

Staphylinidae of México: checklist updates and papers published between 2002-2013

José Luis Navarrete-Heredia^{1*} & Alfred F. Newton²

¹Entomología, CUCBA, Universidad de Guadalajara, Apartado Postal 134, Zapopan, Jalisco, México

²Zoology Department, Field Museum of Natural History, 1400 S Lake Shore Drive, Chicago, IL 60605, USA

RESUMEN

Se presenta una adición a la lista de especies de Staphylinidae de México, descritas recientemente (2002-2013) u omitidas en la *Guía ilustrada para los géneros de Staphylinidae (Coleoptera)*. Adicionalmente se presentan las referencias de trabajos publicados en este periodo. Actualmente se conocen para México 1,678 especies. Entre 2002-2013 se publicaron 117 trabajos con información sobre Staphylinidae de México.

Palabras clave: Lista de especies, Staphylinidae, México.

ABSTRACT

We provide an additional checklist of Mexican staphylinids for species described recently (2002-2013) or overlooked in the *Guide to genera of Staphylinidae (Coleoptera) of México*. References to papers published during this period are also provided. Currently 1,678 species are recorded from México. Between 2002-2013, 117 papers with information on Mexican staphylinids were published.

Key words: Checklist, Staphylinidae, México.

INTRODUCTION

In a paper published recently by the authors (Navarrete-Heredia & Newton 2013), in a special issue of the *Revista Mexicana de Biodiversidad* devoted to Mexican diversity, we provide an overview of the knowledge of these beetles after the publication of the book *Guía ilustrada para los géneros de Staphylinidae (Coleoptera) de México* (Navarrete-Heredia *et al.* 2002). However, due to space limitations specific details were excluded from that contribution, especially an update to the checklist of Mexican staphylinids and a compilation of papers published between 2002-2013 with data for these beetles in México. In this paper, we provide this information, considered by us as an important update to the Mexican Staphylinidae diversity.

RESULTS

Navarrete-Heredia & Newton (2013) recorded 1,656 staphylinid species from México. After the paper submission until now, 21 species were described: Aleocharinae (1 species), Megalopsidiinae (10), Osoriinae (2) Paederinae (7), Staphylininae (1) and, one as a new record from México (Tachyporinae). So, the current number of Mexican staphylinids (June 2013) is 1,678.

Between 2002-2013, 117 papers were published with information on Mexican staphylinids (Appendix 1), most of them with taxonomic information (description of new species, new records, inventories or revisions): a few provide information on natural history or ecology.

Checklist of Mexican Staphylinids

Staphylinidae species described or recorded from México after (or previous to but not included in) the *Guía ilustrada para los géneros de Staphylinidae (Coleoptera) de México* (Navarrete-Heredia *et al.* 2002). Specific distributional records came from the original papers, cited in Appendix 1 for those

published between 2002-2013. References to descriptions of scientific names are cited as Author-year with a comma, whereas references are cited as Author-year without a comma. Earlier works are cited in Navarrete-Heredia *et al.* (2002), with the exception of the original descriptions of some older names of species that are newly added to the Mexican fauna below; these older works are also cited in Appendix 1.

Aleocharinae

Aleocharini

Tinotus refusus Hanley, 2002

SLP

Athetini

Charoxus major Kistner, 1981

VER

Seeversiella castanea Gusarov, 2003b

CHIS

Seeversiella fusca Gusarov, 2003b

GRO, OAX

Seeversiella globicollis (Bernhauer, 1907)

CHIS, GRO, MICH, NL, OAX, PUE, VER

Seeversiella mexicana Gusarov, 2003b

GRO, OAX

Seeversiella nigriceps Gusarov, 2003b

PUE

Seeversiella tuberculicauda Gusarov, 2003b

VER

Athetina

Adota colpophila Gusarov, 2003a

SON

Atheta lucana (Casey, 1910)

BCS

Falagriini

- Borboropora mixe* Delgado & Santiago-Jiménez, 2009
OAX
Borboropora pseudoquadriceps Delgado & Santiago-Jiménez, 2009
VER
Lissagria foveolata Eldredge, 2012
JAL

Homalotini
Bolitocharina

- Heterota plumbea* (Waterhouse, 1858)
QROO (Frank & Thomas 1984)

Gyrophaenina

- Eumicrota flohori* (Pace, 2002)
MEXICO

Hypocyphtini

- Holobus oviformis* (Casey, 1894)
MEX

Lomechusini
Myrmedoniina

- Ecitodonia major* (Wasmann, 1900)
SLP
Ecitodonia setigera Seevers, 1965
SLP
Ecitoglossa jacobsoni Mooney & Kistner, 2005
CHIS
Ecitopora fernandi Reichensperger, 1935
OAX, SLP, VER
Ecitopora rettenmeyeri Kistner, 2011
OAX

Tachyusini

- Tachyusa faceta* Casey, 1885
CHIH

Euaesthetinae
Euaesthetini

- Edaphus axayacatl* Puthz, 2002
HGO
Edaphus izcoatl Puthz, 2002
SLP
Euaesthetus navarretei Puthz, 2002
JAL

Megalopsidiinae

- Megalopinus baranowskii* Puthz, 2012
CHIS
Megalopinus callipennis Puthz, 2012
CHIS
Megalopinus crenulifrons Puthz, 2012
CHIS
Megalopinus libidinosus Puthz, 1994
COL (Puthz 2012)

- Megalopinus obscurus* (Sharp, 1887)
MEXICO (Puthz 2012)
Megalopinus panamensis (Sharp, 1887)
CHIS (Puthz 2012)
Megalopinus quadriguttatus Puthz, 2012
CHIS
Megalopinus rufipes (LeConte, 1863)
SIN (Puthz 2012)
Megalopinus thayerinae Puthz, 2012
JAL
Megalopinus tuberiventris Puthz, 2012
TAMPS, VER

Osoriinae
Osoriini

- Craspedus pecki* Irmeler, 2009b
VER
Holotrochus diversipennis Irmeler, 2007
CHIS
Holotrochus tuxtlae Irmeler, 2010
CHIS
Holotrochus uncinatus Irmeler, 2005a
OAX
Osorius brasiliensis Guérin-Meneville, 1829
VER

Thoracophorini
Glyptomina

- Espeson franiae* Irmeler, 2012
CHIS
Espeson pecki Irmeler, 2012
NAY, NL, TAMPS, VER
Espeson titschacki Bernhauer, 1941
NAY (Irmeler 2012)
Lispinina
Lispinus catena Sharp, 1876
MEXICO (Irmeler 2009a)
Lispinus laticollis Erichson, 1840
VER (Mexico (VER) in FMNH (det. Irmeler))
Lispinus sinuatocollis Bernhauer, 1942
CHIS, GRO, HGO, OAX, QRO, VER (Irmeler 2006a, 2009a)
Nacaeus flavipennis (Fauvel, 1864)
TAB, VER
Nacaeus honduranus Irmeler, 2006b
SLP, YUC
Nacaeus planellus (Sharp, 1887)
CHIS (Irmeler 2003)
Nacaeus sculpuratus (Sharp, 1887)
CHIS, OAX, TAB, VER, SLP, HGO? (Irmeler 2003)
Tannea brightii Irmeler, 2005b
CHIS, OAX, VER
Tannea meridionalis Irmeler, 2003
VER
Tannea mexicana Irmeler, 2005b
CHIS, OAX, VER

