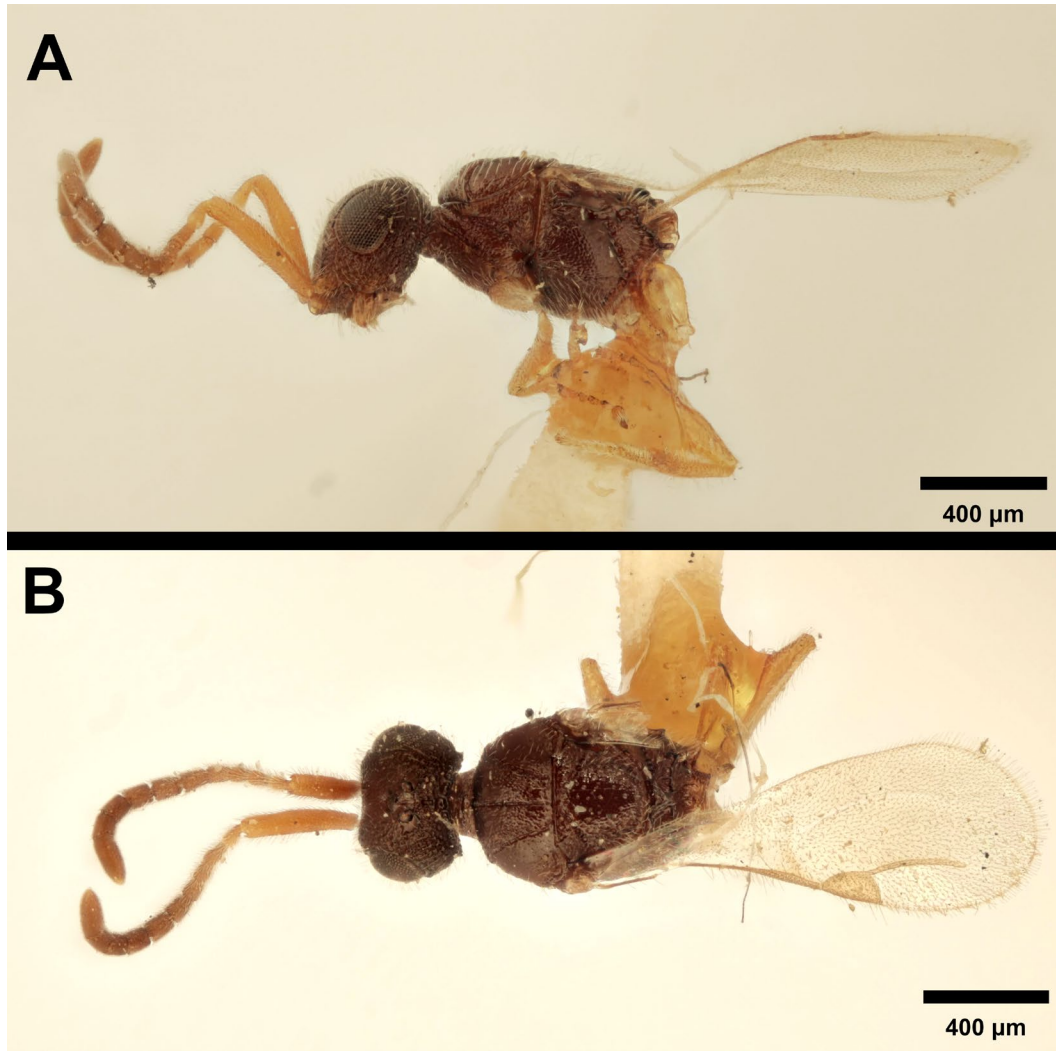


Figure 30. *Conostigmus marylandicus* (Ashmead, 1888) female lectotype (USNM_ENT 01339742). A. Lateral view. B. Dorsal view.

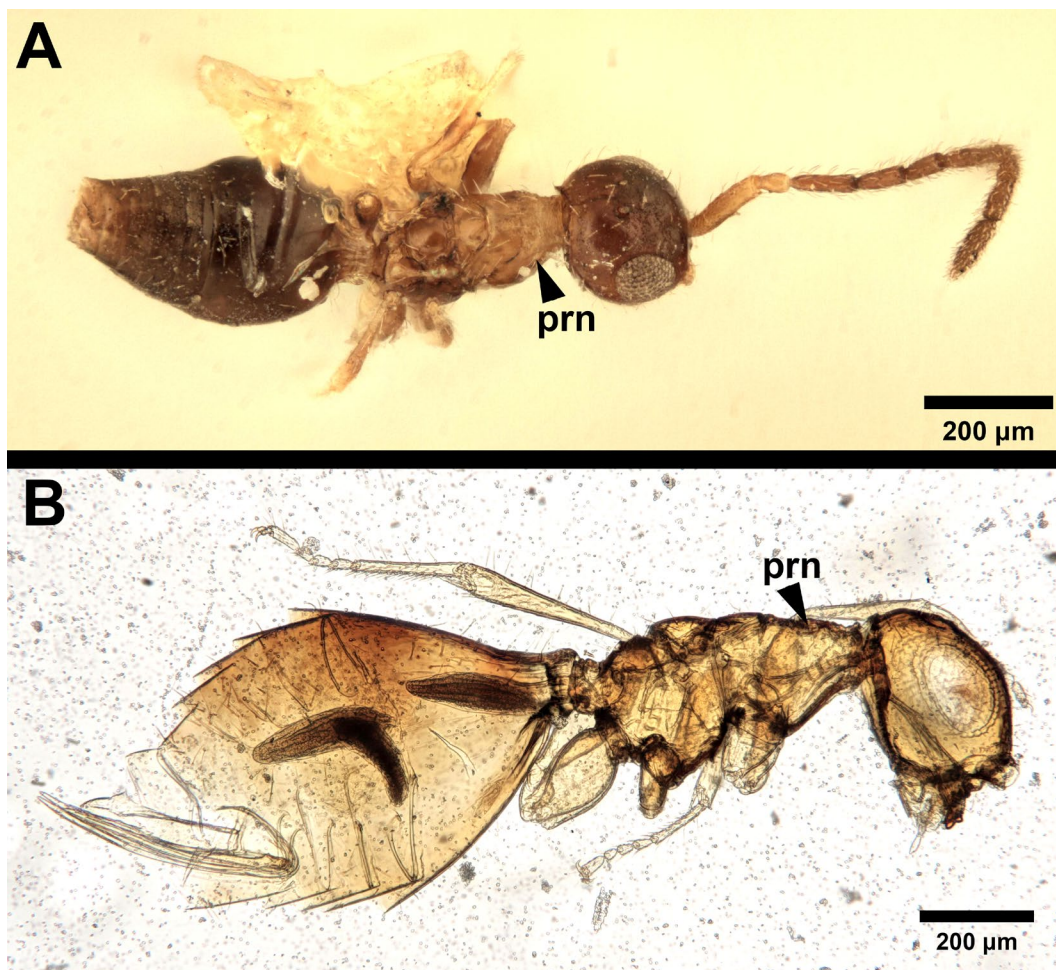


Figure 31. *Conostigmus muesebecki* Dessart & Masner, 1965 type specimens at the USNM. A. Male paratype (USNM_ENT 01212979) in dorsal view. B. Female holotype slide of body (female lectotype (USNM_ENT 01339742) in dorsal view (USNM_ENT 01339792). Abbreviation: pronotum (prn).

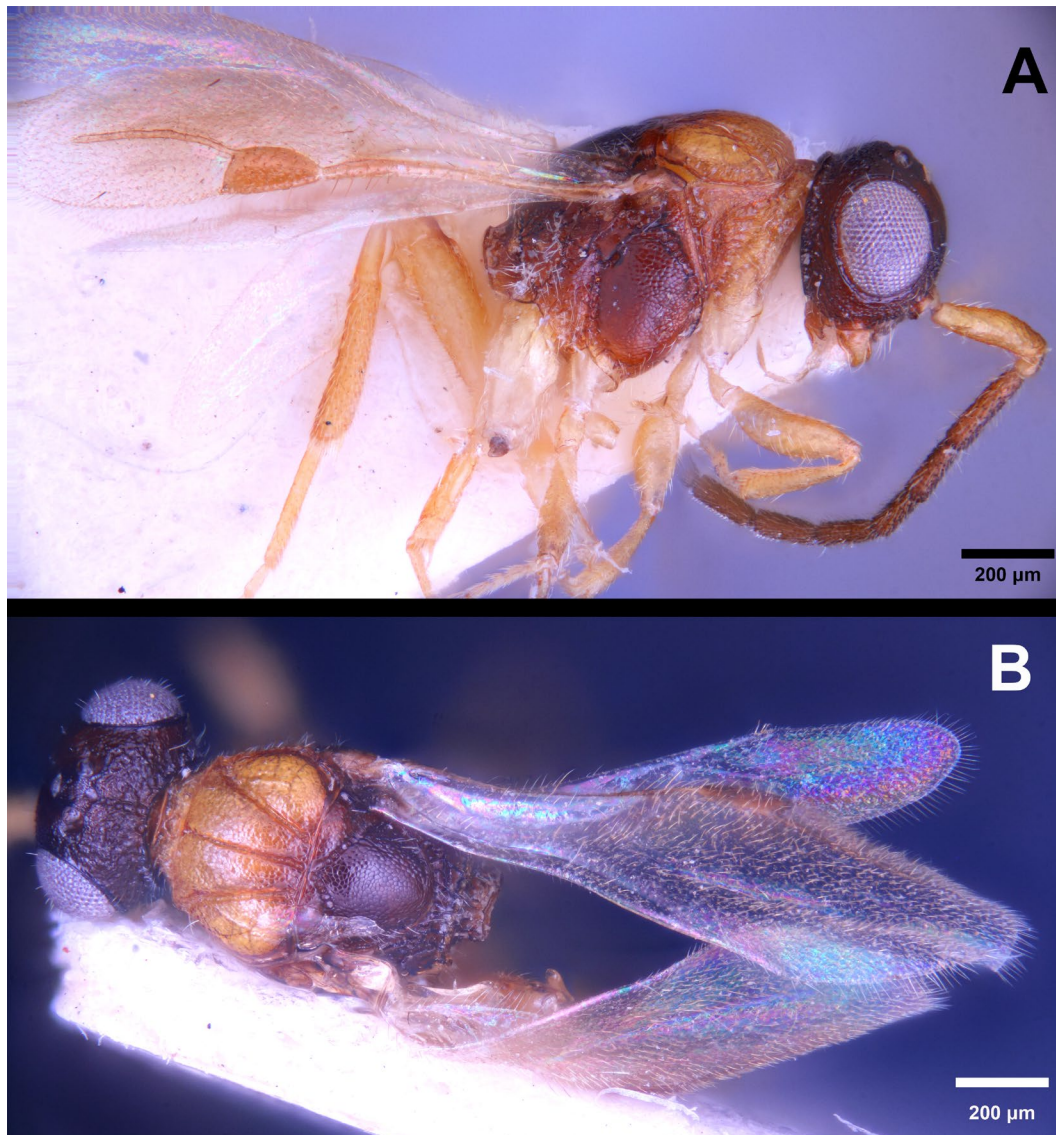


Figure 32. *Conostigmus nigrorufus* Dessart, 1997 holotype male (PSUC_FEM31468). A. Lateral view. B. Dorsal view.

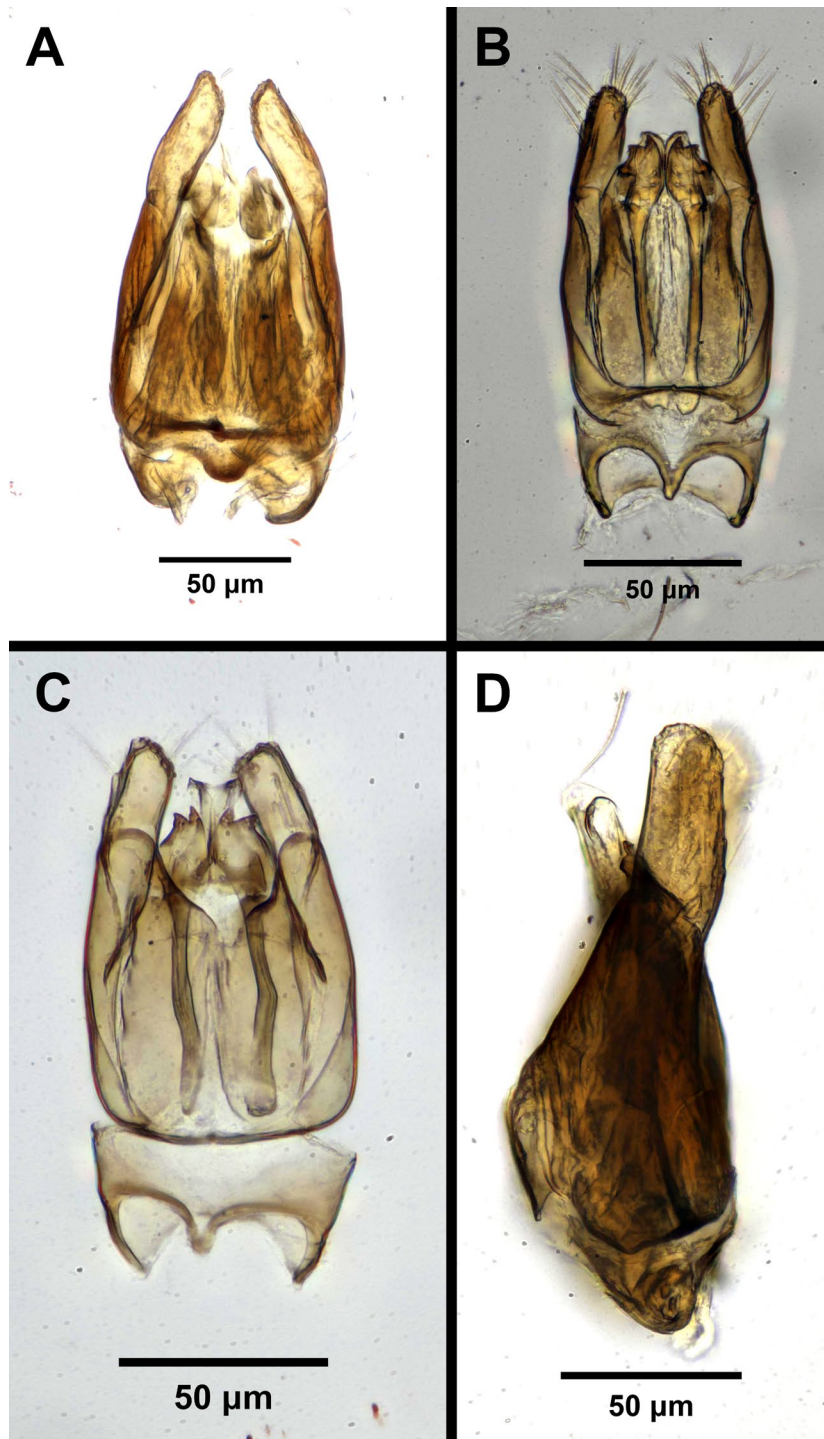


Figure 33. *Conostigmus nigrorufus* Dessart, 1997 holotype male (PSUC_FEM31468). A. Ventral view, with blunt gonocondyle (PSUC_FEM 45241). B. Ventral view, with acute gonocondyle (PSUC_FEM 15380). C. Dorsal view (INHS 287530). D. Lateral view (PSUC_FEM 45241).

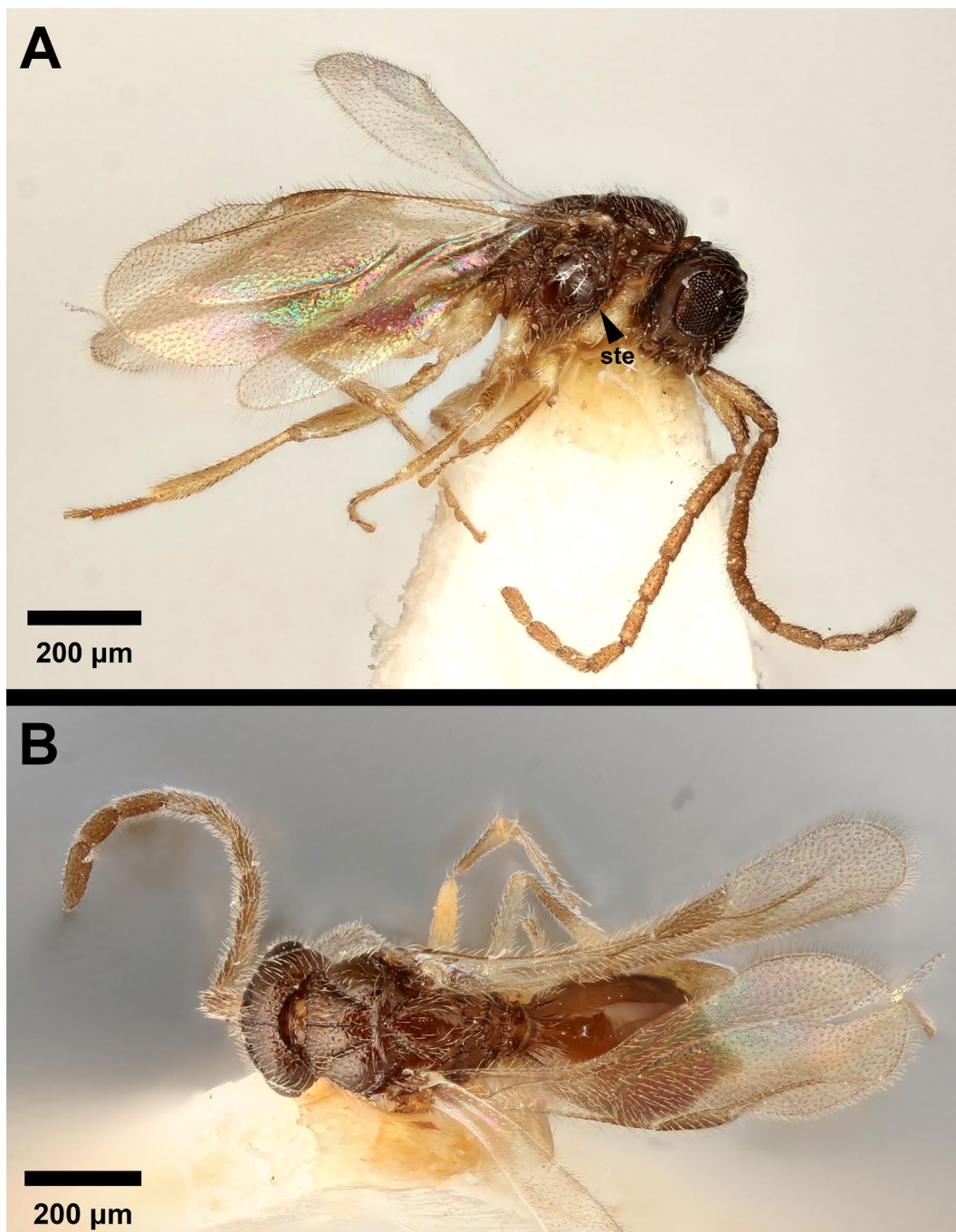


Figure 34. *Conostigmus obscurus* (Thomson, 1858) male (UAM 100257610). A. Lateral view. B. Dorsal view. Abbreviation: sternaulus (ste).

