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**Title:** Unravelling a hotchpotch : phylogeny and classification of the Microdontinae (Diptera: Syrphidae)

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Taxon	0	1	2	3	4	5	6	7	8
Afromicrodon johannae	0	0	0	1	1	0	0	0	0
Afromicrodon madecassa 1	0	0	0	1	1	0	0	0	0
Afromicrodon madecassa 2	0	0	0	1	1	0	0	0	0
Archimicrodon (Hovamicrodon) silvester	0	0	0	0	1	0	0	0	0
Archimicrodon (Hovamicrodon) spec.	0	0	0	0	1	0	0	0	0
Archimicrodon ampefyanus	0	0	0	0	1	0	0	0	0
Archimicrodon brevicornis	0	0	0	0	1	0	0	0	0
Archimicrodon browni	0	1	0	0	1	0	0	2	0
Archimicrodon cf. fergusonii	0	0	0	0	1	0	0	0	0
Archimicrodon clatratus	0	0	0	0	1	0	1	0	0
Archimicrodon malukensis	0	0	0	0	1	0	0	0	0
Archimicrodon obesus	0	0	0	0	1	0	0	0	0
Archimicrodon simplex	0	0	0	0	1	0	0	0	0
Archimicrodon simplicicornis	0	0	0	0	1	0	0	0	0
Archimicrodon venosus	0	0	0	0	1	0	0	0	0
Aristosyrphus (Eurypterosyrphus) macropter	3	1	0	0	1	0	1	2	0
Aristosyrphus (Eurypterosyrphus) spec. nov.	3	1	0	0	1	0	1	2	0
Aristosyrphus primus	0	1	0	1	1	0	0	2	0
Aristosyrphus samperi	0	0	0	1	1	1 ?		2	0
Bardistopus papuanum	0	1	0	0	1	0	1	2	0
Blera fallax	3	3	0	1	0	0	0	0	0
Carreramyia megacephalus	0	0	0	0	1	2	1	2	1
Carreramyia tigrina	0	0	0	0	1	2 ?		2 ?	
Ceratophya argentinensis	0	0	0	0	1	1	1	2	0
Ceratophya notata	0	0	0	0	1	1	1	2	0
Ceratrichomyia behara	0	0	0	0	1	2	1	2	0
Ceriomicrodon petiolatus	0	1	1	0	1	0	0	2	0
Cervicorniphora alcornis	0	0	0	0	1	2	1	2	1
Chalarus spuriae	0	3	0	2	1	0	1	0	0
Chrysidimya chrysidimima	0	0	0	0	1	0	0	2	0
Domodon zodiacus	0	0	0	0	1	0	0	2	0
Eristalis tenax	3	1	0	2	0	1	0	0	0
Furciantenna nepalensis	0	0	0	0	1	2	1	2	1
Heliodon chapini	0	0	0	0	1	0	0	1	0
Heliodon doris	0	0	0	0	1	0	0	1	0
Heliodon elisabethanna	0	0	0	0	1	1	0	1	0
Heliodon gloriosus	0	0	0	0	1	0	0	1	0
Heliodon tiber	0	0	0	0	1	0	0	1	0
Hypselosyrphus amazonicus	0	0	0	1	1	0	0	0	0
Hypselosyrphus maurus	0	2	0	1	1	0	0	0	0
Hypselosyrphus plaumanni	0	0	0	1	1	1	0	0	0
Hypselosyrphus ulopodus	0	0	0	1	1	0	0	0	0
Indascia cf. brachystoma	0	0	0	0	1	0	1	2	0
Indascia gigantea	0	0	0	0	1	0	1	2	0
Indascia gracilis	0	0	0	0	1	0	1	0	0
Indascia spathulata	0	0	0	0	1	0	1	2	0
Kryptopyga pendulosa	0	0	0	0	1	2	1	2	0
Laetodon geijskesi	0	0	0	0	1	0	0	2	0
Laetodon laetus	0	0	0	0	1	0	0	1	0
Masarygus hansonii	0	0	0	0	1	0	1	2	2
Masarygus palmipalpus	0	0	0	0	1	2	1	2	2
Masarygus planifrons	0	3	0	0	1	2	1	1	2
Masarygus xolotlus	0	3	0	0	1	0	1	1	2