Thoracophorina

Thoracophorus rugosus Irmeler, 2001
VER

Oxyporinae

Oxyporus bautistae Márquez & Asiain, 2006
OAX
Oxyporus delgadoi Márquez, Asiain & Fierros-López, 2005
HGO

Oxytelinae**Oxytelini**

Sciotrogus opacus Sharp, 1887
SON, TAMPS

Paederinae**Paederini****Lathrobiina**

Dacnochilus compactus Casey, 1905
BCN (Jiménez-Sánchez & Galián 2013), cited as *D. compacta*.
Dacnochilus huautlae Jiménez-Sánchez & Galián, 2013
GRO, MOR
Dacnochilus nahuiollinae Jiménez-Sánchez & Galián, 2013
GRO, OAX
Dacnochilus newtoni Jiménez-Sánchez & Galián, 2013
SLP
Dacnochilus zaragozae Jiménez-Sánchez & Galián, 2013
MOR

Paederina

Paederus salvini Sharp, 1876
MEXICO (Scheerpeltz 1965)

Procirrina

Oedichirus isthmus Herman, 2013
JAL
Oedichirus sinuosus Herman, 2013
YUC
Palaminus apicipennis Sharp, 1886
MEXICO (Herman 2010)
Palaminus debilis Sharp, 1886
MEXICO (Herman 2010)
Palaminus filum Sharp, 1886
MEXICO (Herman 2010)
Palaminus gracilipes Sharp, 1886
MEXICO (Herman 2010)

Piestinae

Piestus abdominalis Caron, Riberio-Costa & Newton, 2012
CHIS

Pselaphinae**Trichonychini****Trichonychina**

Oropodes tipai Chandler & Caterino, 2011
BCN

Pseudopsinae

Pseudopsis baranowskii Zerche, 2003
OAX

Scaphidiinae**Cypariini**

Cyparium navarretei Fierros-López, 2002
VER
Cyparium yapalli Fierros-López, 2002
GRO, OAX

Scaphidiini

Scaphidium baezi Fierros-López, 2005
JAL, NAY
Scaphidium flohri Fierros-López, 2005
HGO, QRO, VER
Scaphidium loebli Fierros-López, 2005
MEX, MOR
Scaphidium newtoni Fierros-López, 2005
VER
Scaphidium ocelotl Fierros-López, 2005
VER
Scaphidium tecuani Fierros-López, 2005
CHIS, VER
Scaphidium thayerae Fierros-López, 2005
OAX, VER
Scaphidium theni Fierros-López, 2005
VER
Scaphidium tlatlahqui Fierros-López, 2005
JAL, OAX
Scaphidium tilmetzli Fierros-López, 2005
CHIS
Scaphidium tzinti Fierros-López, 2005
HGO, VER
Scaphidium uinduri Fierros-López, 2005
JAL, OAX
Scaphidium xolotl Fierros-López, 2005
HGO
Scaphidium yayactic Fierros-López, 2005
DGO
Scaphidium yeilineatum Fierros-López, 2005
JAL

Scaphisomatini

Baeocera gutierrezberaudi Fierros-López, 2010
JAL
Baeocera pulchella Fierros-López, 2010
JAL
Scaphisoma cortesaguilari Fierros-López, 2006
JAL
Scaphisoma jaliscanum Fierros-López, 2006
JAL, OAX
Scaphisoma opochtli Fierros-López, 2006
JAL, MOR
Scaphisoma versicolor Fierros-López, 2006
JAL, OAX

Scydmaeninae

Mastigitae

Clidicini

- Leptochromus bicolor* O'Keefe, 2002
VER
Leptochromus mexicanus (Sharp, 1887)
VER
†*Leptochromus palaeomexicanus* O'Keefe, 2002
CHIS
Papusus andrewsi O'Keefe, 2003
BCN
Papusus esparanza O'Keefe, 2003
BCS
Papusus loebli O'Keefe, 2003
BCS
Papusus naranjus O'Keefe, 2003
BCS
Papusus werneri O'Keefe, 2003
SON

Scydmaenitae

Cephenniini

- Cephazteca chiapasana* Jałoszyński, 2011a
CHIS
Cephazteca xilitla Jałoszyński, 2011a
SLP
Furcodes apicalis Jałoszyński, 2012
CHIS

Chevrolatini

- Chevrolatia grouvellei* Croissandeau, 1890
MEXICO

Cyrtoscydmini

- Alloraphes chiapasensis* Franz, 1994
CHIS
Alloraphes yucatani Franz, 1994
YUC
Euconnus (Pycnophus) aguaceroi Franz, 1994
CHIS
Euconnus alcanfonae Franz, 1994
CHIS
Euconnus alcanfonensis Franz, 1994
CHIS
Euconnus allotuxtlanus Franz, 1994
CHIS
Euconnus amatlanensis Franz, 1994
MOR
Euconnus bartoloanus Franz, 1994
BCS
Euconnus bifoveolatus (Schaufuss, 1866)
TAB
Euconnus bolonchenensis Franz, 1994
CAMP
Euconnus buenfilanus Franz, 1994
CAMP

- Euconnus buenfilensis* Franz, 1994
CAMP
Euconnus campanaeformis Franz, 1994
MEXICO
Euconnus chevrolatii (Schaufuss, 1866)
YUC
Euconnus chiapasicola Franz, 1994
CHIS
Euconnus clavatriarticulata Franz, 1994
MEXICO
Euconnus cristobalensis Franz, 1994
CHIS
Euconnus dupliciseta Franz, 1994
MEXICO
Euconnus (Pycnophus) dzibilchaltunensis Franz, 1994
CHIS, YUC
Euconnus edznanus Franz, 1994
CAMP
Euconnus galericulatus (Schaufuss, 1866)
TAB
Euconnus hirsutus (Schaufuss, 1866)
TAB, VER
Euconnus idoneiformis Franz, 1994
MOR
Euconnus indio Franz, 1994
MEXICO
Euconnus indiorum Franz, 1994
CHIS
Euconnus ineditus Franz, 1994
MEXICO
Euconnus ixtacombae Franz, 1994
CHIS
Euconnus latelinguatus Franz, 1994
MEXICO
Euconnus linguatus Franz, 1994
MEXICO
Euconnus mayanus Franz, 1994
YUC
Euconnus mexicanorum Franz, 1994
MEXICO
Euconnus mexicanus Franz, 1994
MEXICO
Euconnus naniformis Franz, 1994
MEXICO
Euconnus oaxacanus Franz, 1990
OAX
Euconnus oxlotanensis Franz, 1994
CHIS
Euconnus oxlotanus Franz, 1994
CHIS
Euconnus (Pycnophus) paraaguaceroi Franz, 1994
MEXICO
Euconnus parachiapasicola Franz, 1994
MEXICO
Euconnus paraidoneiformis Franz, 1994
MOR