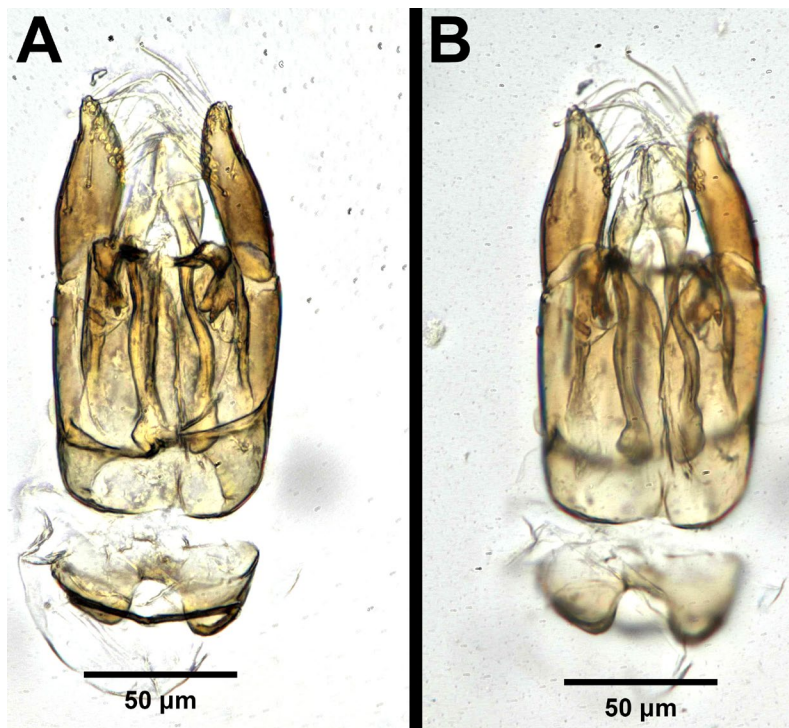


Figure 35. *Conostigmus obscurus* (Thomson, 1858) male genitalia (UAM 100257610). A. Ventral view. B. Dorsal view.

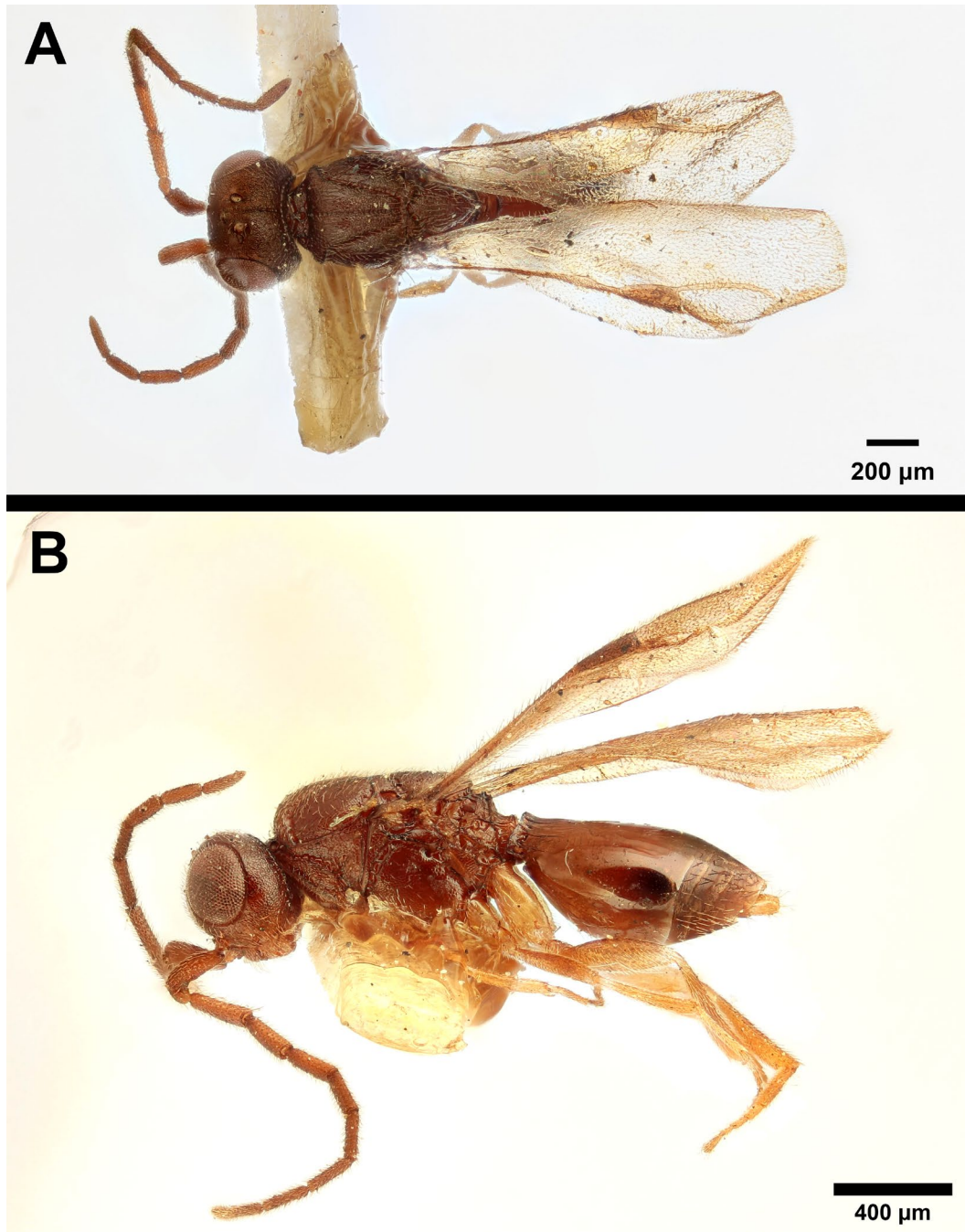


Figure 36. *Conostigmus orcasensis* (Brues, 1909) male holotype (UAM 100257610). A. Dorsal view. B. Lateral view.

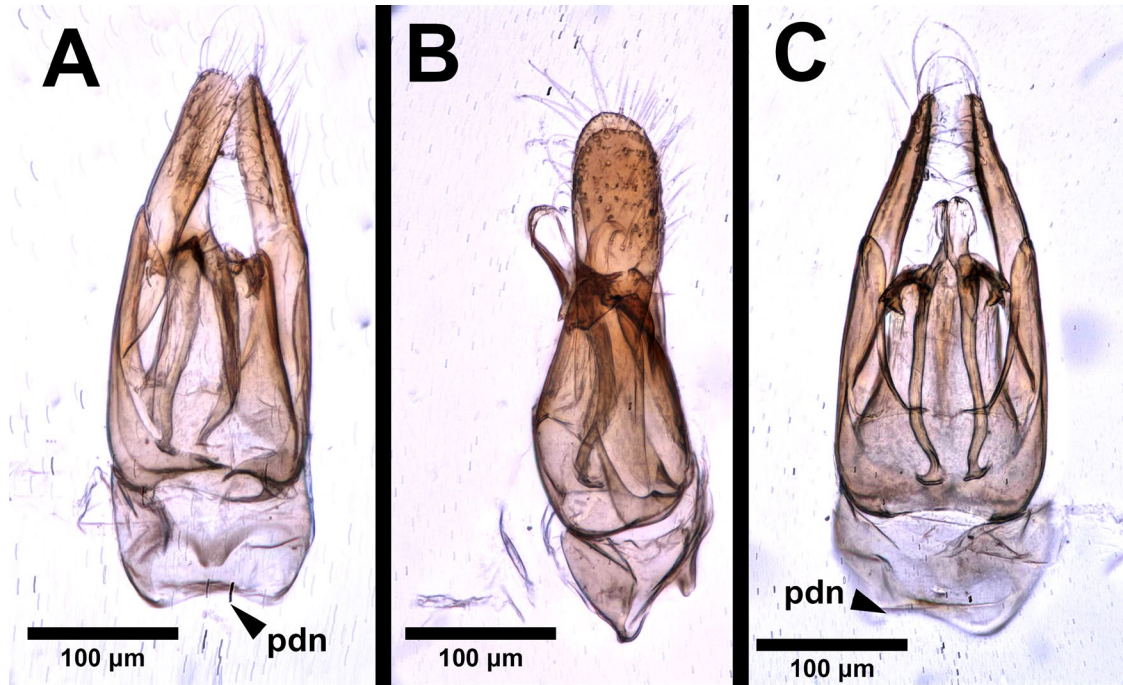


Figure 37. *Conostigmus orcasensis* (Brues, 1909) male holotype genitalia (UAM 100257610). A. Ventral view. B. Lateral view. C. Dorsal view. Abbreviation: promixodorsal notch of cupula (pdn).

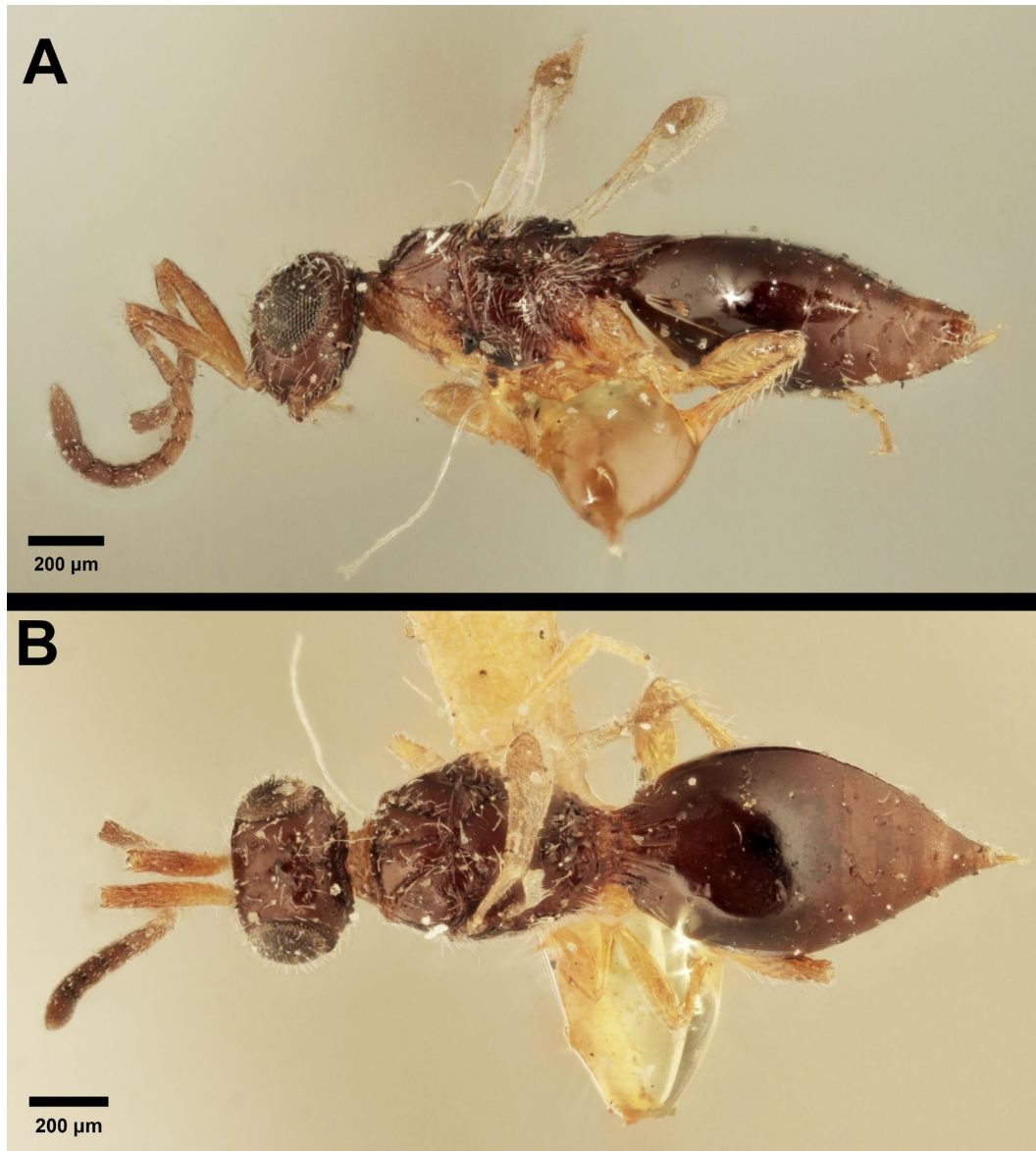


Figure 38. *Conostigmus ottawensis* (Ashmead, 1888) female lectotype (USNM_ENT 01339741).
A. Dorsal view. B. Lateral view.

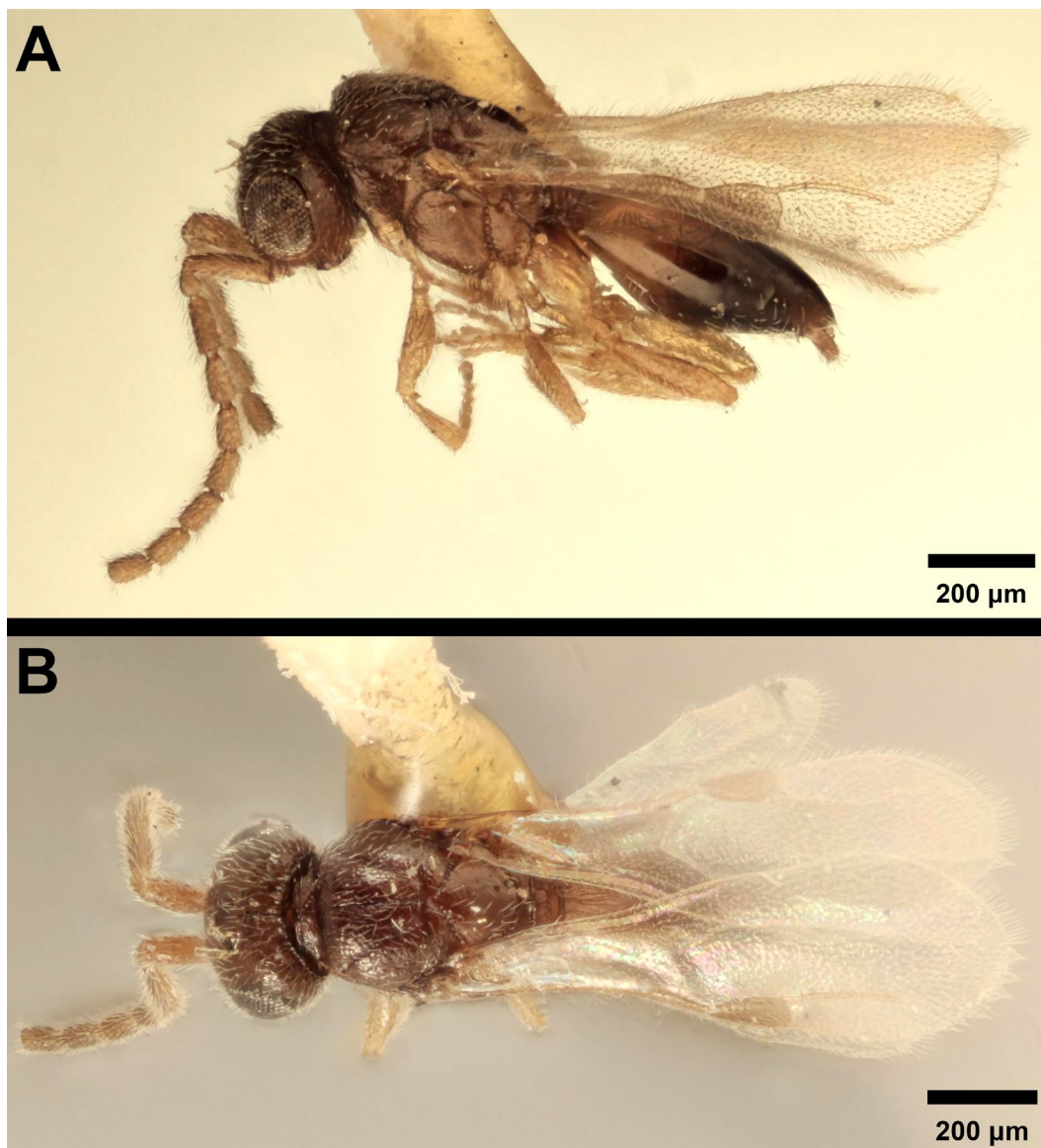


Figure 39. *Conostigmus pergandei* (Ashmead, 1893) female lectotype (USNM_ENT 01339755).
A. Lateral view. B. Dorsal view.

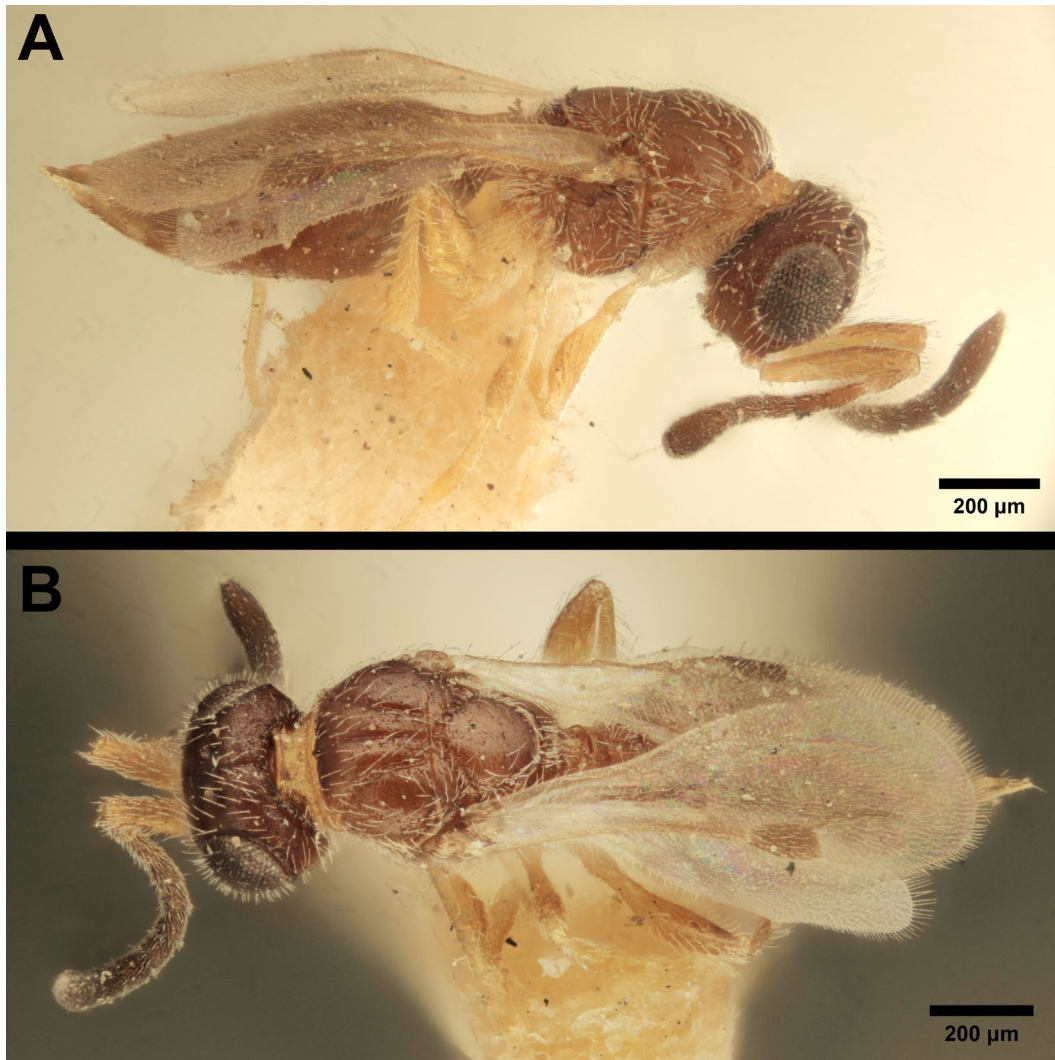


Figure 40. *Conostigmus popenoei* (Ashmead, 1893) female lectotype (USNM_ENT 01339764).
A. Lateral view. B. Dorsal view.