Melanostoma scalare	3	1	0	2	0	0	0	0	0
Menidon falcatus 1	0	0	0	0	1	1	1	2	0
Menidon falcatus 2	0	0	0	0	1	1	1	2	0
Mermerizon inbio	0	0	0	0	1	0	1	1	0
Merodon equestris	1	1	0	2	0	0	0	0	0
Metadon achterbergi	0	0	0	0	1	1	0	2	0
Metadon auroscutatus	0	0	0	0	1	0	0	2	0
Metadon auroscutatus	0	0	0	0	1	0	0	2	0
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Metadon auroscutatus var. variventris	0	0	0	0	1	0	0	2	0
Metadon auroscutatus var. variventris	0	0	0	0	1	0	0	2	0
Metadon bicolor	0	0	0	0	1	0	0	2	0
Metadon bifasciatus	0	0	0	0	1	0	0	2	0
Metadon inermis	0	0	0	0	1	2	0	2	0
Metadon montis	0	0	0	0	1	0	0	2	0
Metadon punctulatus	0	0	0	0	1	2	0	1	0
Metadon robinsoni	0	0	0	0	1	0	0	2	0
Metadon rutilus	0	0	0	0	1	0	0	2	0
Metadon tuberculatus	0	0	0	0	1	1	0	2	0
Microdon (Chymophila) aff. aurifex	0	0	1	0	1	0	0	2	0
Microdon (Chymophila) stilboides	0	0	1	0	1	0	0	2	0
Microdon (Dimeraspis) abditus	0	0	0	0	1	1	0	1	0
Microdon (Dimeraspis) fuscipennis	0	0	0	0	1	2	0	2	0
Microdon (Dimeraspis) globosus	0	0	0	0	1	1	0	2	0
Microdon (Megodon) planitarsus	0	0	0	0	1	0	0	0	0
Microdon (Megodon) stuckenbergi	0	0	0	0	1	0	0	1	0
Microdon (Myiacerapis) villosus	0	0	0	0	1	2	1	2	0
Microdon (Serichlamys) rufipes	0	0	0	0	1	1	0	2	0
Microdon (Serichlamys) scutifer	0	0	0	0	1	1	0	2	0
Microdon (Syrphipogon) fucatisissimus	0	0	0	0	1	0	0	2	0
Microdon aeneus	0	0	0	0	1	0	0	2	0
Microdon amabilis	0	0	0	0	1	0	0	2	0
Microdon carbonarius	0	0	0	0	1	1	0	2	0
Microdon cf. sumatranus	0	0	0	0	1	0	0	2	0
Microdon cf. virgo	0	0	0	0	1	0	0	2	0
Microdon cothurnatus	0	0	0	0	1	2	0	2	0
Microdon craigheadii	0	0	0	0	1	0	0	2	0
Microdon devius	0	0	0	0	1	2	0	2	0
Microdon erythros	0	0	0	0	1	0	0	2	0
Microdon hauseri	0	0	0	0	1	1	0	2	0
Microdon japonicus	0	0	0	0	1	1	0	2	0
Microdon macquartii	0	0	1	0	1	1		2	0
Microdon macrocerus	0	0	0	0	1	2	0	2	0
Microdon major	0	0	0	0	1	2	0	2	0
Microdon mandarinus	0	0	0	0	1	2	0	2	0
Microdon mirabilis	0	0	0	1	1	2	0	2	0
Microdon mitis	0	0	0	0	1	0	0	1	0
Microdon murayamai	0	0	0	0	1	2	0	2	0
Microdon mutabilis	0	0	0	0	1	0	0	2	0
Microdon NA03_02	0	0	0	0	1	2	0	2	0
Microdon nigromarginalis	0	0	0	0	1	0	0	0	0
Microdon ocellaris	0	0	0	0	1	2	0	2	0
Microdon pictipennis	0	0	0	0	1	1	0	0	0
Microdon rieki	0	0	0	0	1	0	0	0	0
Microdon rufiventris	0	0	0	0	1	0	0	2	0
Microdon sharpii	0	1	0	0	1	0	0	2	0