<i>Euconnus paratridentipenis</i> Franz, 1994	<i>Euconnus virilis</i> Franz, 1994
MEXICO	MEXICO
<i>Euconnus paratuxtlae</i> Franz, 1994	<i>Euconnus yucatanii</i> Franz, 1994
BCS	YUC
<i>Euconnus (Pycnophus) penicillifer</i> Franz, 1994	<i>Euconnus zerchei</i> Franz, 1994
MEXICO	MEXICO
<i>Euconnus perotensis</i> Franz, 1994	<i>Homoconnus chiapasensis</i> Franz, 1994
VER	CHIS
<i>Euconnus plicatulus</i> (Schaufuss, 1866)	<i>Homoconnus spinipes</i> (Schaufuss, 1866)
TAB	TAB
<i>Euconnus pseudocampanaeformis</i> Franz, 1994	<i>Madagassoconnus arganoi</i> (Franz, 1977)
MEXICO	CHIS
<i>Euconnus pseudopycnophus</i> Franz, 1994	<i>Mexiconnus mexicanus</i> (Franz, 1994)
MEXICO	CHIS
<i>Euconnus querceti</i> Franz, 1994	
CHIS	
<i>Euconnus sagittifer</i> Franz, 1994	
MEXICO	
<i>Euconnus (Pycnophus) santiagoensis</i> Franz, 1994	
BCS	
<i>Euconnus schaufussensis</i> Franz, 1994	
MEXICO	
<i>Euconnus sexhamatus</i> Franz, 1994	
MEXICO	
<i>Euconnus sierraecostalis</i> Franz, 1994	
OAX	
<i>Euconnus sierraepacifica</i> Franz, 1994	
OAX	
<i>Euconnus silvaemontanae</i> Franz, 1994	
CHIS	
<i>Euconnus simplicitus</i> (Schaufuss, 1866)	
TAB	
<i>Euconnus submontanus</i> Franz, 1994	
CHIS	
<i>Euconnus suburbanus</i> Franz, 1994	
OAX	
<i>Euconnus teapae</i> Franz, 1994	
TAB	
<i>Euconnus teapanus</i> Franz, 1994	
TAB	
<i>Euconnus teportlanus</i> Franz, 1994	
MOR	
<i>Euconnus terminatus</i> (Schaufuss, 1866)	
TAB	
<i>Euconnus tetrameliformis</i> Franz, 1994	
MEXICO	
<i>Euconnus (Pycnophus) trigeminus</i> (Schaufuss, 1866)	
TAB	
<i>Euconnus tuxtlae</i> Franz, 1994	
CHIS	
<i>Euconnus tuxtlanus</i> Franz, 1994	
CHIS	
<i>Euconnus valdeincurvatus</i> Franz, 1994	
MEXICO	
<i>Euconnus valdetransparens</i> Franz, 1994	
CHIS	
	Eutheini
	<i>Eutheia mesoamericana</i> Jałoszyński, 2011b
	GRO
	<i>Eutheia mexicana</i> Franz, 1977
	CHIS
	Scydmaenini
	<i>Scydmaenus bisphaericus</i> (Schaufuss, 1866)
	TAB
	<i>Scydmaenus brunneus</i> Schaum, 1841
	GRO, MEX, MOR, OAX, TAB
	<i>Scydmaenus centralis</i> (Sharp, 1887)
	VER
	<i>Scydmaenus commilitonis</i> (Schaufuss, 1866)
	TAB, VER
	<i>Scydmaenus decuiiformis</i> Franz, 1994
	MEXICO
	<i>Scydmaenus ecuatoreanus</i> Franz, 1980
	OAX
	<i>Scydmaenus heissi</i> Franz, 1980
	YUC
	<i>Scydmaenus lucanus</i> (Horn, 1895)
	BCS
	<i>Scydmaenus martinezi</i> Franz, 1967
	VER
	<i>Scydmaenus mexicanus</i> (Schaufuss, 1866)
	TAB
	<i>Scydmaenus pectoralis</i> (Sharp, 1887)
	VER
	<i>Scydmaenus pseudoteapanus</i> Franz, 1994
	CHIS
	<i>Scydmaenus sallaei</i> (Sharp, 1887)
	VER
	<i>Scydmaenus soledadensis</i> Franz, 1994
	VER
	<i>Scydmaenus speculator</i> (Schaufuss, 1866)
	TAB
	<i>Scydmaenus vestalis</i> (Casey, 1884)
	SIN, SON

Staphylininae
Staphylinini
Anisolinina

- Misantlius brevipennis* Asiain & Márquez, 2003
 OAX
Misantlius rufiventris Asiain & Márquez, 2003
 GRO
Misantlius torquatus Sharp, 1885
 CHIS

Philonthina

- Chroaptomus centralis* Chani-Posse, 2006
 CHIS, HGO
Chroaptomus mexicanus Chani-Posse & Navarrete-Heredia, 2006
 CHIS, COL, DGO, GRO, JAL, MEX, MOR, OAX, VER
Philonthus pollens Márquez & Asiain, 2010
 MOR
Philonthus rufotibialis Márquez & Asiain, 2010
 CHIS
Philonthus yaqui Navarrete-Heredia, 2003
 SON

Staphylinina

- Dinothenarus amisadaiae* Santiago-Jiménez, 2008
 VER

Xanthopygina

- Nordus praedator* Navarrete-Heredia, Fierros-López, & Chatzimanolis, 2006
 JAL
Phanolinus elisae Navarrete-Heredia, 2005a
 JAL
Xanthopygus mirabilis (Erichson, 1840)
 MOR, VER
Zackfalinus lamperos Chatzimanolis, 2012
 CAMP, CHIS, VER

Xantholinini

- Homalolinus asiainae* Márquez, 2003b
 JAL, MEX, MOR, VER
Homalolinus confusus Márquez, 2003b
 CHIS
Homalolinus grandis Márquez, 2003b
 GRO
Homalolinus guerreroensis Márquez, 2003b
 GRO
Homalolinus mexicanus Márquez, 2003b
 CHIS, HGO, OAX, VER, PUE?
Homalolinus neovulcanicus Márquez, 2003b
 DGO, GRO, GTO, JAL, MEX, MOR
Homalolinus obsoletus Márquez, 2003b
 CHIS
Homalolinus rufus Márquez, 2003b
 OAX, VER
Homalolinus scutellaris Márquez, 2003b
 CHIS

- Homalolinus tlanchinolensis* Márquez, 2003b
 HGO, VER
Plochionocerus discedens (Sharp, 1885)
 MEXICO
Renda julietae Márquez, 2010b
 VER
Renda raulmunizi Márquez, 2010b
 CHIS
Xantholinus castigatus Erichson, 1839
 MEXICO