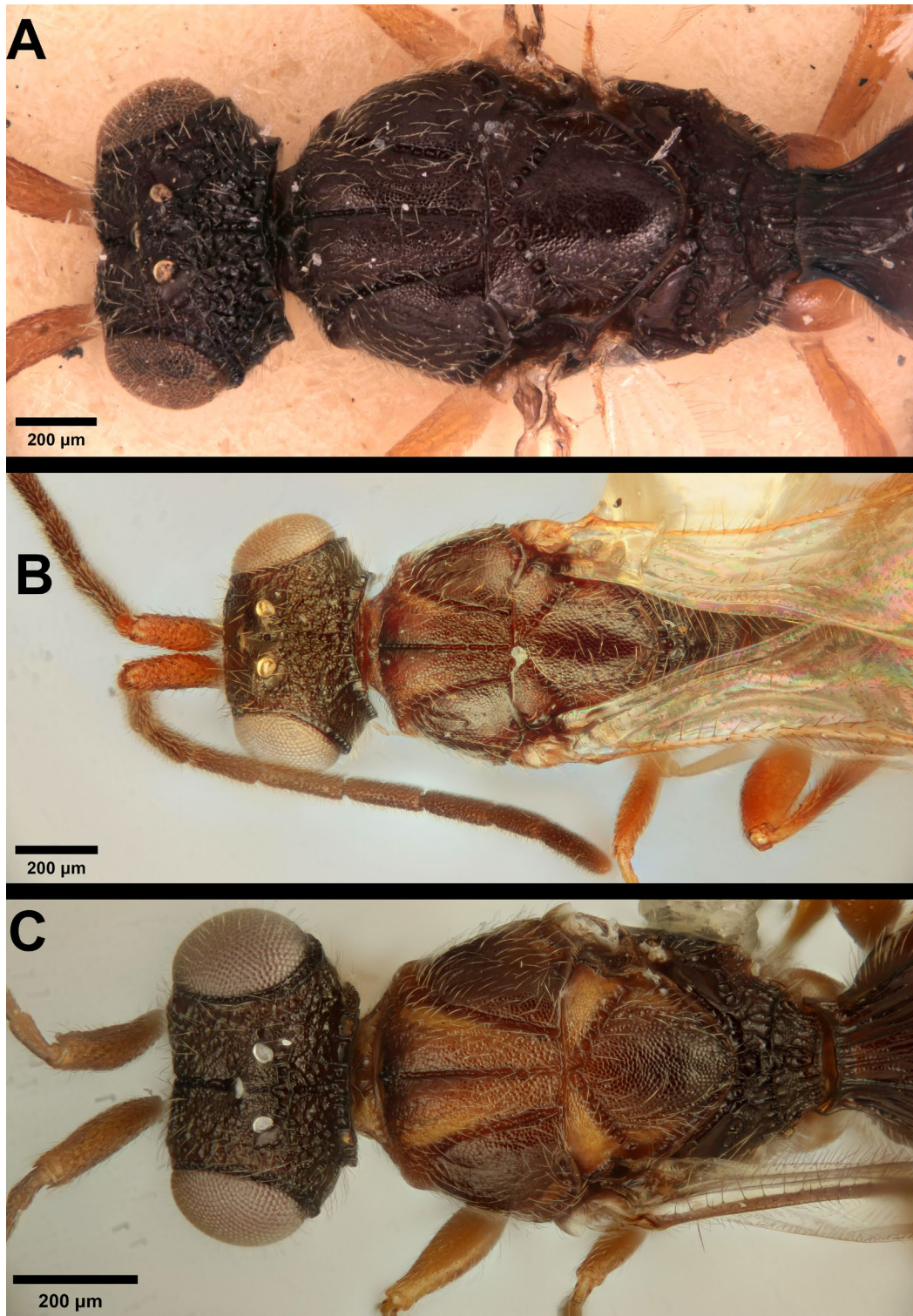


Figure 41. *Conostigmus pulchellus* Whittaker, 1930 in dorsal view. A. Holotype male (NHMUKENT010812088). B. Male with female coloration (PSUC_FEM 64329). C. Female (CMNH22766).

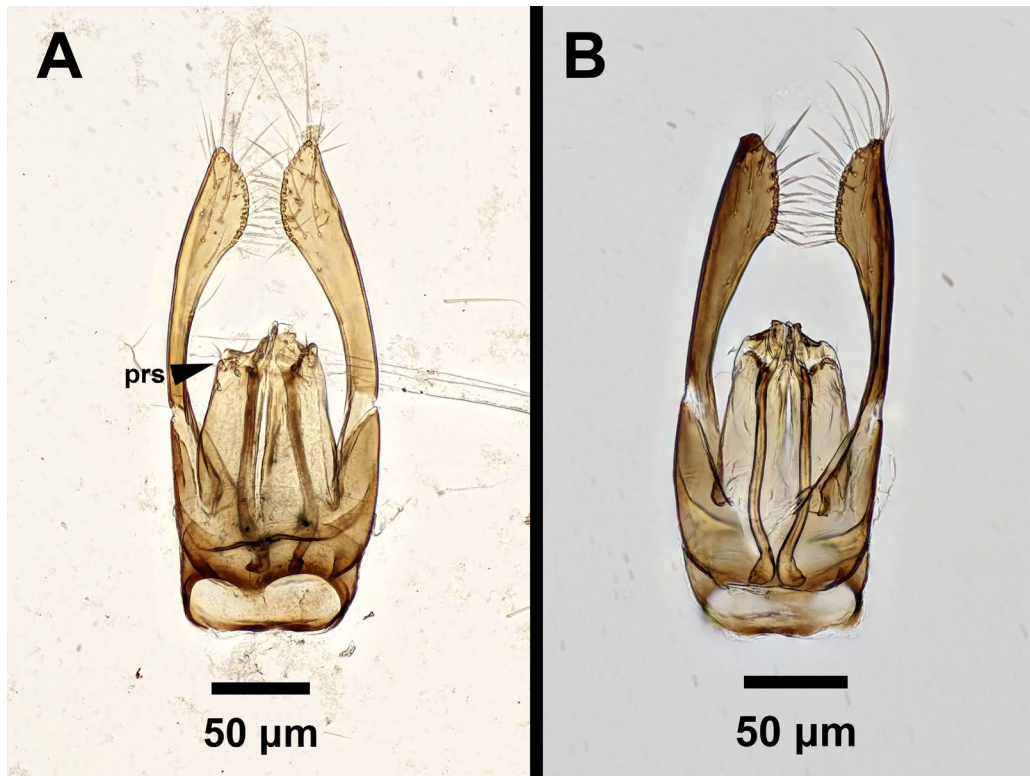


Figure 42. *Conostigmus pulchellus* Whittaker, 1930 male genitalia. A. Ventral view (PSUC_FEM 7369). B. Dorsal view (PSUC_FEM 76971). Abbreviation: apical parossicular setae (prs).

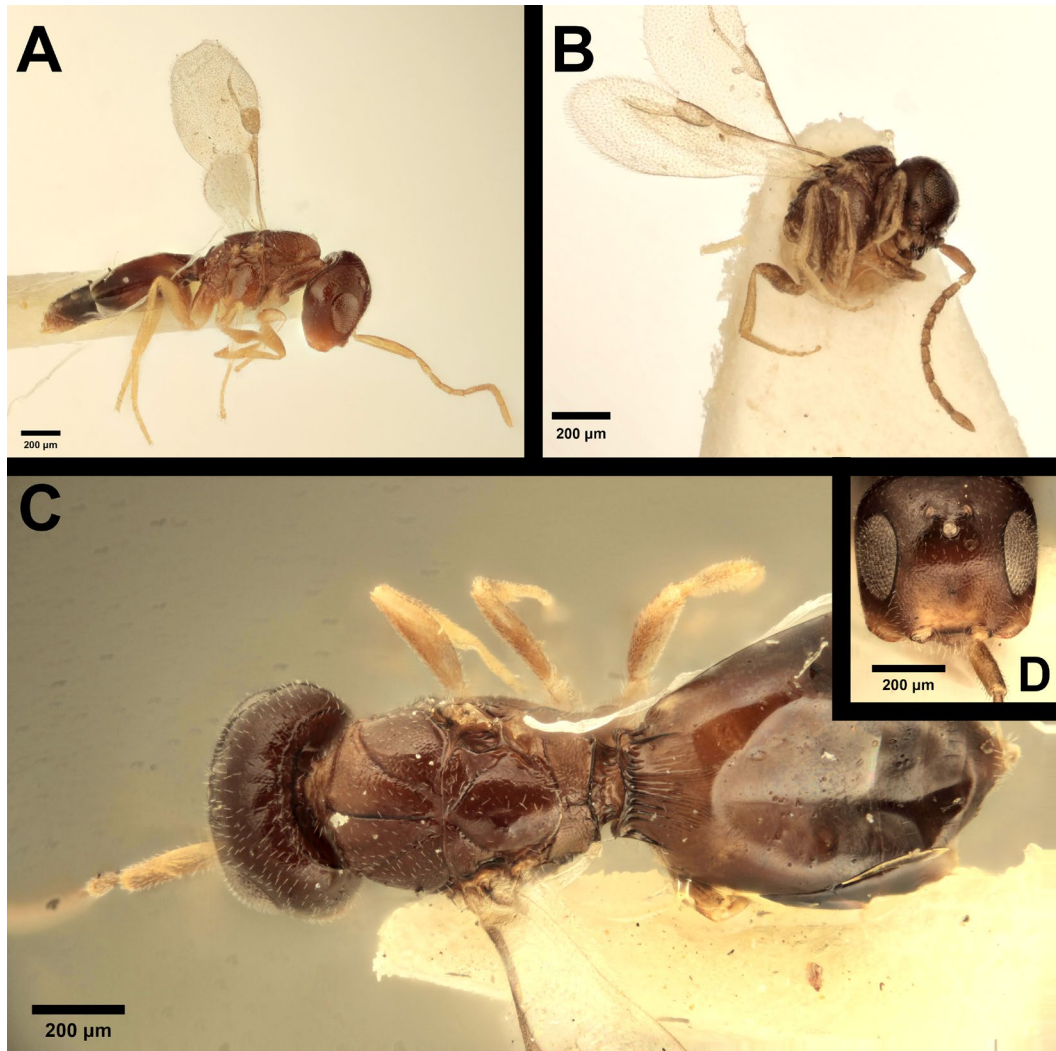


Figure 43. *Conostigmus quadratogenalis* Dessart & Cooper, 1975. A. Lateral habitus of holotype female (USNM_ENT 01339796). B. Habitus of allotype male (USNM_ENT 01212953). C. Dorsal view of allotype male (USNM_ENT 01212953). D. Frons of holotype female (USNM_ENT 01339796).

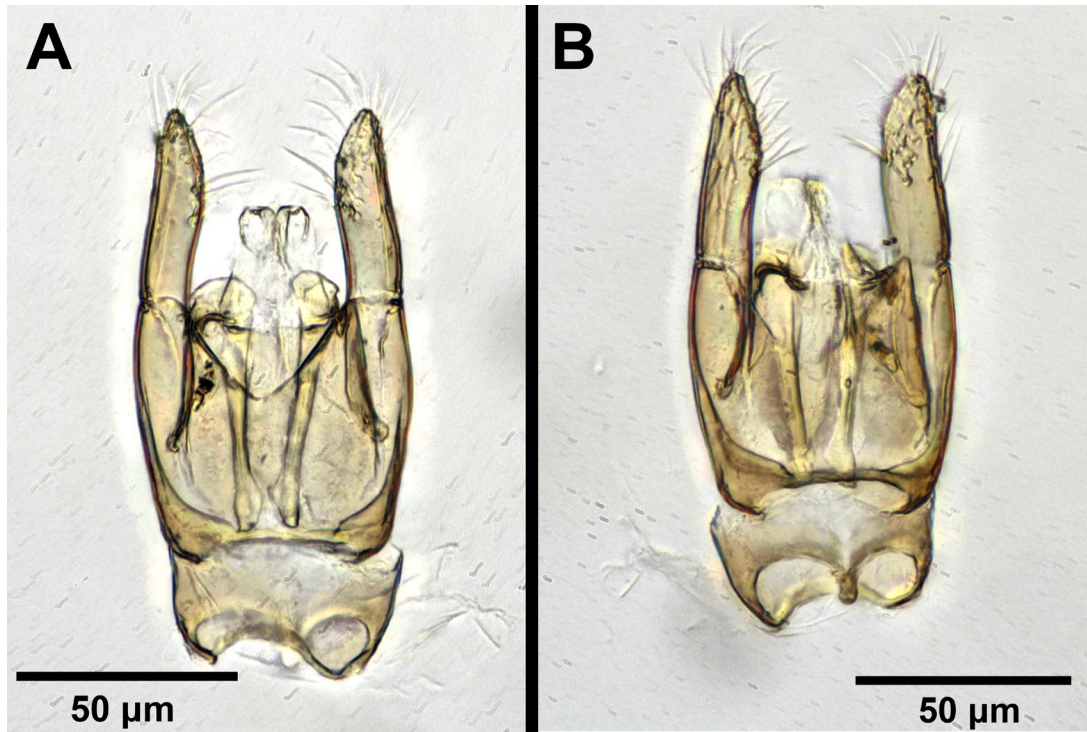


Figure 44. *Conostigmus quadratogenalis* Dessart & Cooper, 1975 allotype male genitalia (USNM_ENT 01212953). A. Dorsal view. B. Ventral view.

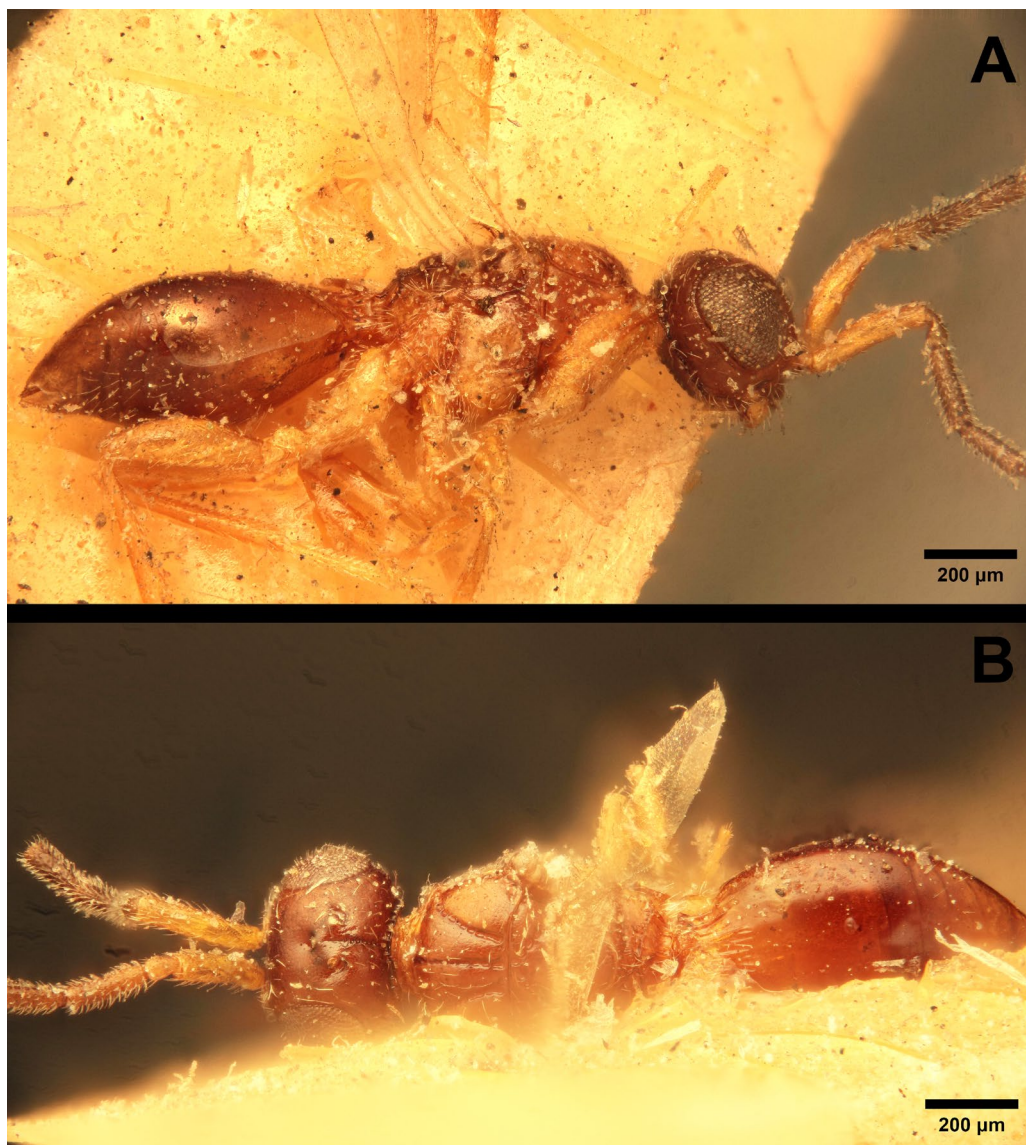


Figure 45. *Conostigmus rufoniger* (Provancher, 1888) male holotype (PSUC_FEM 148467). A. Lateral view. B. Dorsal view.



Figure 46. *Conostigmus schwarzi* (Ashmead, 1893) female lectotype (USNM_ENT 01339767). A. Lateral view, with a mite attached to the metasoma. B. Dorsal view.