Microdon tarsalis	0	0	0	0	1	2	0	1	0
Microdon trimacula	0	0	0	0	1	1	0	2	0
Microdon tristis	0	0	0	0	1	2	0	2	0
Microdon tsara	0	0	0	1	1	0	0	2	0
Microdon violaceus	0	0	0	0	1	0	0	0	0
Microdon waterhousei	0	0	0	0	1	1	0	2	0
Microdon yunnanensis	0	0	0	0	1	2	0	2	0
Mitidon cf. mus	0	0	0	0	1	0	0	1	0
Mitidon smaragdinus	0	0	0	0	1	0	0	2	0
Mixogaster breviventrus	0	1	0	0	1	1	1	2	0
Mixogaster spec. nov.	0	1	0	0	1 ?		0	2	0
Neoascia tenur	1	3	0	2	1	0	1	0	0
Nephrocerus lapponicus	0	3	0	2	0	0	0	0	0
Nephrocerus scutellatus	0	0	0	1	0	0	0	0	0
Oligeriops dimorphon	0	0	0	0	1	1	1	2	0
Omegasyrphus coarctatus	0	0	0	0	1	0	0	0	0
Omegasyrphus pallipennis	0	0	0	0	1	0	0	0	0
Paragodon paragoides	0	0	0	0	1	0	1	0	0
Paramicrodon aff. nigripennis 1	0	0	0	0	1	0	0	0	0
Paramicrodon aff. nigripennis 2	0	0	0	0	1	0	0	0	0
Paramicrodon cf. flukei	0	0	0	0	1	0	0	0	0
Paramicrodon delicatulus	0	0	0	0	1	0	1	0	0
Paramicrodon spec. Bolivia	0	0	0	0	1	0	0	0	0
Paramicrodon toxopei	0	0	0	0	1	0	0	0	0
Paramixogaster acantholepidis	0	0	0	0	1	2	1	2	0
Paramixogaster contractus	0	0	0	0	1	2	1	2	0
Paramixogaster crematogastris	?	?	?	?	?	?	?	?	?
Paramixogaster elisabethae	0	0	0	0	1	1	1	2	0
Paramixogaster illucens	0	0	0	0	1	1	1	2	0
Paramixogaster luxor	0	0	0	0	1	0	1	2	0
Paramixogaster omeanus	0	0	0	0	1	2	1	2	0
Paramixogaster spec. Austr.	0	0	0	0	1	2 ?		2	0
Paramixogaster variegatus	0	0	0	0	1	2	1	2	0
Paramixogaster vespiformis	0	1	0	0	1	0	1	2	0
Parocryptamus sonamii	0	0	0	0	1	0	0	2	0
Parocryptamus spec.	0	0	0	0	1	0	0	2	0
Peradon bidens	0	0	1	1	1	1	0	2	0
Peradon chrysopygus	0	0	1	0	1	2	0	2	0
Peradon flavofascium	0	0	1	1	1	2	0	2	0
Peradon luridescens	0	0	1	1	1	1	0	2	0
Peradon trivittatum	0	0	1	1	1	2	0	2	0
Pipiza noctiluca	0	0	0	2	0	0	0	0	0
Piruwa phaecada	0	0	0	1	1	0	1	0	0
Pseudomicrodon batesi	0	0	0	0	1	0	0	2	0
Pseudomicrodon biluminiferus	0	0	0	1	1	0	0	2	0
Pseudomicrodon polistoides	0	0	0	0	1	0	0	2	0
Pseudomicrodon smiti	0	0	1	0	1	0	0	2	0
Ptilobactrum neavei	0	0	0	0	1	2	1	2	0
Rhoga CR1	0	2	0	1	1	0	0	1	0
Rhoga CR2	0	2	0	1	1	0	0	1	0
Rhoga mellea	0	1	0	1	1	0	1	0	0
Rhoga sepulchrasilva	0	1	0	1	1	0	1	0	0
Rhopalosyrphus abnormoides	0	0	0	0	1	0	0	2	0
Rhopalosyrphus ecuadoriensis	0	0	0	0	1	0	0	2	0
Rhopalosyrphus oreokawensis	0	0	0	1	1	1	0	0	0
Rhopalosyrphus ramulorum	0	1	0	0	1	1	0	2	0

Rhopalosyrphus robustus	0	0	0	0	1	0 ?		2	0
Schizoceratomyia barretoii	0	0	0	1	1	0	1	2	1
Schizoceratomyia flavipes 1	0	2	0	0	1	2	1	2	1
Schizoceratomyia flavipes 2	0	2	0	0	1	2	1	2	1
Schizoceratomyia malleri	0	2	0	0	1	2	1	2	1
Spheginobaccha aethusa	3	1	0	2	1	0	0	0	0
Spheginobaccha dexioides	3	1	0	2	1	0	0	0	0
Spheginobaccha guttula	0	1	0	1	1	0	1	0	0
Spheginobaccha macropoda	1	0	0	1	1	0	0	0	0
Spheginobaccha melancholica	3	1	0	2	1	0	0	0	0
Spheginobaccha vandoesburgi	3	1	0	2	1	0	0	0	0
Stipomorpha guianica	0	0	0	0	1	0	0	2	0
Stipomorpha inarmata	0	1	0	0	1	0	0	1	0
Stipomorpha lacteipennis	0	0	0	1	1	0	0	0	0
Stipomorpha lanei	0	1	0	0	1	0	0	0	0
Stipomorpha mackiei	0	0	0	0	1	1	0	1	0
Stipomorpha tenuicauda	0	2	0	0	1	1	0	1	0
Sulcodon sulcatus	0	0	0	0	1	0	0	2	0
Surimya rolanderi	0	0	0	0	1	0	1	0	0
Syrphus vitripennis	3	1	0	0	0	2	0	0	0
Ubristes flavitibia	0	0	0	1	1	2	0	2	0
Undescribed genus #1, species AUS-01	0	0	0	0	1	1	1	2	0
Undescribed genus #2, species MCR-02	0	1	0	0	1	1	1	2	1
Xylota segnis	1	0	0	2	0	0	0	0	0



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