- Steninae
Stenus (Hypostenus) ahuitzotl Puthz, 2006a
 GRO
Stenus (Hypostenus) ambulabilis Puthz, 2006a
 CHIS
Stenus (Hypostenus) ambulatrix Puthz, 2006a
 VER
Stenus (Tesusus) argentulus Puthz, 2006b
 BCN
Stenus (Tesusus) auricomans Puthz, 2006b
 DGO, HGO, SIN
Stenus (Tesusus) aurifer Puthz, 2006b
 MEX
Stenus (Tesusus) auriferoides Puthz, 2006b
 OAX
Stenus (Tesusus) aurigans Puthz, 2006b
 NL
Stenus (Tesusus) aurilegulus Puthz, 2006b
 MEXICO
Stenus (Hypostenus) chimalpopoca Puthz, 2006a
 OAX
Stenus (Hypostenus) cuauhtemoc Puthz, 2006a
 CHIS, VER
Stenus (Hypostenus) fulgescens Puthz, 2006a
 CHIS
Stenus (Tesusus) naso Puthz, 2006b
 CHIS, NAY, OAX
Stenus (Tesusus) zapotec Puthz, 2006b
 CHIS

Nomen nudum

Staphylininae
 Staphylinini
 Philonthina

- Philonthus navarretei* Márquez & Asiain, 2010, *nomen nudum* (holotype depository not provided).
 OAX

Other changes after the *Guía*

Aleocharinae
Aleocharini
Aleocharina

- Aleochara bonariensis* Lynch, 1884
 Synonym of *A. lateralis* (Blackwelder 1944; Navarrete-Heredia *et al.* 2002). Recently as valid species (Caron *et al.*, 2008)

Aleochara newtoni Caron, Mise & Klimaszewski, 2008
Cited as *Aleochara duplicata* in Navarrete-Heredia *et al.* (2002). Name previously used, replaced by *A. newtoni*.

Athetini

Leptonia hospes Mann, 1925

Cited as *Atheta (Leptonia) hospes* in Navarrete-Heredia *et al.* (2002). *Leptonia* as valid genus (Pace 2008).

Leptonia lunata (Erichson, 1839)

Cited as *Atheta (Leptonia) lunata* in Navarrete-Heredia *et al.* (2002). *Leptonia* as valid genus (Pace 2008).

Athetina

Aloconota flexibilis Casey, 1911

Cited as *Atheta (Aloconota) flexibilis* in Navarrete-Heredia *et al.* (2002). *Aloconota* as valid genus by Smetana (2004).

Aloconota tenuicauda (Bernhauer 1929)

Cited as *Atheta (Aloconota) tenuicauda* in Navarrete-Heredia *et al.* (2002). *Aloconota* as valid genus by Smetana (2004).

Hydrosmecta depressa Casey, 1911

Cited as *Atheta (Hydrosmecta) depressa* in Navarrete-Heredia *et al.* (2002). *Hydrosmecta* as valid genus by Smetana (2004).

Hydrosmecta stephensi (Blackwelder 1944)

Cited as *Atheta (Hydrosmecta) stephensi* in Navarrete-Heredia *et al.* (2002). *Hydrosmecta* as valid genus by Smetana (2004).

Cordobanini

Cordobanus mirabilis Bernhauer, 1910

Included in Tachyporinae, tribe Cordobanini, but suggested to remove to Aleocharinae (Navarrete-Heredia *et al.* 2002). Type examination by Dr. L. H. Herman from the American Museum of Natural History confirmed the inclusion in Aleocharinae (Herman pers. comm. 2005).

Falagriini

Leptagria infima (Sharp 1883)

Cited as *Falagria infima* in Navarrete-Heredia *et al.* (2002). Transferred to *Leptagria* (Frank, 1998).

Lomechusini

Myrmedoniina

Myrmoecia tapinomatis (Mann, 1914)

Cited as *Zyras tapinomatis* in Navarrete-Heredia *et al.* (2002). Transferred to *Myrmoecia* (Hlaváč *et al.* 2011).

Orphnebius marginalis (Reichensperger, 1935)

Cited as *Tetradonia marginalis* in Navarrete-Heredia *et al.* (2002). Transferred to *Orphnebius* (Hlaváč *et al.* 2011).

Pella fauveli (Sharp, 1883)

Cited as *Zyras fauveli* in Navarrete-Heredia *et al.* (2002). Transferred to *Pella*, (Hlaváč *et al.* 2011).

Pseudofalagonia crassiventris (Sharp, 1883)

Cited as *Falagonia crassiventris* in Navarrete-Heredia *et al.* (2002). New combination, redescription and distribution in Santiago-Jiménez (2010).

Oxypodini

Oxypodina

Tectusa mexicana (Bernhauer, 1929)

Cited as *Parocyusa fauveli* in Navarrete-Heredia *et al.* (2002). *Parocyusa* as synonym of *Tectusa* (Assing & Schülke 2007).

Tachyusini

Ischnopoda seticornis (Sharp, 1883)

Cited as *Tachyusa seticornis* in Navarrete-Heredia *et al.* (2002). New combination in Pašnik (2006).

Ischnopoda sparsa (Sharp, 1883)

Cited as *Tachyusa sparsa* in Navarrete-Heredia *et al.* (2002). New combination in Pašnik (2006).

Teliusa mexicana (Bernhauer, 1929)

Cited as *Tachyusa seticornis* in Navarrete-Heredia *et al.* (2002). New combination in Pašnik (2006).

Megalopsidiinae

Megalopinus pulcherrimus (Bernhauer, 1910)

Megalopinus pulchrior Puthz, 1989

Synonym of *M. pulcherrimus* (Bernhauer) in Puthz (2012)

Megalopinus spinosus (Sharp, 1876)

Cited as *Megalopinus impressus* (Sharp) in Navarrete-Heredia *et al.* (2002). *M. impressus* as new synonym of *M. spinosus* in Puthz (2012).

Micropeplinae

Arrhenoepelus tesserula Curtis, 1828

Cited as *Micropeplus tesserula* in Navarrete-Heredia *et al.* (2002). *Arrhenoepelus* as genus, not a subgenus of *Micropeplus* (Smetana, 2004).

Osoriinae

Thoracophorini

Lispina

Nacaeus impressicollis (Motschulsky, 1858)

Cited as *Nacaeus irregularis* (Blackwelder) in Navarrete-Heredia *et al.* (2002). *N. irregularis* as new synonym of *N. impressicollis* (Irmeler 2003).

Nacaeus nigrifrons (Fauvel, 1863)

Questionable record (Irmeler 2003).

Nacaeus paratenuis Irmeler, 2003

Cited as “en prensa” in Navarrete-Heredia *et al.* (2002).

Tannea picata Irmeler, 2003

Cited as “en prensa” in Navarrete-Heredia *et al.* (2002).

Tannea salasi Irmeler, 2003

Cited as “en prensa” in Navarrete-Heredia *et al.* (2002).

Paederinae

Paederini

Cryptobiina

Homaeotarsus torquatus Herman, 2003

Cited as *Homaeotarsus collaris* in Navarrete-Heredia *et al.* (2002). Name preoccupied, new name as *H. torquatus* (Herman, 2003).

Lathrobiina

Dacnochilus angularis (Erichson, 1840)

Cited as *Acalophaena angularis* in Navarrete-Heredia *et al.* (2002). New combination in Jiménez-Sánchez & Galián (2013).

Dacnochilus horridulus (Casey, 1905)

Cited as *Acalophaena horridula* in Navarrete-Heredia *et al.* (2002). New combination in Jiménez-Sánchez & Galián (2013).