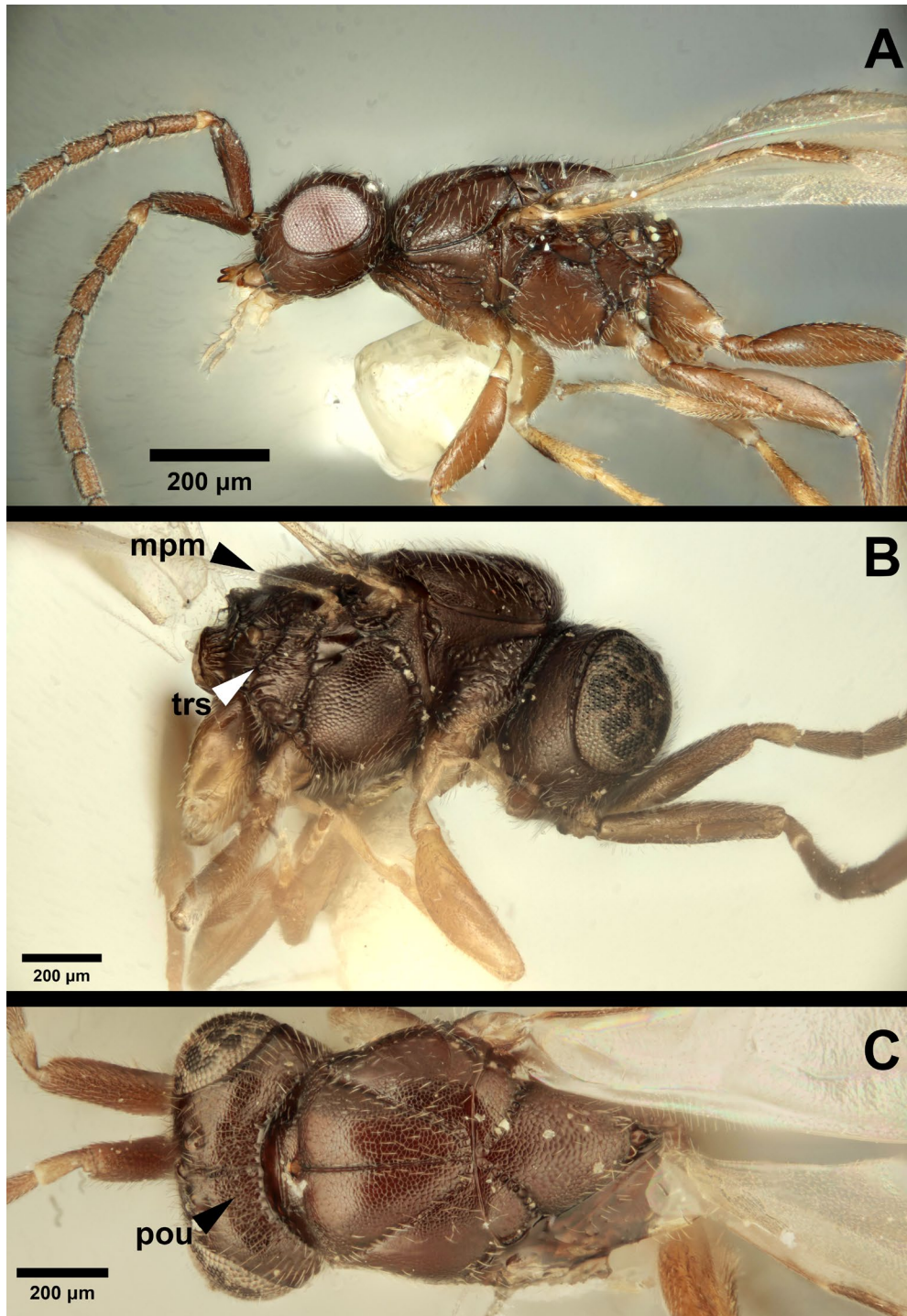


Figure 47. *Conostigmus triangularis* (Thomson, 1858). A. Lateral view of the male (PSUC_FEM 9773). B. Lateral view of female former type specimen of *C. ater* Fouts, synonym of *C. triangularis*. (USNMENT01339809). C. Dorsal view of female former type specimen of *C. ater* Fouts, synonym of *C. triangularis*. (USNMENT01339809). Abbreviations: mesopostscutellum (mpm); preoccipital lunula (pou); transverse striations on ventral metapleural area (trs).

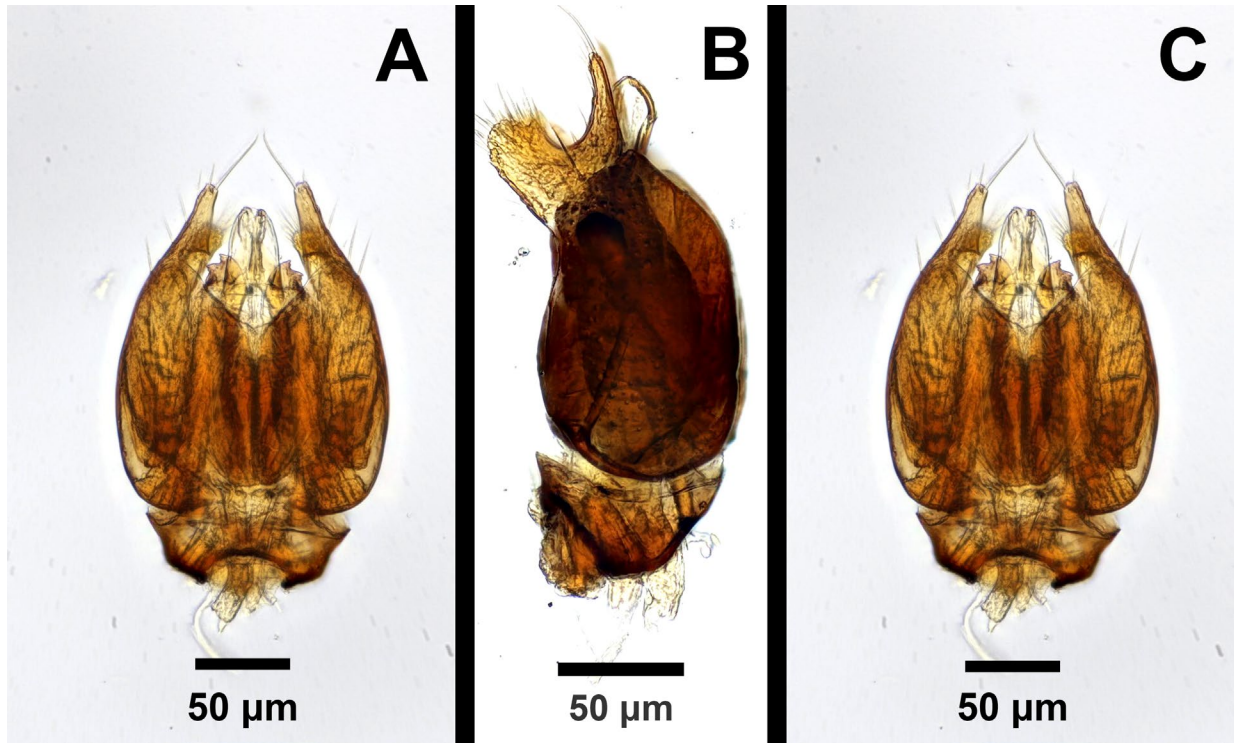


Figure 48. *Conostigmus triangularis* (Thomson, 1858) male genitalia (PSUC_FEM 148624). A. Ventral view. B. Lateral view, showing the bilobed harpe. C. Dorsal view.

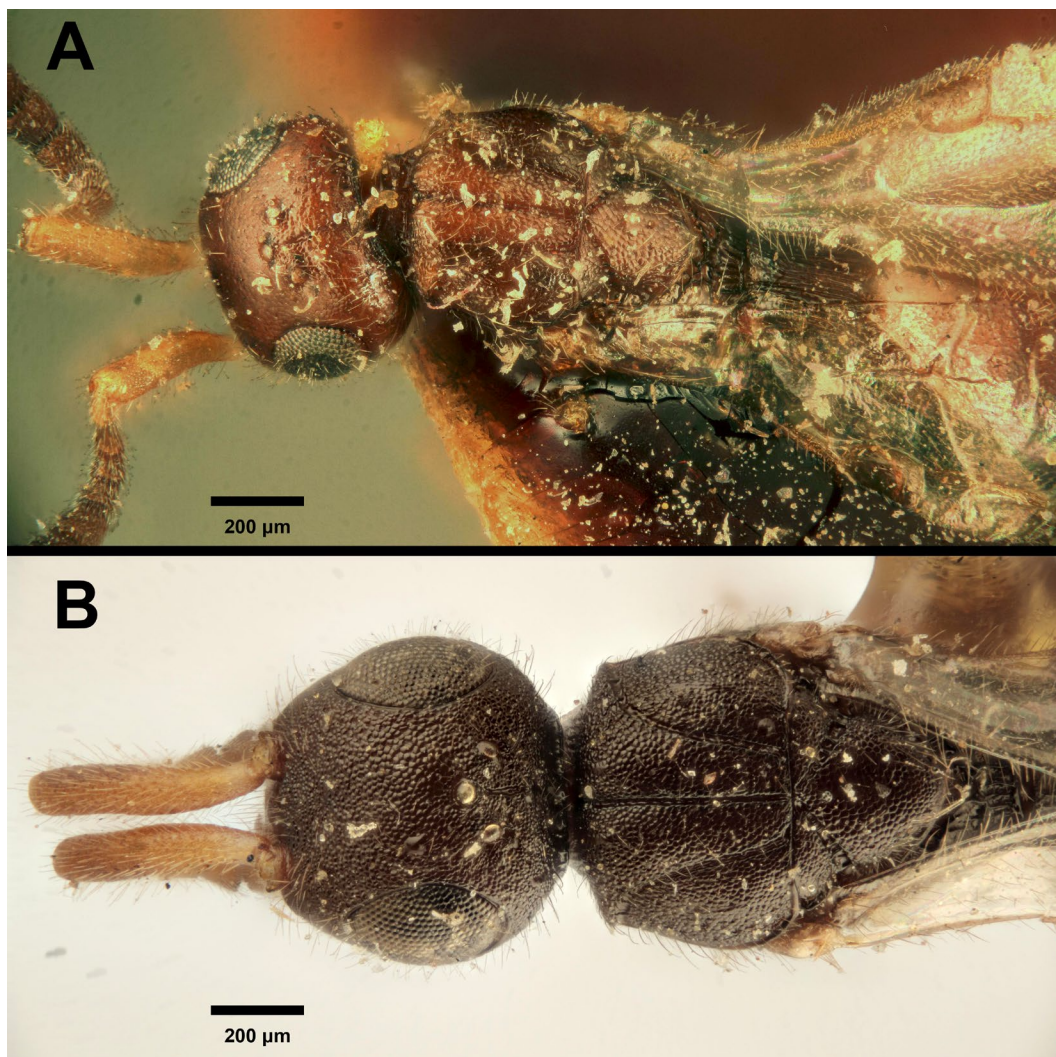


Figure 49. A. The female type specimen of *Conostigmus arietinus* Provancher, 1887 from the ULQC in dorsal view (PSUC_FEM 148706), now *Dendrocerus arietinus* (Provancher, 1887). B. The female holotype specimen of *Dendrocerus penmaricus* (Ashmead, 1893) at the USNM in dorsal view (USNM Type no. 58969) for comparison.

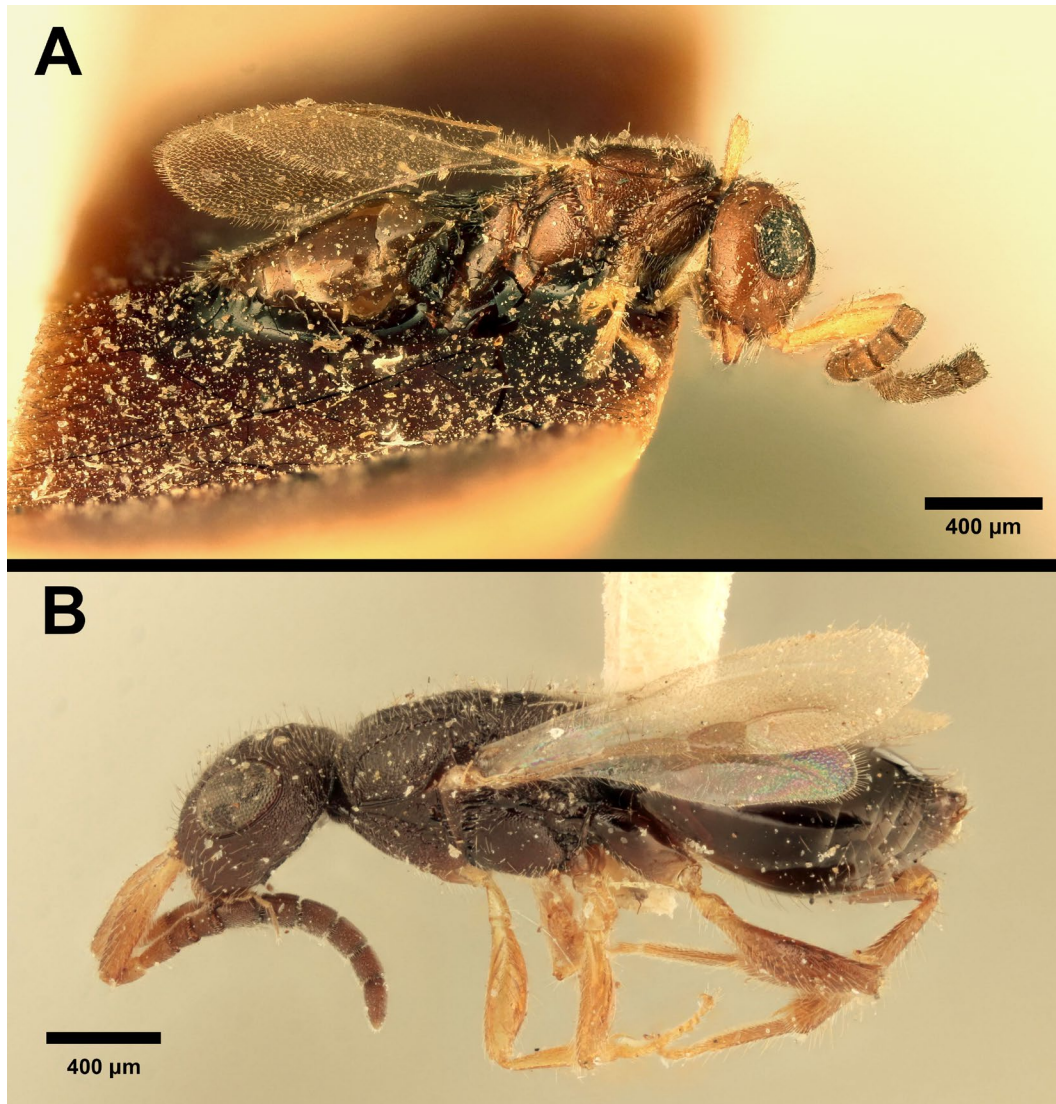


Figure 50. A. The female type specimen of *Conostigmus arietinus* Provancher, 1887 from the ULQC in lateral view (PSUC_FEM 148706), now *Dendrocerus arietinus* (Provancher, 1887). B. The female holotype specimen of *Dendrocerus penmaricus* (Ashmead, 1893) at the USNM in lateral view (USNM Type no. 58969) for comparison.



Figure 51. *Conostigmus dessarti* Trietsch and Mikó sp. nov., habitus of holotype male (CMNH 22751).

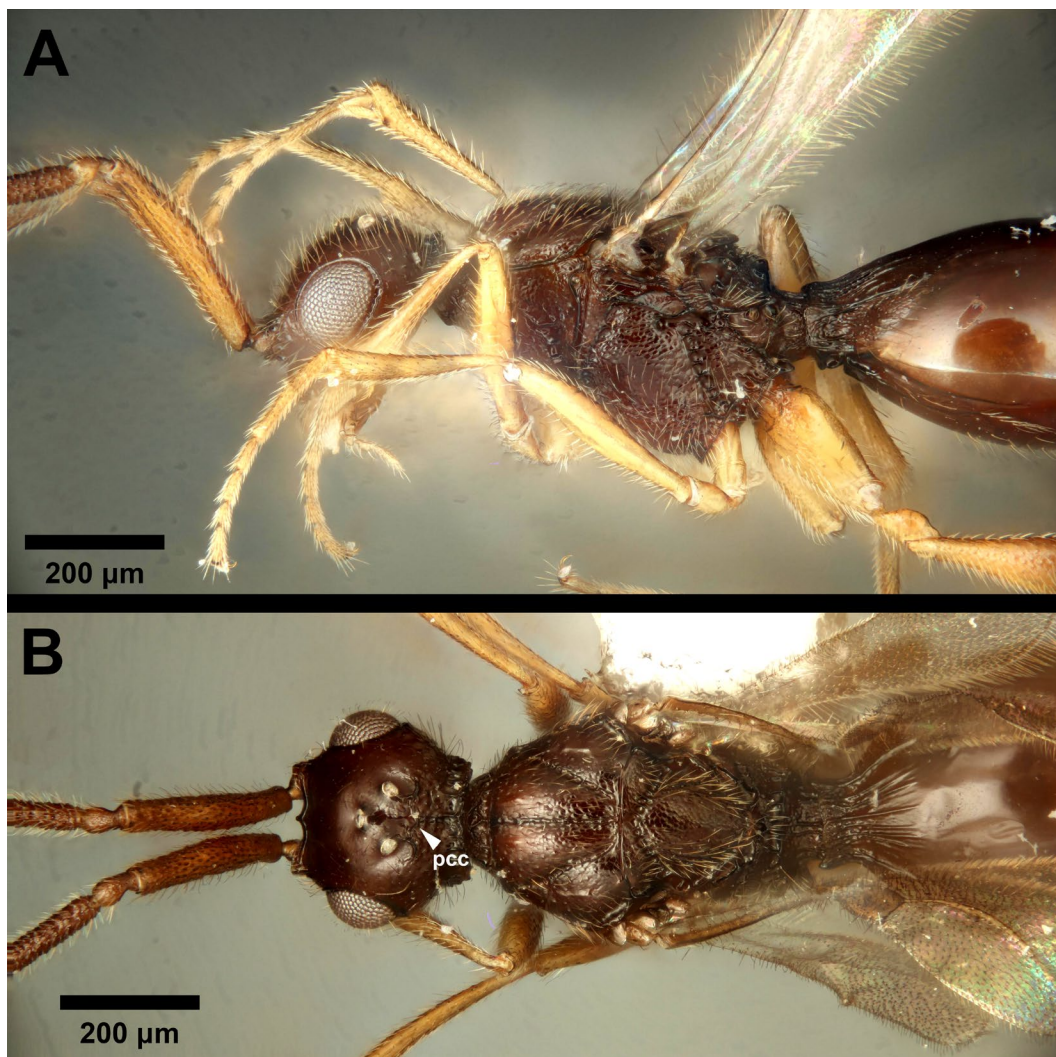


Figure 52. *Conostigmus dessarti* Trietsch and Mikó sp. nov., habitus of holotype male (CMNH 22751). A. Lateral view. B. Dorsal view. Abbreviation: postocellar carina (pcc).

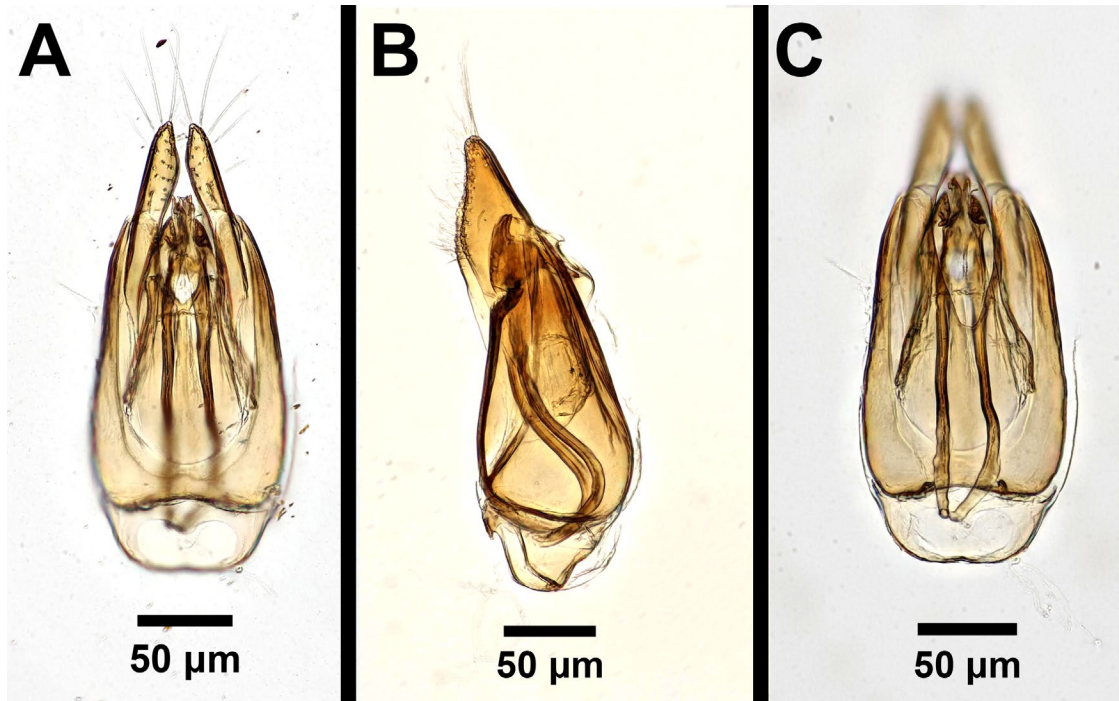


Figure 53. *Conostigmus dessarti* Trietsch and Mikó sp. nov., male genitalia (PSUC_FEM 34216). A. Ventral view. B. Lateral view. C. Dorsal view.