Pseudolathra dimidiatum (Say, 1830)

Cited as *Lathrobium (Pseudolathra) dimidiatum* in Navarrete-Heredia *et al.* (2002). *Pseudolathra* as genus by Smetana (2004).

Pseudolathra lituarium (LeConte, 1880)

Cited as *Lathrobium (Pseudolathra) lituarium* in Navarrete-Heredia *et al.* (2002). *Pseudolathra* as genus by Smetana (2004).

Medonina

Pseudomedon obsoletus (Nordmann, 1837)

Cited as *Lithocharis obsoleta* in Navarrete-Heredia *et al.* (2002), but Assing (2011) transferred it to *Pseudomedon*.

Piestinae

Piestus buquetii Fauvel, 1864

Questionable record from México, redescription and distribution in Caron *et al.* (2012).

Scaphidiinae
Scaphidiini

Scaphidium variabile Matthews, 1888

Erroneous record, distribution only in Costa Rica and Panamá (Fierros-López, 2005).

Staphylininae
Staphylinini
Anisolinina

Misantlius optatus Sharp, 1885

Misantlius jalapae Bernhauer, 1910

Synonym of *M. optatus* Sharp, 1885 in Asiain & Márquez (2003)

Xantholinini

Phacophallus pallidipennis Motschulsky, 1858

Cited as *Phacophallus tricolor* (Kraatz, 1859) in Navarrete-Heredia *et al.* (2002). *P. tricolor* as synonym of *P. pallidipennis* (Bordoni, 2002).

Plochionocerus fulgens (Fabricius, 1793)

Not in México (Asiain *et al.* 2007).

Plochionocerus simplicicollis (Waterhouse, 1879)

Cited as *Plochionocerus basalis* (Sharp, 1885), *P. mandibularis* (Sharp, 1885) and, *P. nordmanni* (Fauvel, 1901) in Navarrete-Heredia *et al.* (2002), all synonyms of *P. simplicicollis* (Asiain *et al.* 2007)

Thyrecephalus jalapaensis Bordoni, 2002

Saurohypnus nigerrimus Sharp, 1887

Thyrecephalus nigerrimus (Sharp, 1887): Smetana (1982)

non T. nigerrimus (Kraatz, 1859)

Thyrecephalus jalapaensis Bordoni, 2002: 248

Cited as *Thyrecephalus nigerrimus* (Sharp, 1887) in Navarrete-Heredia *et al.* (2002)

Steninae

Stenus milleporus Casey, 1884

Cited as *Stenus sectilifer* in Navarrete-Heredia *et al.* (2002). *S. sectilifer* as synonym of *S. milleporus* (Ryvkin, 2012).

LITERATURE CITED

- Navarrete-Heredia, J.L. & A.F. Newton. 2013. Biodiversidad de Staphylinidae (Insecta: Coleoptera) en México. *Revista Mexicana de Biodiversidad*, aceptado para su publicación.
- Navarrete-Heredia, J. L., A. F. Newton, M. K. Thayer, J. S. Ashe & D. S. Chandler. 2002. *Guía ilustrada para los géneros de Staphylinidae (Coleoptera) de México/ Illustrated guide to the genera of Staphylinidae (Coleoptera) of Mexico*. Universidad de Guadalajara y Conabio, México, D.F.

ACKNOWLEDGMENTS

This paper is devoted to Dr. Pedro Reyes Castillo for his excellent contributions to the taxonomy and biology of passalid beetles.

Appendix 1

Papers published between 2002-2013 with information on Mexican Staphylinidae. Papers cited in Navarrete-Heredia & Newton (2013) are omitted. Papers with new records not cited in the Guía (Navarrete-Heredia *et al.* 2002), plus original descriptions of some older names of species that are newly added to the Mexican fauna above and not cited in the Guía, are also included.

- Ahn, K.- J. & J.H. Frank. 2011. *Cafius bistratus* (Coleoptera: Staphylinidae), distributional range extension to North Carolina. *Florida Entomologist* 94(3): 709-710.
- Asenjo, A. & C.S. Ribeiro-Costa. 2013. Revision of the Neotropical subgenus *Tropiochirus* of the genus *Leptochirus* Germar 1824 (Coleoptera: Staphylinidae: Osoriinae). *Journal of Natural History* 47 (19-20): 1257-1285.
- Asiain, J. 2005. *Plochionocerus mandibularis* (Sharp, 1885). Coleoptera: Staphylinidae, Xantholinini. *Dugesiana* 12(2): 153-154.
- Asiain, J. & J. Márquez. 2003. Revisión sistemática y análisis filogenético del género *Misantlius* Sharp, 1885 (Coleoptera: Staphylinidae: Staphylininae). *Folia Entomológica Mexicana* 42(1): 37-64.
- Asiain, J., J. Márquez & J. J. Morrone. 2007. Phylogenetic systematics of the genera *Plochionocerus* Dejean and *Agrodes* Nordmann (Coleoptera: Staphylinidae: Xantholinini). *Zootaxa* (1584):1-53.
- Asiain, J., J. Márquez & J. Bueno-Villegas. 2011. The Staphylinidae (Coleoptera) Fauna of Los Marmoles National Park, Hidalgo, Mexico. *Coleopterists Bulletin* 65(4): 393-402.