Figure 54. *Conostigmus duncani* Trietsch sp. nov., male holotype (PSUC_FEM 50384).

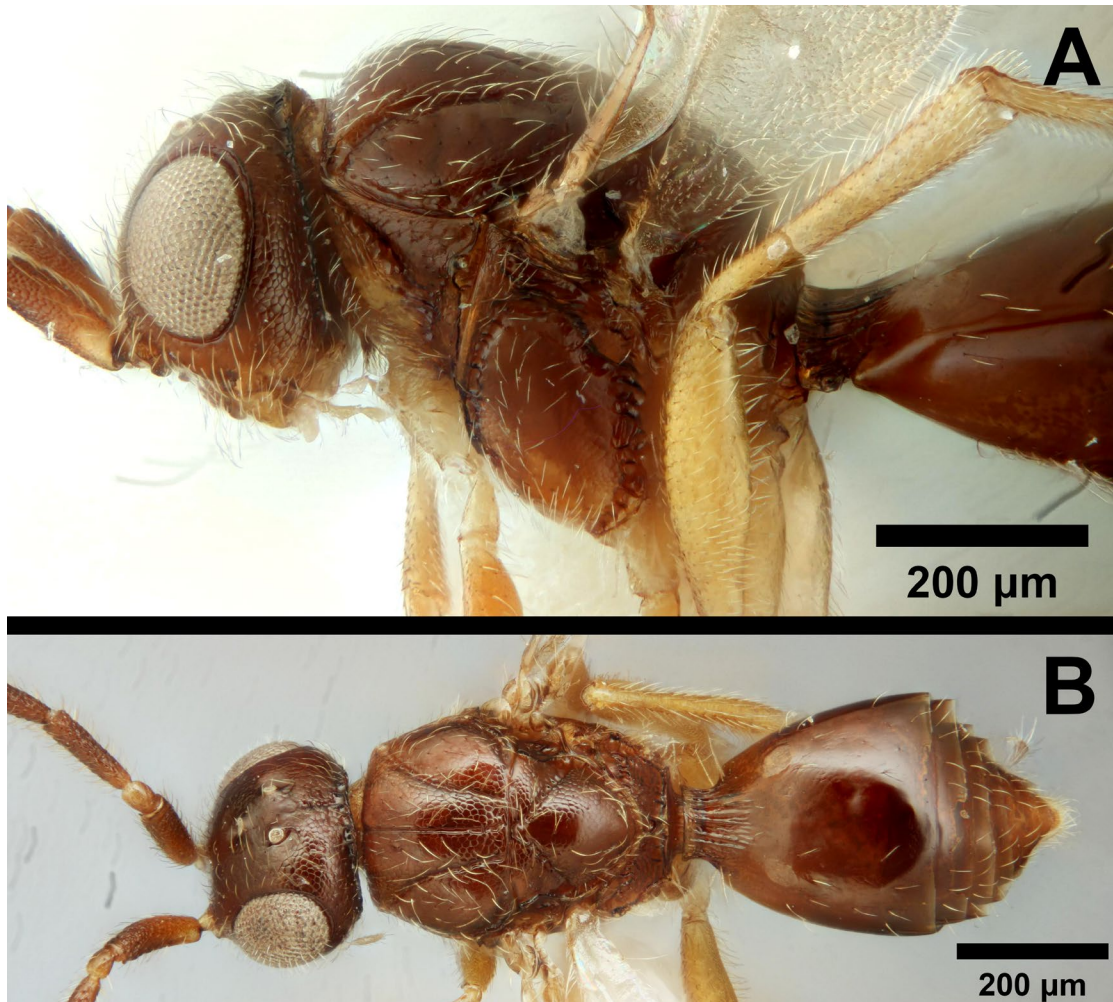


Figure 55. *Conostigmus duncani* Trietsch sp. nov. A. Lateral view (PSUC_FEM 50388). B. Dorsal view (PSUC_FEM 50384).

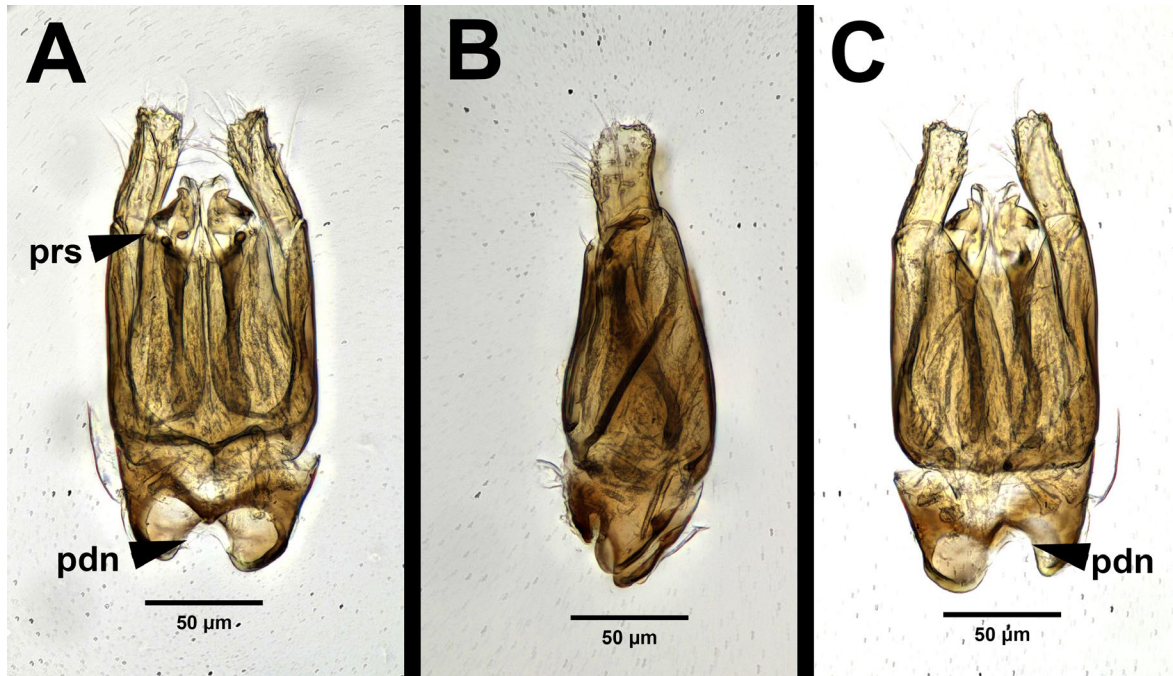


Figure 56. *Conostigmus duncani* Trietsch sp. nov., male genitalia (PSUC_FEM 50380) A. Ventral view. B. Lateral view. C. Dorsal view. Abbreviations: apical parossicular setae (prs); proximodorsal notch of cupula (pdn; in this case, longer than wide).



Figure 57. *Conostigmus franzinii* Trietsch and Mikó sp. nov., habitus of holotype male (PSUC_FEM 287553).

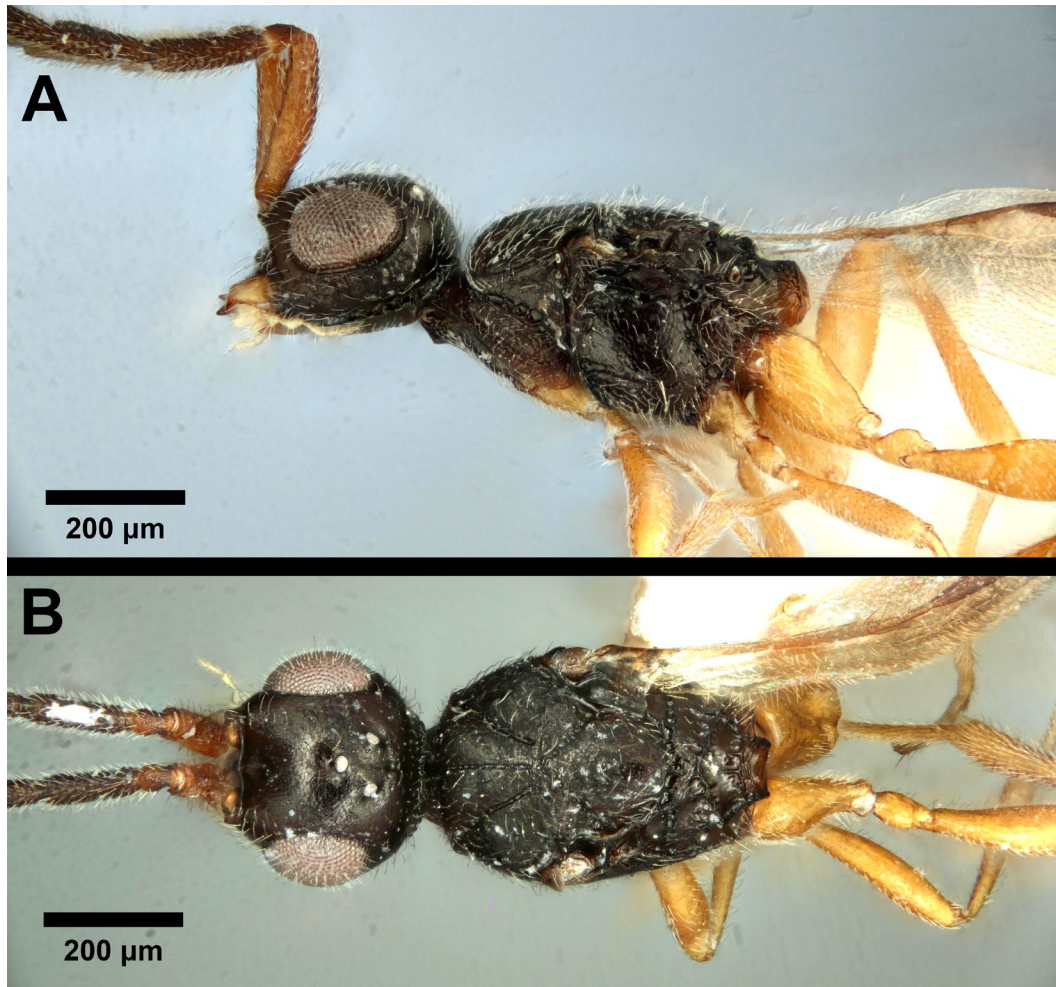


Figure 58. *Conostigmus franzinii* Trietsch and Mikó sp. nov., male (PSUC_FEM 15835). A. Lateral view. B. Dorsal view.

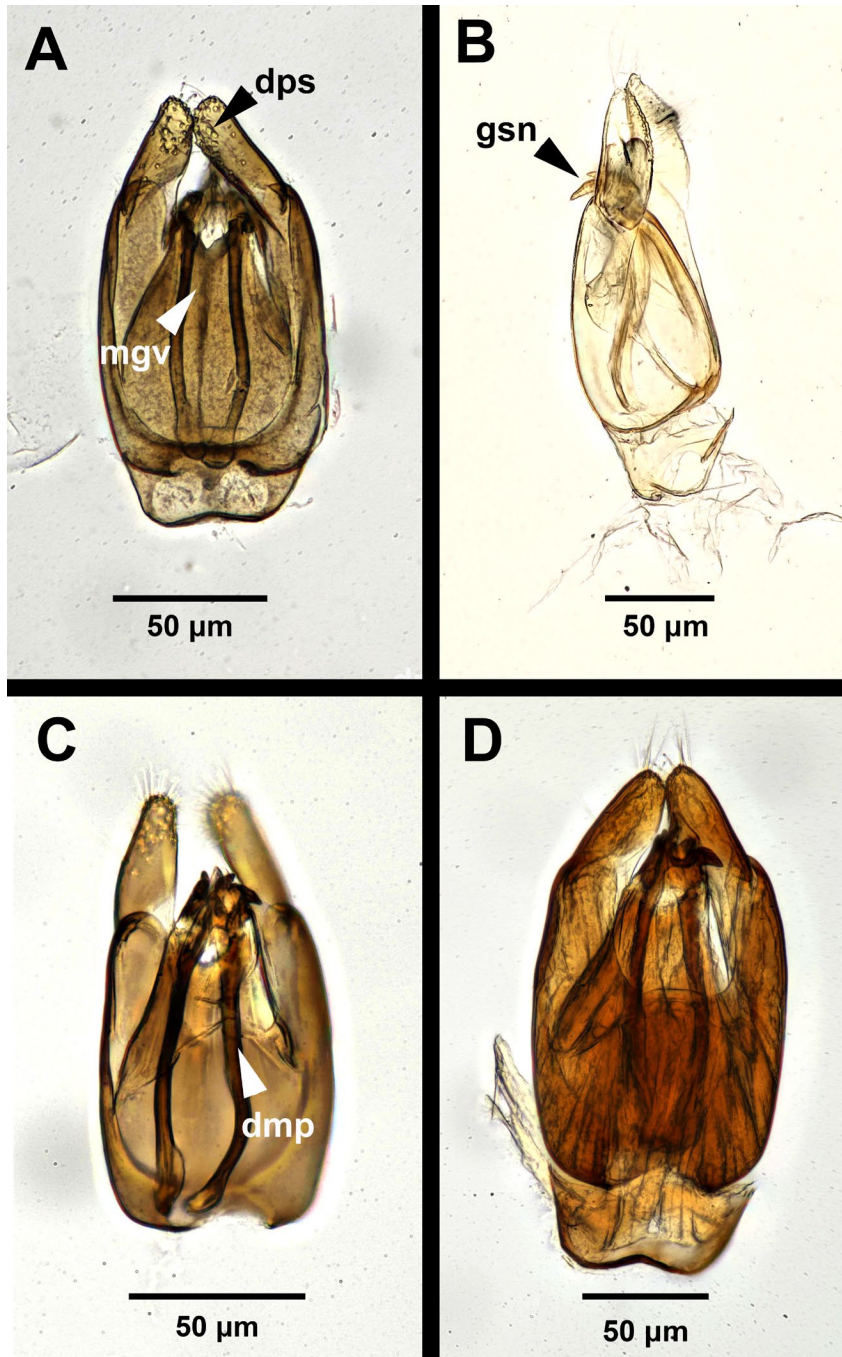


Figure 59. *Conostigmus franzinii* Trietsch and Mikó sp. nov., male genitalia A. Ventral view (INHS 287580). B. Lateral view (PSUC_FEM 50399). C. Dorsal view of Paelearctic male from Sweden without a pronounced dorsomedian projection of the gonostyle–volsella complex (PSUC_FEM 43326). D. Dorsal view of male with a pronounced dorsomedian projection of the gonostyle–volsella complex (PSUC_FEM 86113). Abbreviations: dorsomedian projection of the gonostyle–volsella complex (dmp); dense patch of setae on the distoventral edge of the harpe (dps); gonossiculus spine (gsn); medioventral ridge of the gonostyle–volsella complex (mgv).

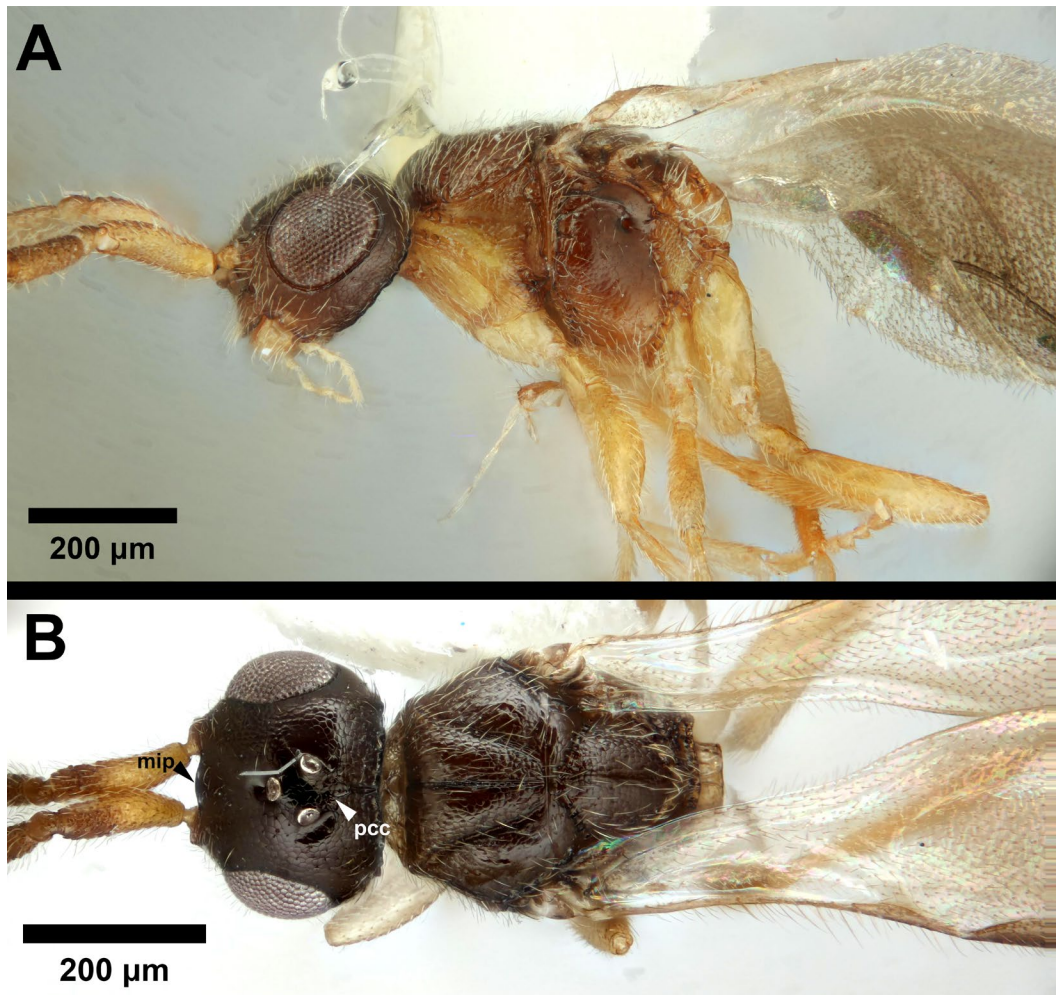


Figure 60. *Conostigmus johnsoni* Trietsch and Mikó sp. nov., males. A. Lateral view (PSUC_FEM 22819). B. Dorsal view (PSUC_FEM 16076). Abbreviations: median process on intertorular carina (mip; projection blunt in this case); postocellar carina (pcc).

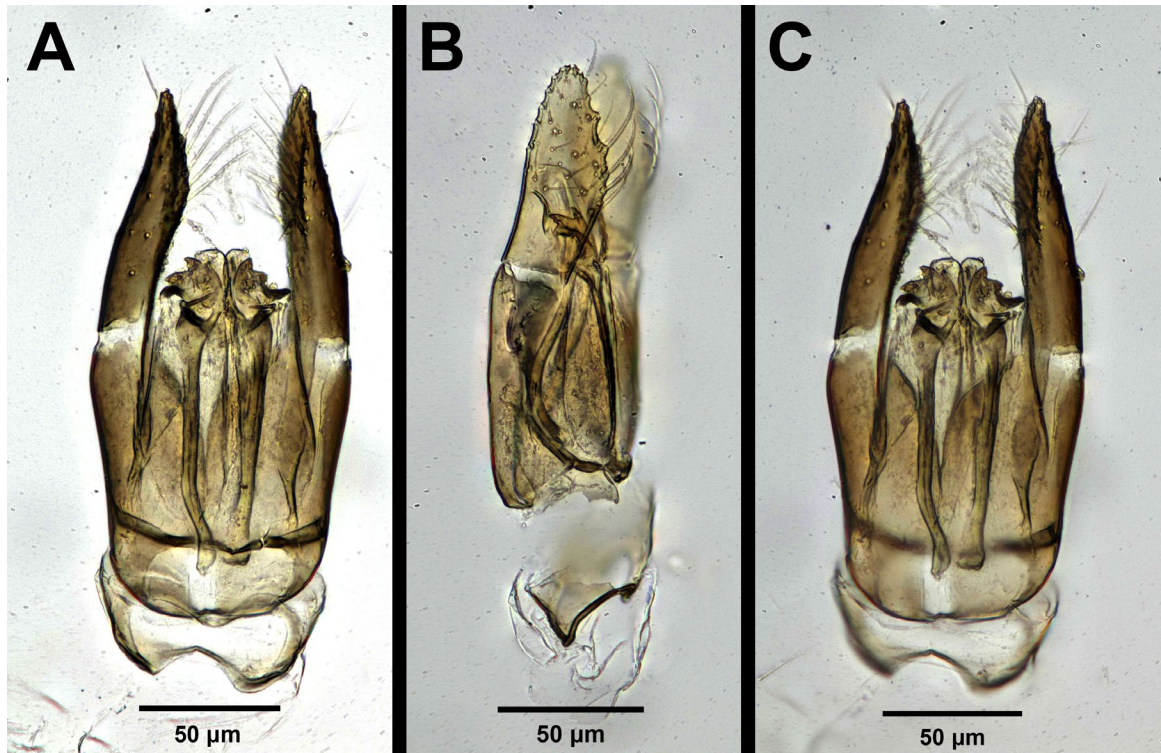


Figure 61. *Conostigmus johnsoni* Trietsch and Mikó sp. nov., male genitalia. A. Ventral view (PSUC_FEM 68976). B. Lateral view (PSUC_FEM 110). C. Dorsal view (PSUC_FEM 68976).

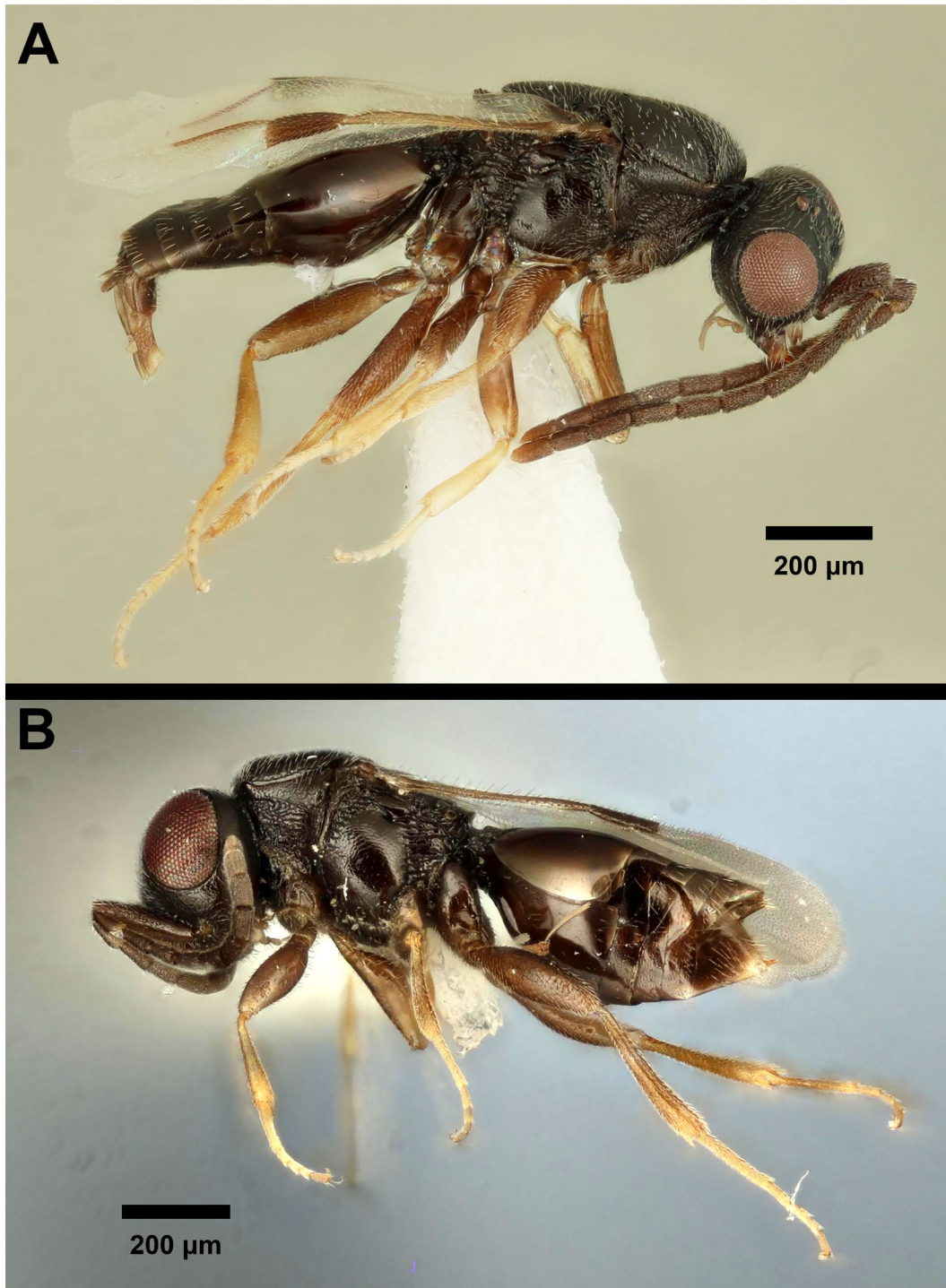


Figure 62. *Conostigmus lepus* Trietsch sp. nov., lateral view. A. Holotype male (PSUC_FEM 32888). B. Paratype female (PSUC_FEM 34292).

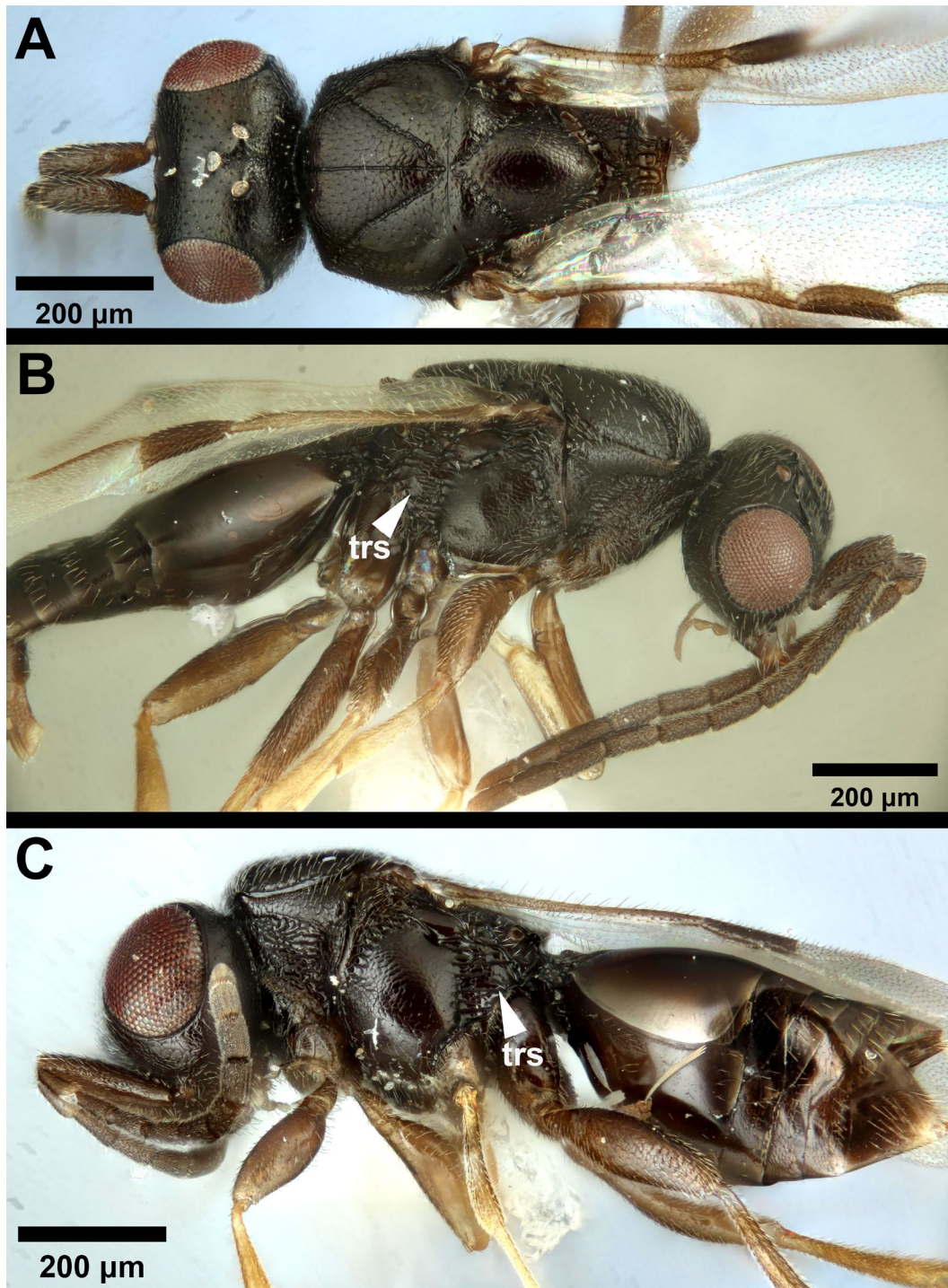


Figure 63. *Conostigmus lepus* Trietsch sp. nov. A. Paratype male, dorsal view (PSUC_FEM 33132). B. Holotype male, lateral view (PSUC_FEM 32888). C. Paratype female, lateral view (PSUC_FEM 34292). Abbreviation: transverse striations on ventral metapleural area (trs).

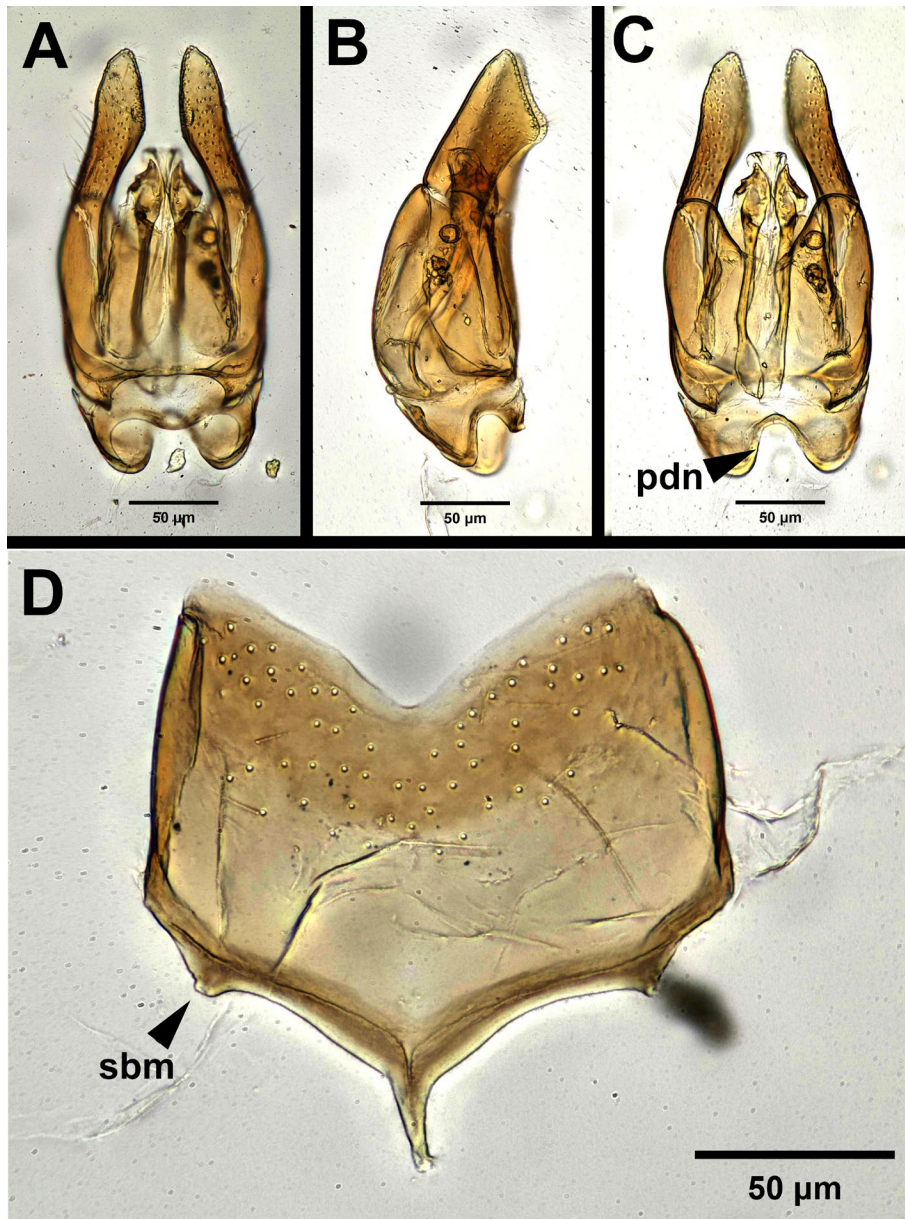


Figure 64. *Conostigmus lepus* Trietsch sp. nov., male genitalia. A. Ventral view (PSUC_FEM 34295). B. Lateral view (PSUC_FEM 34295). C. Dorsal view (PSUC_FEM 34295). D. S9 (UCRC_ENT 227058). Abbreviations: proximodorsal notch of cupula (pdn; in this case, longer than wide); submedial projections on proximal margin of S9 (sbm).



Figure 65. *Conostigmus longiharpes* Trietsch sp. nov., habitus of male holotype (PSUC_FEM 88145).

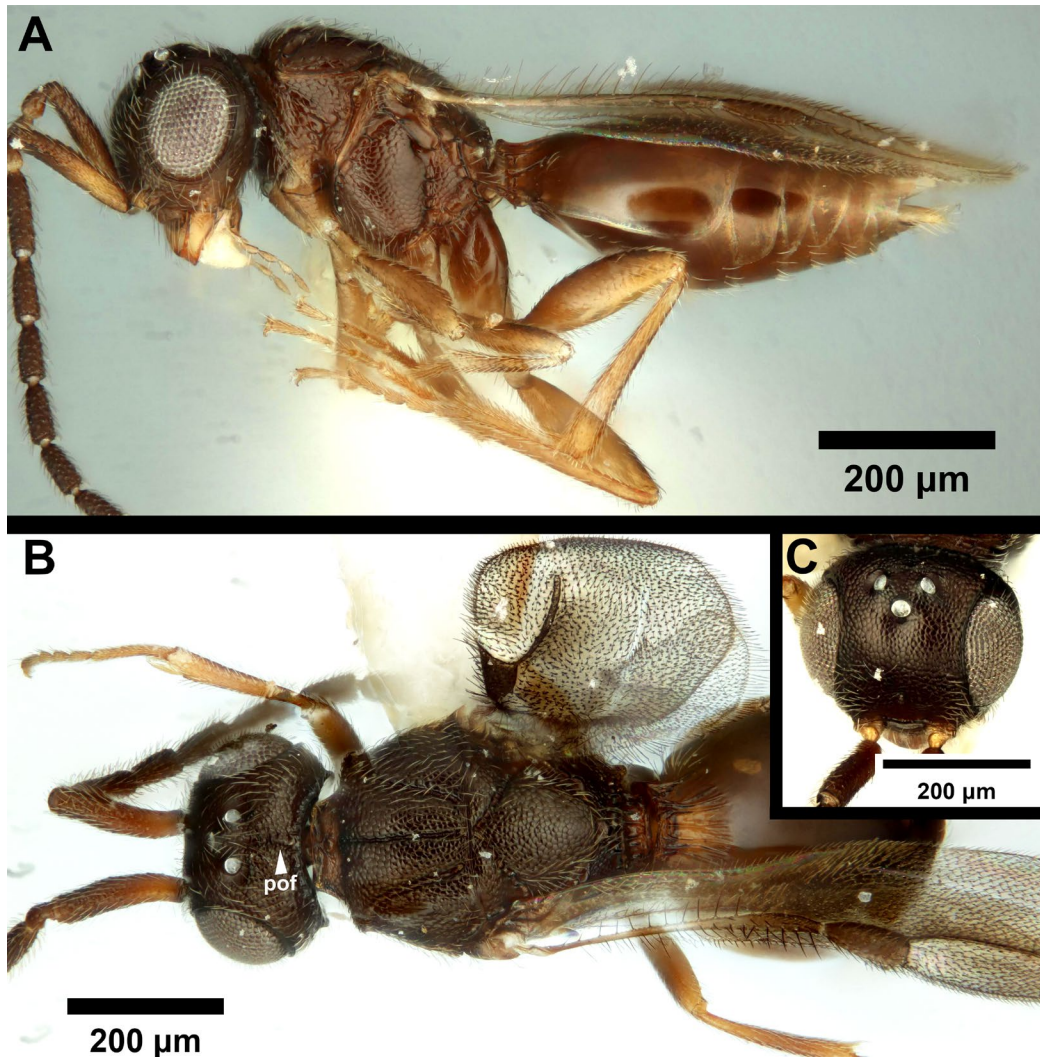


Figure 66. *Conostigmus longiharpes* Trietsch sp. nov. A. Lateral view (PSUC_FEM 88145). B. Dorsal view (PSUC_FEM 34295). C. Anterior view of frons. (PSUC_FEM 34295). Abbreviation: preoccipital furrow (pof).