- Assing, V. 2011. *Luzea* and *Pseudomedon* in the Eastern Palaearctic region, with additional records from the West Palaearctic (Coleoptera: Staphylinidae: Paederinae). *Linzer Biologische Beiträge* 43 (1): 245-252.
- Assing, V. & M. Schülke. 2007. Supplemente zur mitteleuropäischen Staphylinidenfauna (Coleoptera, Staphylinidae). III. *Entomologische Blätter für Biologie und Systematik der Käfer* 102 (1-3): 1-78 (2006).
- Bernhauer, M. 1907. Neue Aleocharini aus Nordamerika (Col.) (3. Stück). *Deutsche Entomologische Zeitschrift* 1907(4): 381-405.
- Bernhauer, M. 1941. Staphylinidae (Col.), pp. 277-293. In: E. Titschack (ed.), *Beiträge zur Fauna Perus*. Vol. 1. Jena.
- Bordoni, A. 2002. *Xantholinini della Regione Orientale (Coleoptera: Staphylinidae). Classificazione, filogenesi e revisione tassonomica*. Monografie 33, Museo Regionale di Scienze Naturali, Torino. 998 pp.
- Burgos Solorio, A. y A. G. Trejo-Loyo. 2001. Lista preliminar de los Coleópteros registrados para el estado de Morelos, México, pp. 69-95. In: Navarrete-Heredia, J. L., H. E. Fierros-López y A. Burgos-Solorio (eds.). *Tópicos sobre Coleoptera de México*. Universidad de Guadalajara y Universidad Autónoma del Estado de Morelos, Guadalajara, Mexico.
- Caballero, U., J. Klimaszewski, & E. Jiménez-Sánchez. 2004. Necrophilous species of *Aleochara* Gravenhorst (Coleoptera: Staphylinidae: Aleocharinae) of the Sierra de Huautla, Morelos, Mexico. *Dugesiana* 10(2):7-19.
- Caballero, U., J.L. León-Cortés & A. Morón-Ríos. 2009. Response of rove beetles (Staphylinidae) to various habitat types and change in Southern Mexico. *Journal of Insect Conservation* 13(1): 67-75.
- Caballero, U. & J.L. León-Cortés. 2012. High diversity beetle assemblages attracted to carrion and dung in threatened tropical oak forests in Southern Mexico. *Journal of Insect Conservation* 16(4): 537-547.
- Caron, E., K. M. Mise & J. Klimaszewski. 2008. *Aleochara pseudochryssorrhoea*, a new species from southern Brazil (Coleoptera: Staphylinidae: Aleocharinae), with a complete checklist of Neotropical species of the genus. *Revista Brasileira de Entomologia* 52 (4): 827-842.
- Caron, E., C. S. Ribeiro-Costa & A. F. Newton. 2012. Cladistic analysis and revision of *Piestus* Gravenhorst with remarks on related genera (Coleoptera: Staphylinidae: Piestinae). *Invertebrate Systematics* 25 (6): 490-585.
- Cejudo-Espinosa, E. & C. Deloya. 2005. Necrophilous Coleoptera from the *Pinus hartwegii* forest of Nevado de Toluca, Mexico. *Folia Entomologica Mexicana* 44(1): 67-73.
- Chandler, D. S., & M. S. Caterino. 2011. A taxonomic revision of the New World genus *Oropodes* Casey (Coleoptera, Staphylinidae, Pselaphinae). *ZooKeys* 147: 425-477.
- Chani-Posse, M. R. 2006. Systematic revision and cladistic analysis of the Neotropical genus *Chroaptomus* Sharp (Coleoptera: Staphylinidae), with descriptions of two new species. *Insect Systematics and Evolution* 37(4): 361-383.
- Chatzimanolis, S. 2012. *Zackfalinus*, a new genus of Xanthopygina (Coleoptera: Staphylinidae: Staphylinini) with description of 20 new species. *Annals of Carnegie Museum* 80 (4): 261-308.
- Croissandeau, J. 1890. [Description d'une nouvelle espèce de Scydmaenidae]. *Bulletin de la Société Entomologique de France* 1890: clvi-clvii.
- Cruz-Angón, A., M. L. Baena & R. Greenberg. 2009. The contribution of epiphytes to the abundance and species richness of canopy insects in a Mexican coffee plantation. *Journal of Tropical Ecology* 25: 453-463.
- Delgado, L. & Q. J. Santiago-Jiménez. 2009. Two new species of *Borboropora* Kraatz from Mexico (Coleoptera: Staphylinidae: Aleocharinae). *Zootaxa* (2094):60-68.
- Eldredge, K. T. 2012. *Lissagria foveolata* (Coleoptera: Staphylinidae: Aleocharinae), a distinctive new species from Mexico. *Journal of the Kansas Entomological Society* 85 (3): 226-230.
- Fierros-Lopez, H. E. 2002. Descripción de dos especies de *Cyparium* Erichson, 1845 (Coleoptera, Staphylinidae) de México. *Dugesiana* 9(2):7-14.
- Fierros-Lopez, H. E. 2005. Revisión del género *Scaphidium* Olivier, 1790 (Coleoptera: Staphylinidae) de México y America Central. *Dugesiana* 12(2):1-152.
- Fierros-Lopez, H. E. 2006. Four new species of *Scaphisoma* Leach with maculate elytra (Coleoptera: Staphylinidae: Scaphidiinae) from Mexico, with new records and comments on *S. balteatum* Matthews. *Zootaxa* (1279): 53-68.
- Fierros-Lopez, H. E. 2010. Description of two new species of *Baeocera* Erichson (Coleoptera: Staphylinidae: Scaphidiinae) from Mexico. *Journal of the Kansas Entomological Society* 83(3): 201-207.
- Frank, J. H. 1998. Staphylinidae, pp. 36-43. In: Woodruff, R. E., B. M. Beck, P. E. Skelley, C. Y. L. Schotman & M. C. Thomas. *Checklist and bibliography of the insects of Grenada and the Grenadines*. Memoir No. 2, Center for Systematic Entomology, Gainesville, Florida.
- Frank, J.H. & M.A. Morón. 2012. Natural history of four species of *Platydracus* Thomson (Coleoptera: Staphylinidae) in *Heliconia bourgaeana* Petersen (Zingiberales: Heliconiaceae) flower bracts. *Insecta Mundi* 0258: 1-12.
- Frank, J.H. & H. Nadel. 2012. Life cycle and behaviour of *Charoxus spinifer* and *Charoxus major* (Coleoptera: Staphylinidae: Aleocharinae), predators of fig wasps (Hymenoptera: Agaonidae). *Journal of Natural History* 46(9-10): 621-635.
- Frank, J. H. & M. C. Thomas. 1984. *Heterota plumbea* and *Coenonica puncticollis* in Florida (Coleoptera: Staphylinidae). *Florida Entomologist* 67: 409-417.
- Franz, H. 1967. Zur Kenntnis der Scydmaenidenfauna von Lateinamerika, pp. 611-724. In: Delamare Deboutteville, C. & E. Rapoport (eds.). *Biologie de l'Amérique Australe*. Vol. 3, *Études sur la Faune du Sol, Documents Biogéographiques*. Centre National de la Recherche Scientifique, Paris. 724 pp.
- Franz, H. 1977. Scydmaeniden aus Mexico (mit einer Revision der von Schaufuss aus Zentralamerika beschriebenen