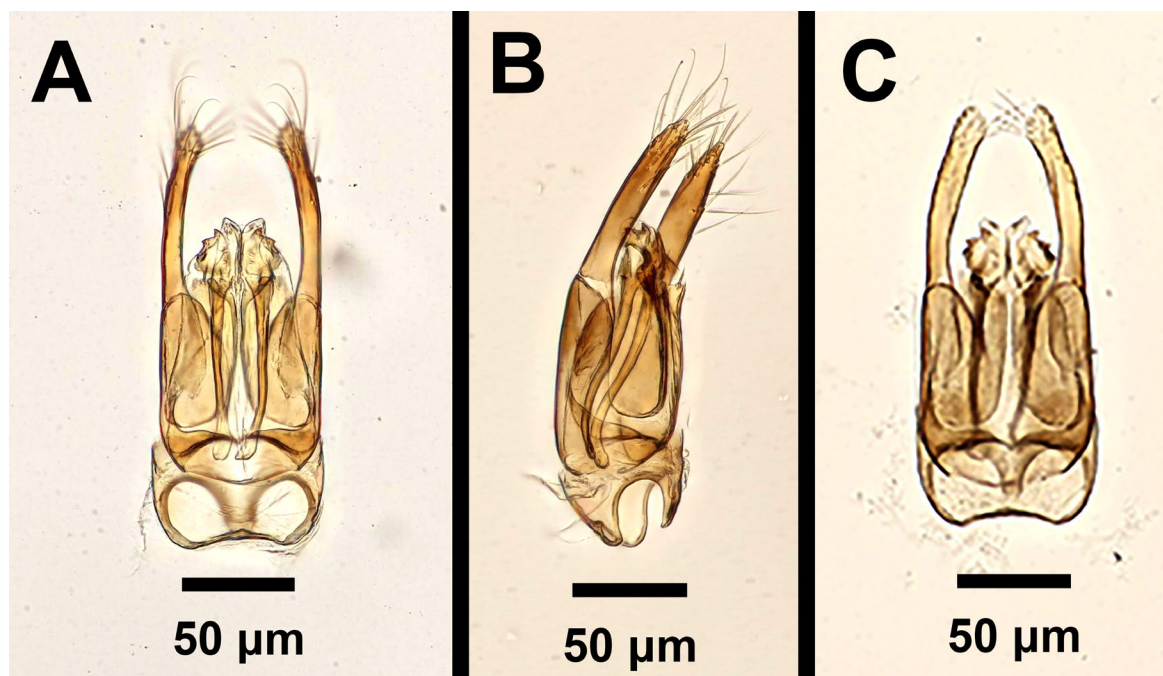


Figure 67. *Conostigmus longiharpes* Trietsch sp. nov., male genitalia. A. Ventral view (PSUC_FEM 26707). B. Lateral view (PSUC_FEM 27056). C. Dorsal view (PSUC_FEM 88192).

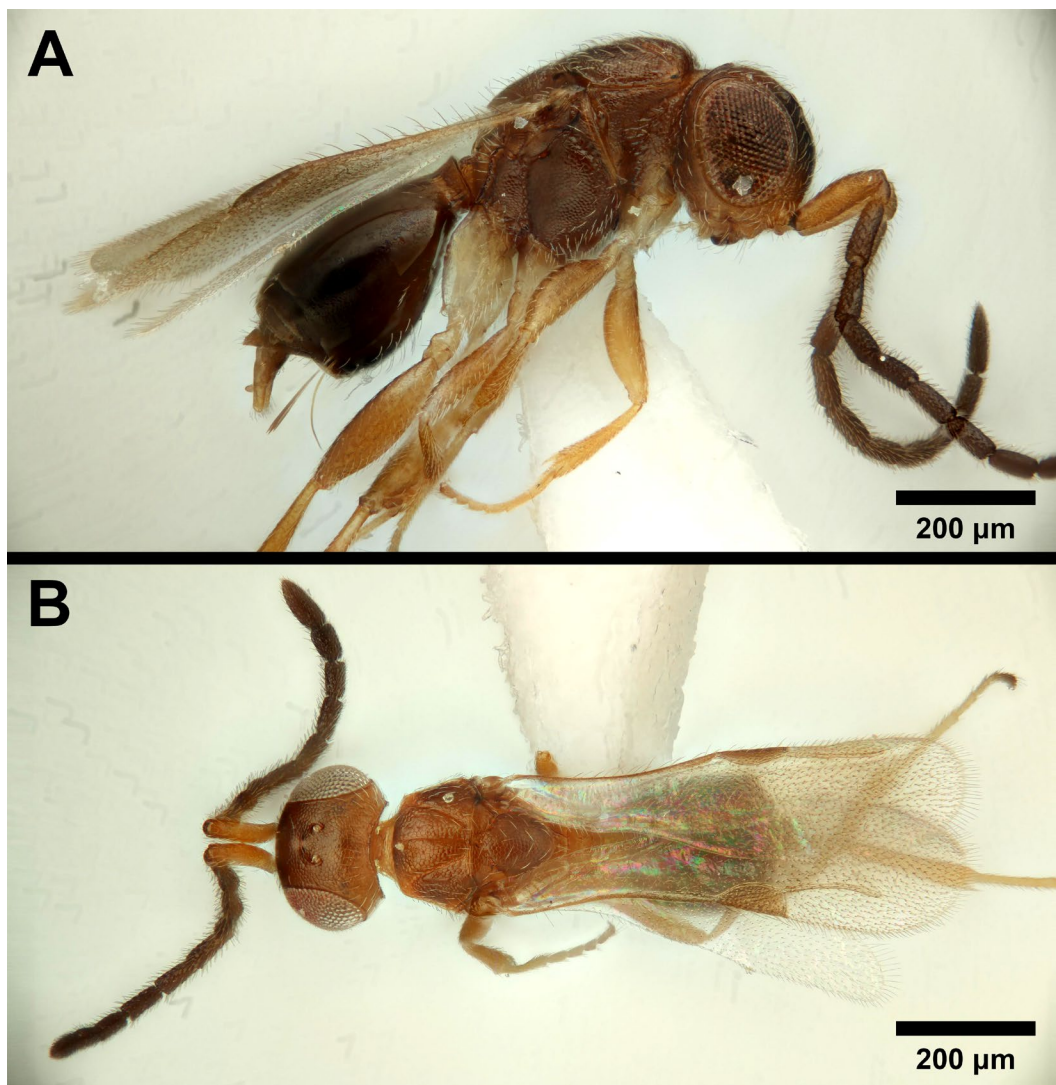


Figure 68. *Conostigmus michaeli* Trietsch sp. nov., male holotype (PSUC_FEM 34232). A. Lateral view. B. Dorsal view.



Figure 69. *Conostigmus michaeli* Trietsch sp. nov., male genitalia. A. Ventral view (PSUC_FEM 34214). B. Lateral view (PSUC_FEM 4296). C. Dorsal view (PSUC_FEM 34214).

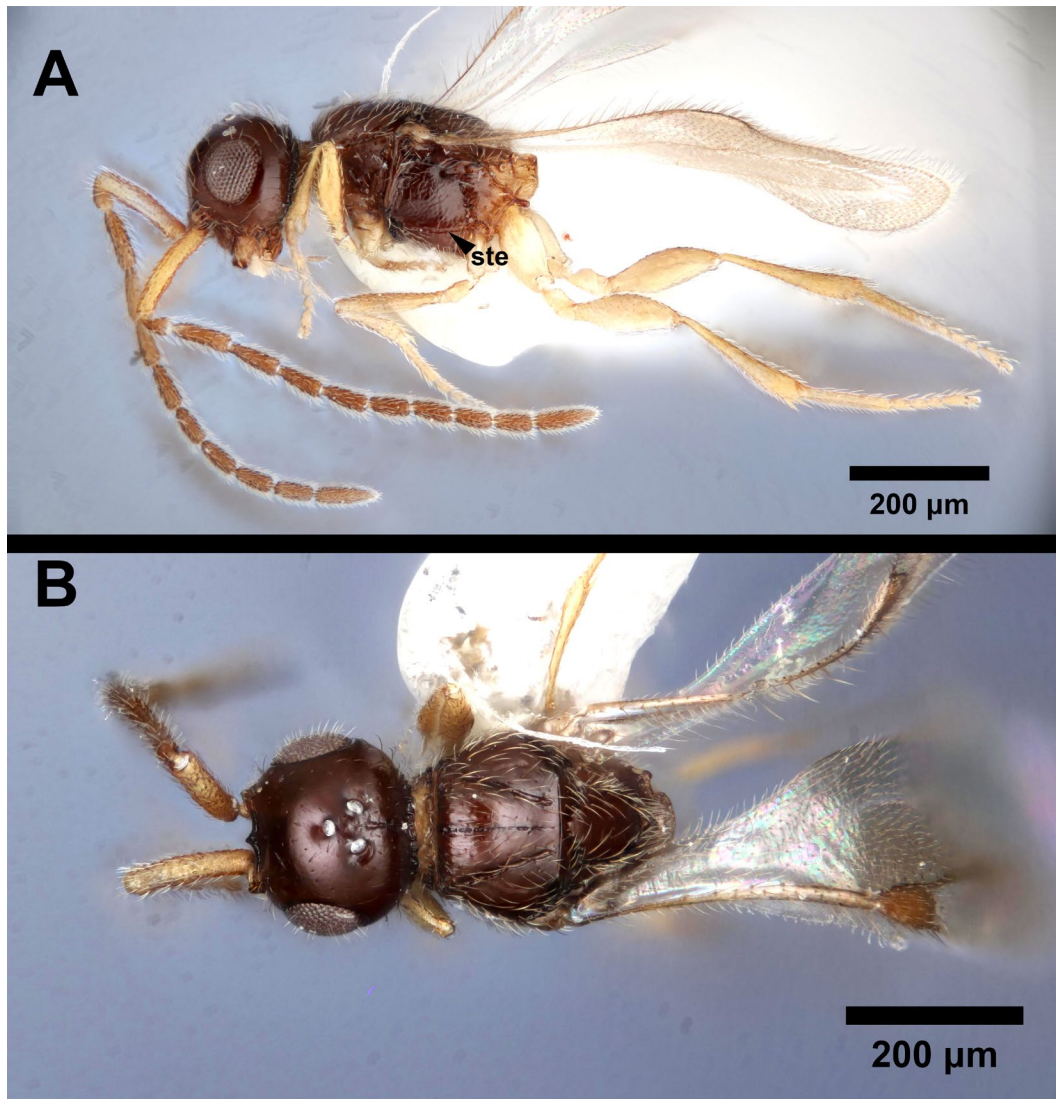


Figure 70. *Conostigmus minumus* Trietsch and Mikó sp. nov., holotype male (CMNH 22741). A. Lateral view. B. Dorsal view. Abbreviation: sternaulus (ste).

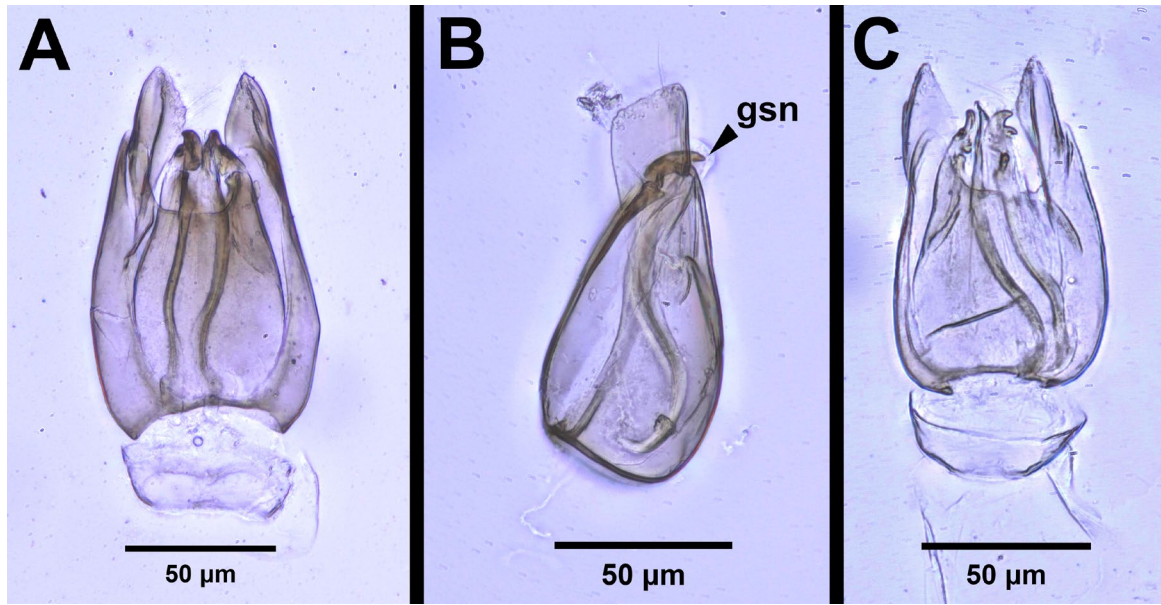


Figure 71. *Conostigmus minumus* Trietsch and Mikó sp. nov., male genitalia. A. Ventral view. (CMNH 22741). B. Lateral view (CMNH 22743). C. Dorsal view. (CMNH 22732). Abbreviation: gonossiculus spine (gsn).



Figure 72. *Conostigmus muratorei* Trietsch sp. nov., habitus of male holotype (PSUC_FEM 34093).

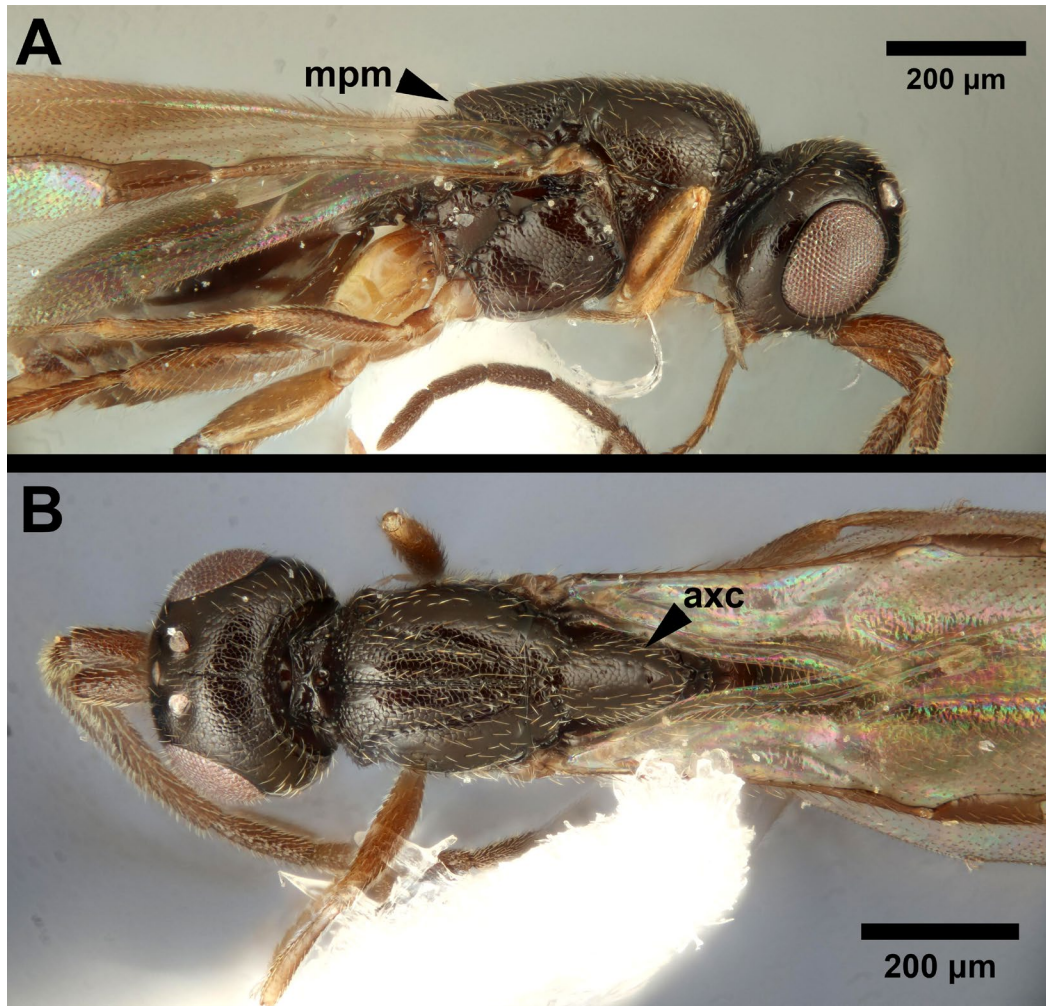


Figure 73. *Conostigmus muratorei* Trietsch sp. nov., habitus of male holotype (PSUC_FEM 34093). A. Lateral. B. Dorsal. Abbreviations: axillular carinae (axc); mesopostscutellum (mpm).

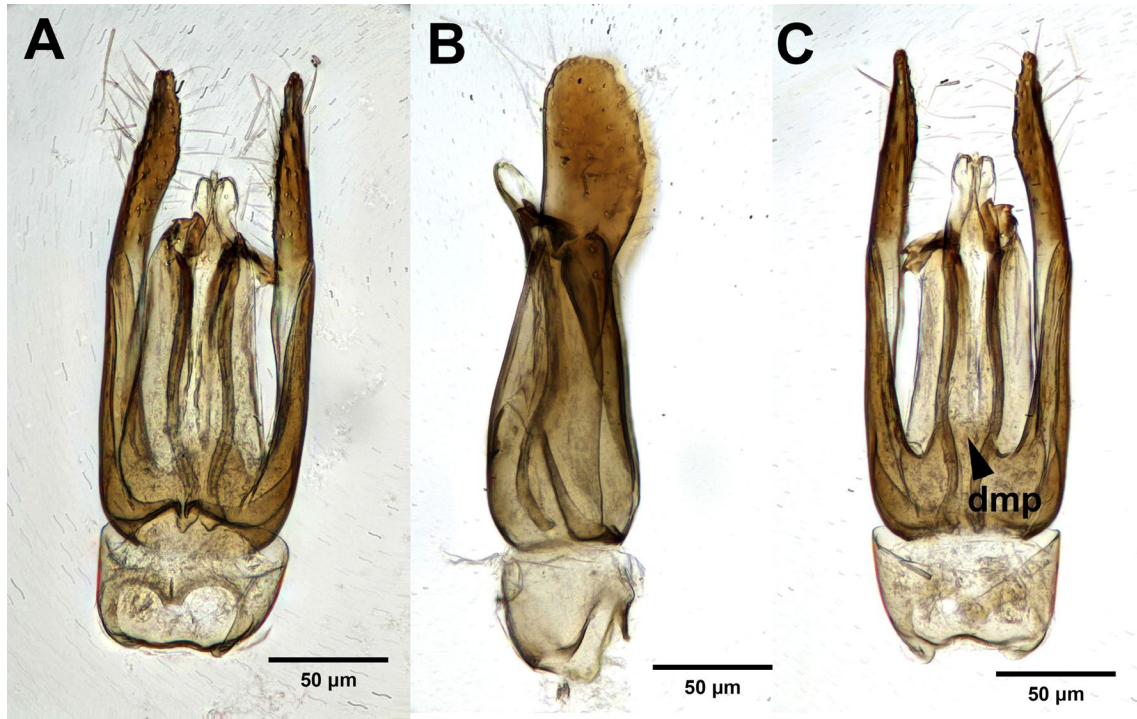


Figure 74. *Conostigmus muratorei* Trietsch sp. nov., male genitalia. A. Ventral (PSUC_FEM 9055). B. Lateral (UCRC_457090). C. Dorsal (PSUC_FEM 9055). Abbreviation: dorsomedian projection of the gonostyle–volsella complex (dmp).