- Arten). In: *Subterranean fauna of Mexico*, Part III. *Problemi Attuali di Scienza e di Cultura* 171(3): 349-372.
- Franz, H. 1980. Monographie der südamerikanischen Scydmaeniden mit Einschluss einiger mittelamerikanischer Arten (Coleoptera). *Folia Entomologica Hungarica* 41(2): 39-264.
- Franz, H. 1994. Monographie der mexikanischen Vertreter der Familie Scydmaenidae (Coleoptera) (mit einer Untersuchung der Beziehungen der mexikanischen Scydmaeniden zu denen in den benachbarten Gebieten). *Beiträge zur Entomologie* 44: 329-398.
- Grebennikov, V.V. & A.F. Newton. 2008. Minute larvae of Leptotyphlinae (Coleoptera: Staphylinidae): description of three genera with discussion on the monophyly and phylogenetic position of the subfamily as inferred from larval morphology. *Zootaxa* (1817): 49-58.
- Gusarov, V.I. 2003a. A revision of Nearctic species of the genera *Adota* Casey, 1910 and *Psammotiba* Yosii and Sawada, 1976 (Coleoptera: Staphylinidae: Aleocharinae). *Zootaxa* (185): 1-35.
- Gusarov, V.I. 2003b. A revision of the genus *Seeversiella* Ashe, 1986 (Coleoptera: Staphylinidae: Aleocharinae). *Zootaxa* (142):1-102.
- Gusarov, V. I. 2004. A revision of the genus *Lypoglossa* Fenyès, 1918 (Coleoptera: Staphylinidae: Aleocharinae). *Zootaxa* (747):1-36.
- Hanley, R. S. 2002. A new species of Mexican *Tinotus* from the refuse piles of *Atta* ants, including an annotated world catalog of *Tinotus* (Coleoptera: Staphylinidae: Aleocharinae: Aleocharini). *Coleopterists Bulletin* 56(4):453-471.
- Hénaut, Y., S. Machkour-M'Rabet, P. Winterton & S. Calmé. 2010. Insect attraction by webs of *Nephila clavipes* (Araneae: Nephilidae). *Journal of Arachnology* 38(1): 135-138.
- Herman, L. H. 2003. Nomenclatural changes in the Paederinae (Coleoptera: Staphylinidae). *American Museum Novitates* 3416: 1-28.
- Herman, L. H. 2010. Generic revision of the Procirrina (Coleoptera: Staphylinidae: Paederinae: Pinophilini). *Bulletin of the American Museum of Natural History* 347: 1-78.
- Herman, L. H. 2013. Revision of the New World species of *Oedichirus* (Coleoptera: Staphylinidae: Paederinae: Pinophilini: Porcirrina). *Bulletin of the American Museum of Natural History* 375: 1-137.
- Hlaváč, P., A. F. Newton & M. Maruyama. 2011. World catalogue of the species of the tribe Lomechusini (Staphylinidae: Aleocharinae). *Zootaxa* (3075): 1-151.
- Horn, G. H. 1895. Coleoptera of Baja California (Supplement I). *Proceedings of the California Academy of Sciences* (2) 5(1): 225-259, pl. 20.
- Hornung-Leoni, C. T., J. Márquez & J. Bueno-Villegas. 2013. Arthropods associated with *Tillandsia deppeana* (Bromeliaceae) from Hidalgo state, México, with three first state records of Coleoptera species. *Entomological News* 122 (5): 469-476 (2011).
- Horvath, A. & B. Gómez y Gómez. 2003. The Chiapan deer mouse, *Peromyscus zarhynchus* Merriam, 1898 (Rodentia: Muridae), a new host for *Amblyopinus schmidti schmidti* Severs, 1944 (Coleoptera: Staphylinidae). *Acta Zoologica Mexicana (Nueva Serie)* 88:271-274.
- Irmmler, U. 2003. Taxonomy and distribution of the Neotropical species of the genera *Tannea* Blackwelder, 1952 and *Nacaeus* Blackwelder, 1942 with remarks on the genus *Lispinus* (Coleoptera: Staphylinidae). *Bulletin de l'Institut Royal des Sciences Naturelles de Belgique Entomologie* 73:85-134.
- Irmmler, U. 2005a. New Neotropical species of the genus *Holotrochus* (Coleoptera: Staphylinidae: Osoriinae). *Scientific Papers Natural History Museum the University of Kansas* (36):1-18.
- Irmmler, U. 2005b. New species of the genus *Tannea* Blackwelder, 1952 from Central and South America (Coleoptera: Staphylinidae: Osoriinae). *Koleopterologische Rundschau* 75:151-171.
- Irmmler, U. 2006a. The genus *Lispinus* (Coleoptera: Staphylinidae: Osoriinae) in Costa Rica - a key, a new species, ecological and biogeographical remarks. *Brenesia* 66: 1-13.
- Irmmler, U. 2006b. New species and synonymies of the genus *Nacaeus* Blackwelder, 1942 (Coleoptera: Staphylinidae: Osoriinae) from the Neotropical region. *Arthropod Systematics and Phylogeny* 64(2):205-216.
- Irmmler, U. 2007. The *Holotrochus syntheticus* group in the Neotropical region - new species, key and geographical distribution (Coleoptera: Staphylinidae: Osoriinae). *Koleopterologische Rundschau* 77:133-142.
- Irmmler, U. 2009a. New species and records of the genus *Lispinus* with a key to the species from Peru (Coleoptera: Staphylinidae: Osoriinae). *Zootaxa* 2263: 42-58.
- Irmmler, U. 2009b. A second species for the genus *Craspedus* Bernhauer, 1908 from the Neotropical region (Coleoptera: Staphylinidae, Osoriinae). *Dugesiana* 16(2):75-78.
- Irmmler, U. 2010. New Neotropical species of *Holotrochus* Erichson, 1839 with special reference to the H. simplex-group (Coleoptera: Staphylinidae: Osoriinae). *Koleopterologische Rundschau* 80:43-62.
- Irmmler, U. 2012. The Neotropical species of the genera *Pseudospeson* Lecoq, 1994 and *Espeson* Schaufuss, 1882 (Coleoptera: Staphylinidae: Osoriinae). *Beiträge zur Entomologie* 62 (2): 331-360.
- Jałoszyński, P. 2011a. *Cephazteca*, a new Neotropical genus of Cephenniini (Coleoptera: Staphylinidae: Scydmaeninae). *Genus (Wroclaw)* 22(2): 227-240.
- Jałoszyński, P. 2011b. *Eutheia* Stephens (Coleoptera, Staphylinidae, Scydmaeninae) of Central America. *Studies on Neotropical Fauna and Environment* 46(2):121-130.
- Jałoszyński, P. 2012. Beetles with 'trochantelli': phylogeny of Cephenniini (Coleoptera: Staphylinidae: Scydmaeninae) focussing on Neotropical genera. *Systematic Entomology* 37 (3): 448-477.
- Jałoszyński, P. 2013. Taxonomy of 'Euconnus complex'. Part II. Revision of *Archiconnus* Franz, *Parapseudoconnus* Franz