Figure 75. *Conostigmus musettiae* Trietsch and Mikó sp. nov., habitus of holotype male (PSUC_FEM 9027).

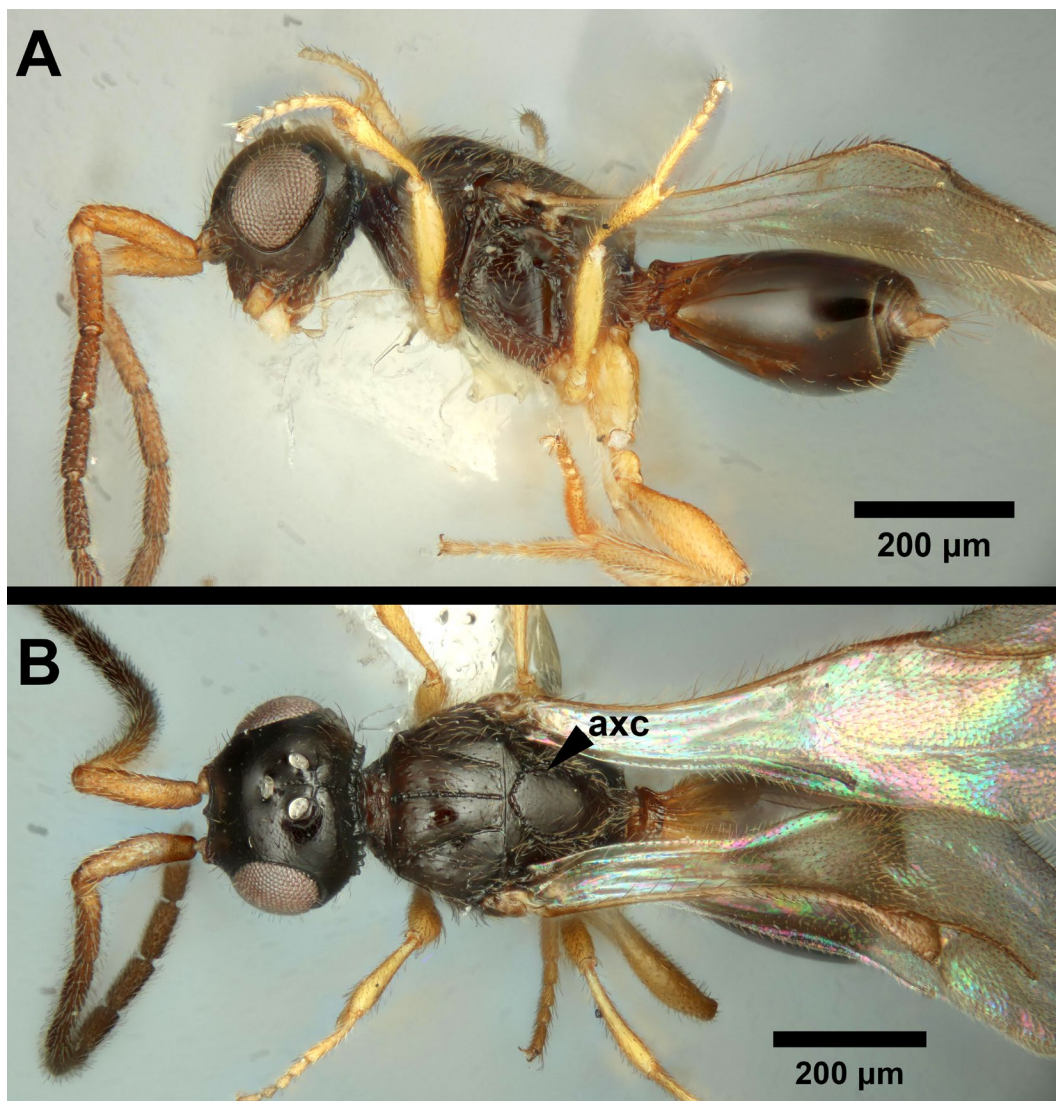


Figure 76. *Conostigmus musettiae* Trietsch and Mikó sp. nov., holotype male (PSUC_FEM 9027). A. Lateral view. B. Dorsal view. Abbreviation: axillular carinae (axc).

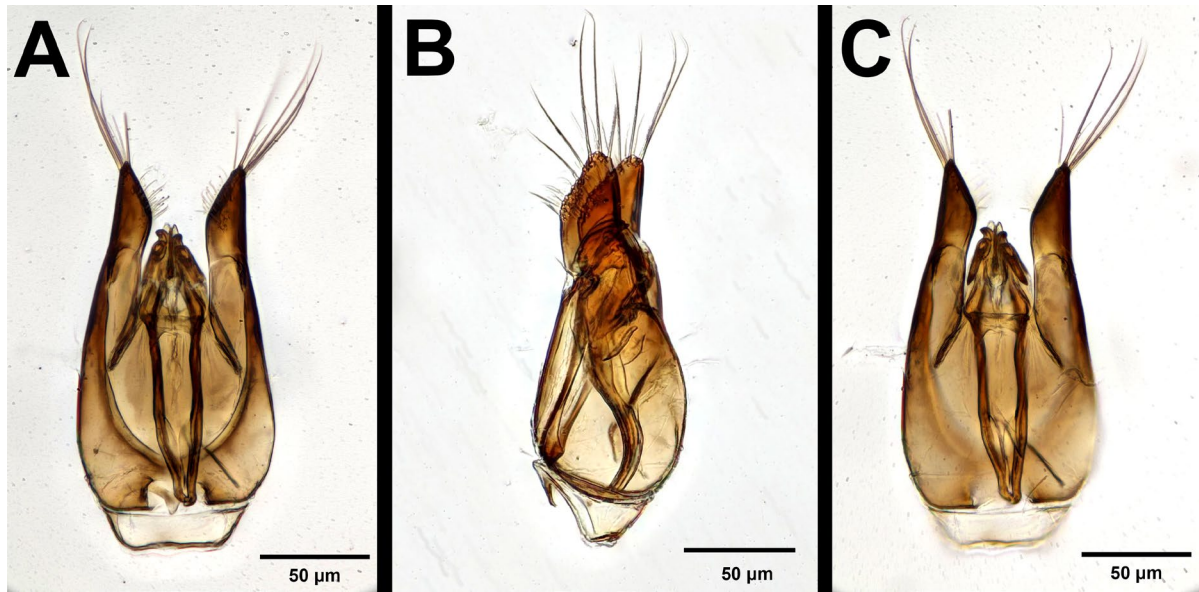


Figure 77. *Conostigmus musettiae* Trietsch and Mikó sp. nov., male genitalia of holotype male (PSUC_FEM 6725). A. Ventral view. B. Lateral view. C. Dorsal view.



Figure 78. *Conostigmus rosemaryae* Trietsch sp. nov., male holotype (CMNH 22770).

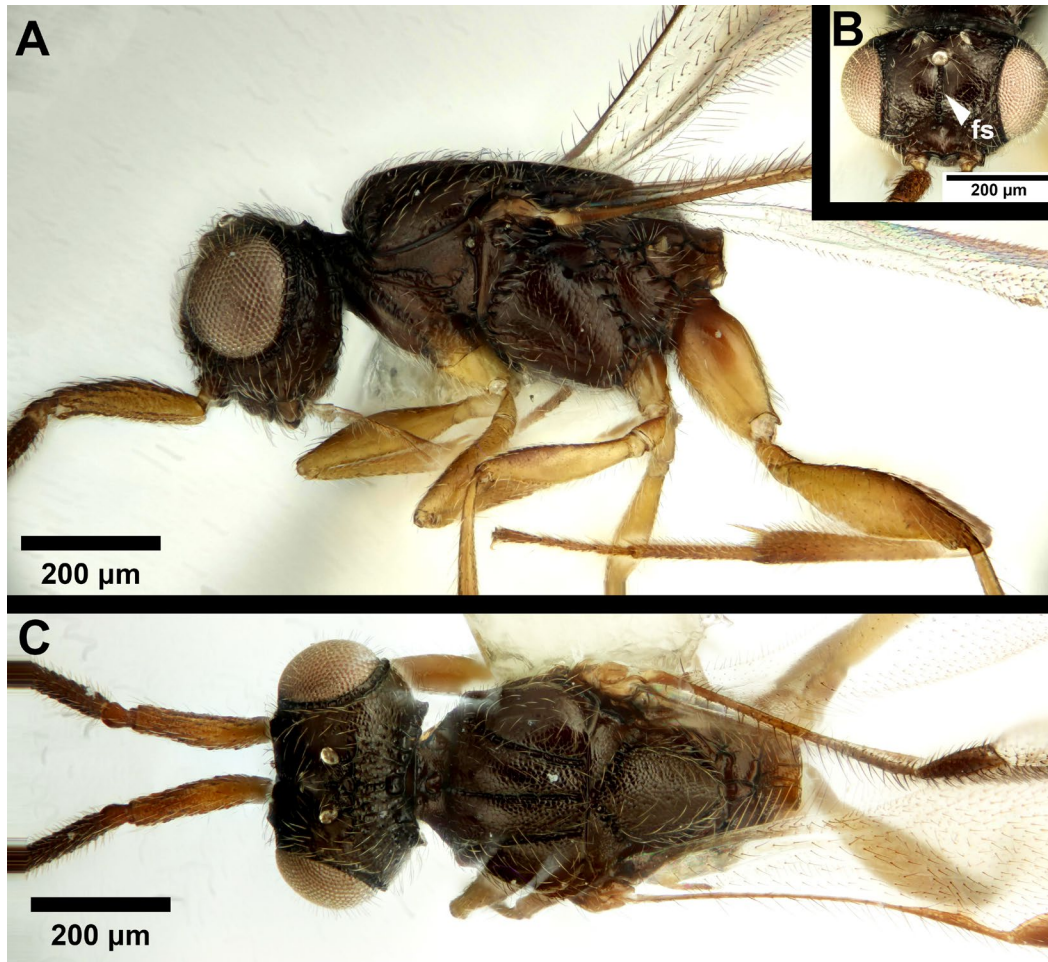


Figure 79. *Conostigmus rosemaryae* Trietsch sp. nov., male holotype (CMNH 22770). A. Lateral. B. Anterior view showing facial sulcus. C. Dorsal. Abbreviation: facial sulcus (fs).

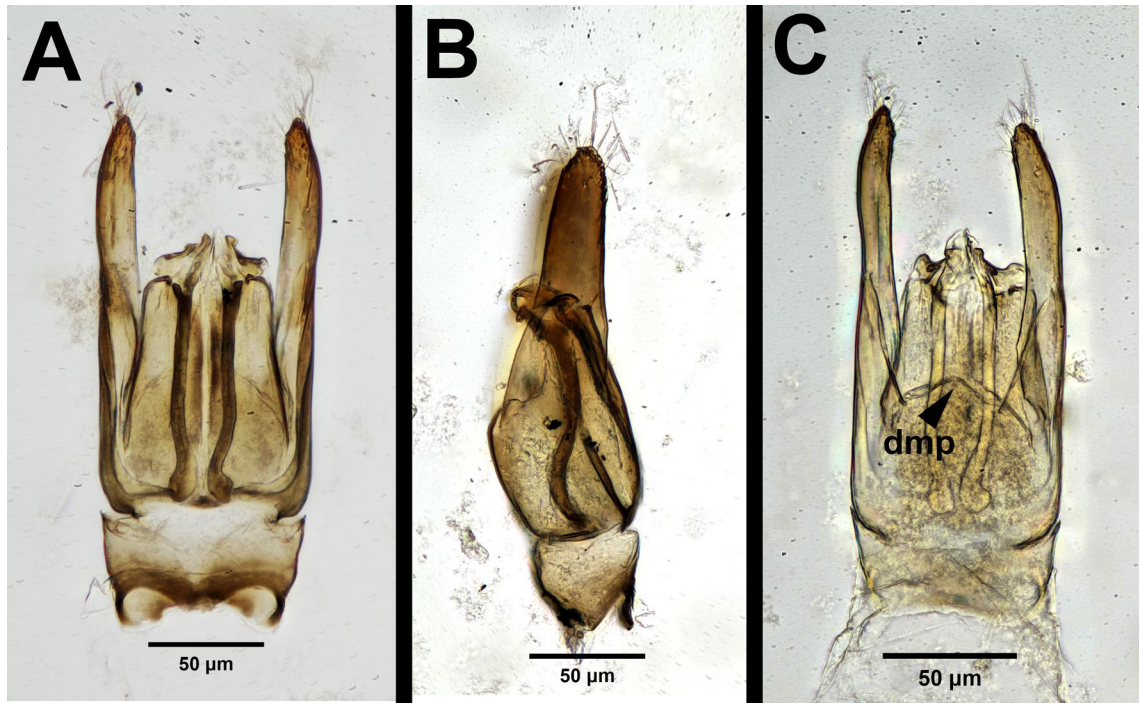


Figure 80. *Conostigmus rosemaryae* Trietsch sp. nov., male genitalia. A. Ventral view (CMNH 22798). B. Lateral view (PSUC_FEM 9042). C. Dorsal showing the dorsomedian projection of the gonostyle–volsella complex (CMNH 22771). Abbreviation: dorsomedian projection of the gonostyle–volsella complex (dmp).



Figure 81. *Conostigmus washburni* Trietsch sp. nov., male holotype (UCFC 207381).

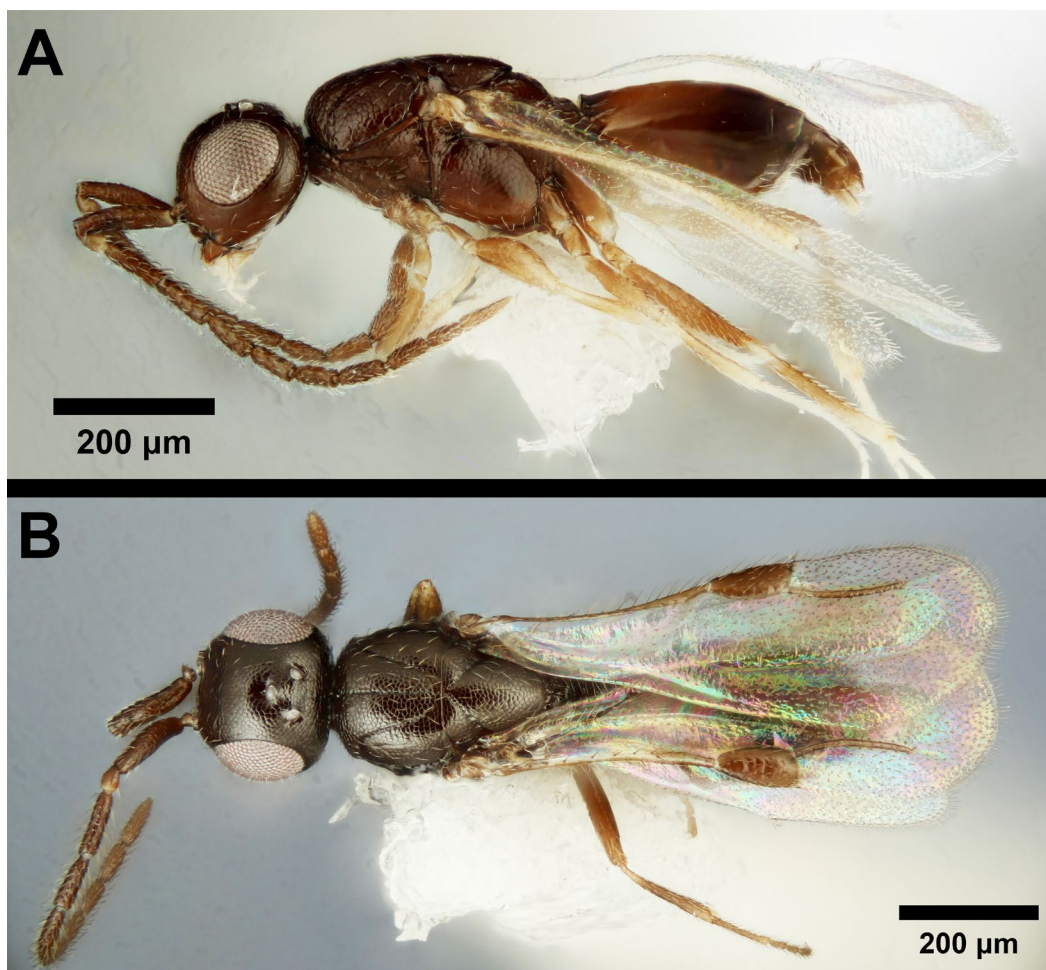


Figure 82. *Conostigmus washburni* Trietsch sp. nov., A. Lateral view (PSUC_FEM 34114). B. Dorsal view (PSUC_FEM 36073).

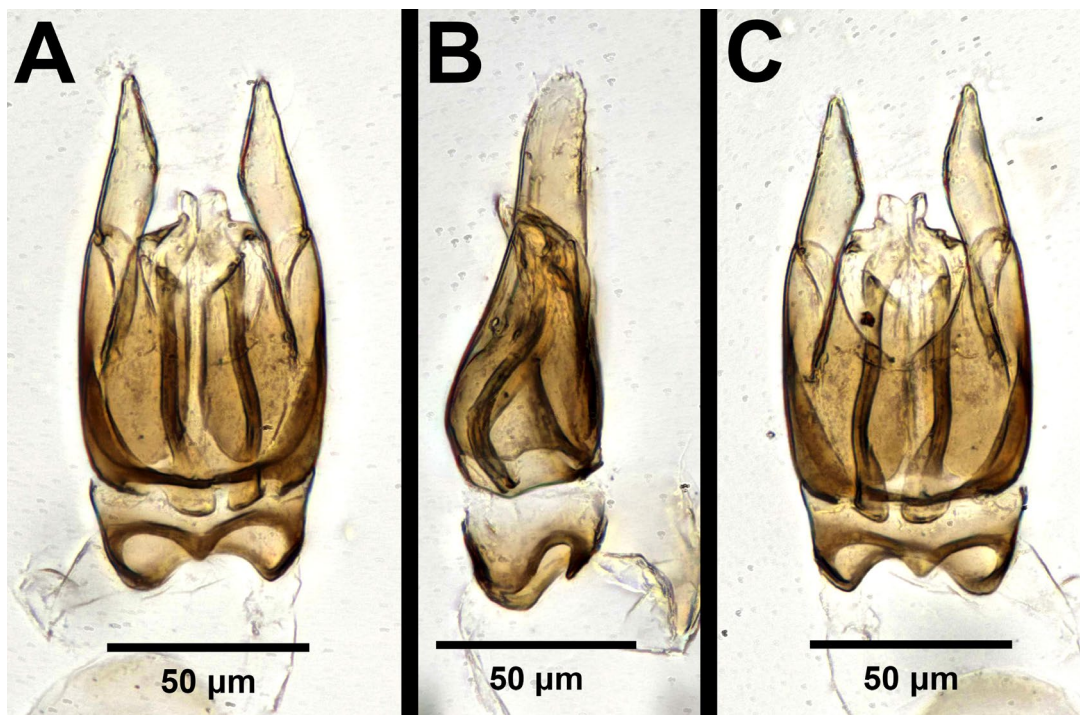


Figure 83. *Conostigmus washburni* Trietsch sp. nov., male genitalia. A. Ventral (PSUC_FEM 34135). B. Lateral (PSUC_FEM 34220). C. Dorsal (PSUC_FEM 34135).