- and *Mexiconnus* gen. nov. (Coleoptera, Staphylinidae, Scydmaeninae). *Zootaxa* 3666 (4): 523-543.
- Jiménez-Sánchez, E. & J. Galián. 2013. Revision of *Dacnochilus* Leconte (= *Acalophaena* Sharp) (Coleoptera: Staphylinidae: Paederinae). *Annals of Carnegie Museum* 81 (2): 73-117.
- Jiménez-Sánchez, E., O. M. Juárez-Gaytán y J. R. Padilla-Ramírez. 2011. Estafilínidos (Coleoptera: Staphylinidae) necrófilos de Malinalco, Estado de México. *Dugesiana* 18(1):73-84.
- Jiménez-Sánchez, E., G. Labrador Chávez, E. López Contreras, J. L. Navarrete-Heredia y J. Padilla-Ramírez. 2009. Escarabajos (Coleoptera: Staphylinidae, Silphidae, Scarabaeidae y Trogidae), pp. 97-102, 395-397. In: G. Ceballos, R. List, G. Garduño, R. López Cano, M. J. Muñozcano Quintanar, E. Collado y J.E. San Román (eds.). *La diversidad biológica del Estado de México. Estudio de estado*. Colección mayor, Estado de México: Patrimonio de un pueblo.
- Kistner, D. H. & R. R. Mooney. 2011. Revision of the Genus *Ecitopora* with Descriptions of New Species (Coleoptera: Staphylinidae). *Sociobiology* 58(2): 269-307.
- Kistner, D. H. & S. M. Berghoff. 2008. New species and new records of myrmecophiles (Coleoptera: Staphylinidae) found in Panama with army ants (Hymenoptera: Formicidae) together with a redescription of the genus *Ecitodonia*. *Sociobiology* 51(3): 601-621.
- Klimaszewski, J., G. Pelletier & C. Majka. 2004. A revision of Canadian *Leptusa* Kraatz (Col., Staphylinidae, Aleocharinae): new species, new distribution records, key and taxonomic considerations. *Belgian Journal of Entomology* 6(1): 3-42.
- Klimaszewski, J., G. Pelletier, M. Maruyama & P. Hlaváč. 2005. Canadian species of the *Zyras* group of genera and review of the types from America north of Mexico (Coleoptera, Staphylinidae, Aleocharinae). *Revue Suisse de Zoologie* 112(3): 703-733.
- Klimaszewski, J., G. Pohl, & G. Pelletier. 2003. Revision of the Nearctic *Silusa* (Coleoptera, Staphylinidae, Aleocharinae). *Canadian Entomologist* 135(2):159-186.
- Márquez, J. 2003a. Ecological patterns in necrophilous Staphylinidae (Insecta: Coleoptera) from Tlayacapan, Morelos, Mexico. *Acta Zoológica Mexicana (Nueva Serie)* (89):69-83.
- Márquez, J. 2003b. Systematic revision of the genera *Homalolinus* and *Ehomalolinus* (Coleoptera, Staphylinidae, Xantholinini). *Zoologica Scripta* 32(6):491-523.
- Márquez, J. 2004. Primeros registros estatales de especies mexicanas de Staphylininae (Coleoptera: Staphylinidae). *Acta Zoologica Mexicana (Nueva Serie)* 20(1):91-97.
- Márquez, J. 2006. Primeros registros estatales y datos de distribución geográfica de especies mexicanas de Staphylinidae (Coleoptera). *Boletín de la Sociedad Entomológica Aragonesa* (38):181-198.
- Márquez, J. 2007. Preliminary analysis of the color variation in *Cyparium terminale* from Mexico, with comments on *C. palliatum*, and a new record for *C. yapalli* (Coleoptera: Staphylinidae, Scaphidiinae). *Entomological News* 118(1): 1-10.
- Márquez, J. 2010a. Redescription of *Belonuchus godmani* (Sharp, 1885) (Coleoptera: Staphylinidae: Staphylininae), with first national and state records. *Entomological News* 121(2): 206-211.
- Márquez, J. 2010b. Revision of the genus *Renda* Blackwelder, 1952 (Coleoptera: Staphylinidae: Xantholinini). *Zootaxa* (2686): 1-61.
- Márquez, J. & J. Asiain. 2005. Taxonomic and biological observations on *Leistotrophus versicolor* (Coleoptera: Staphylinidae) from Mexico. *Entomological News* 115(5): 255-262.
- Márquez, J., & J. Asiain. 2006. A new Mexican species of *Oxyporus* (Coleoptera: Staphylinidae: Oxyporinae). *Zootaxa* (1155): 51-60.
- Márquez, J. & J. Asiain. 2009. Taxonomical comments on *Oxyporus flohri* Sharp (Coleoptera: Staphylinidae) and first record of the species from Hidalgo State, Mexico. *Neotropical Entomology* 38(5): 632-637.
- Márquez, J. & J. Asiain. 2010. Three new species of the *Philonthusfurvus* species group (Coleoptera: Staphylinidae) from Guatemala and Mexico, with taxonomic remarks and distributional records of related Mexican species. *Transactions of the American Entomological Society (Philadelphia)* 136(3-4): 269-288.
- Márquez, J. & J. Asiain. 2012. Primeros registros estatales de especies mexicanas de Staphylinidae (Insecta: Coleoptera). *Acta Zoológica Mexicana (nueva serie)* 28(1): 118-132.
- Márquez, J., J. Asiain, & H. E. Fierros-Lopez. 2005. A new species of *Oxyporus* (Coleoptera: Staphylinidae: Oxyporinae) from Mexico, with notes on some poorly known species. *Zootaxa* (954):1-12.
- Márquez, J., J. Asiain, y Q. J. Santiago-Jiménez. 2003. Especies de Staphylininae (Coleoptera: Staphylinidae) de el "El Mirador", Veracruz, Mexico. *Dugesiana* 10(2):21-46.
- Márquez, J. & J. J. Morrone. 2003. Análisis panbiogeográfico de las especies de *Heterolinus* y *Homalolinus* (Coleoptera: Staphylinidae: Xantholinini). *Acta Zoologica Mexicana (Nueva Serie)* (90):15-25.
- Maruyama, M. & H. Kamezawa. 2013. *Adinopsis nippon*, a new species of marsh-dwelling rove beetle (Coleoptera: Staphylinidae: Aleocharinae: Deinopsini) from Japan, with an annotated catalogue of *Adinopsis* species of the world. *Zootaxa* 3669 (1): 76-84.
- Mooney, R. R. & D. H. Kistner. 2005. Revision of the myrmecophilous genus *Ecitoglossa* (Coleoptera: Staphylinidae). *Sociobiology* 46(2):251-278.
- Morales, C. J. & E. Aguilar Astudillo. 2005. Primeros registros de *Xanthopygus cognatus* Sharp, 1876 y *Xanthopygus sapphirinus* (Erichson, 1839) (Coleoptera: Staphylinidae: Staphylininae) para Chiapas, México. *Dugesiana* 12(2):155.
- Morales, C. J. & E. Aguilar Astudillo. 2012. Primer registro de *Oligotergus mexicanus* (Sharp, 1884) (Coleoptera: Staphylinidae: Staphylininae) para Chiapas, México.

- Dugesiana* 19 (1): 42.
- Navarrete-Heredia, J. L. 2003. A new species of *Philonthus* (Coleoptera: Staphylinidae) from Sonora, Mexico. *Zootaxa* (390):1-7.
- Navarrete-Heredia, J. L. 2004. Sinópsis del género *Xanthopygus* Kraatz, 1857 (Coleoptera: Staphylinidae) de México. *Acta Zoologica Mexicana (Nueva Serie)* 20(3): 1-13.
- Navarrete-Heredia, J. L. 2005a. A new species of *Phanolinus* Sharp (Coleoptera: Staphylinidae) with a key and comments for Mexican species. *Proceedings of the Entomological Society of Washington* 107(4): 887-891.
- Navarrete-Heredia, J. L. 2005b. First record of *Misantlius torquatus* Sharp from Mexico and new data on *Misantlius rufipennis* Sharp (Coleoptera: Staphylinidae). *Folia Entomológica Mexicana* 44(1): 89.
- Navarrete-Heredia, J. L. 2012. New state records for Coleoptera in northern Mexico. *Coleopterists Bulletin* 66(1): 74-75.
- Navarrete-Heredia, J. L. & J. Cortés-Aguilar. 2004. Beetles (Coleoptera) associated with the external debris of *Atta mexicana* (F. Smith) (Hymenoptera: Formicidae) from Ojuelos, Jalisco, Mexico. *Proceedings of the Entomological Society of Washington* 106 (2): 481-482.
- Navarrete-Heredia, J. L., y V. H. Gómez Flores. 2005. Aspectos etnoentomológicos acerca de *Paederus* sp. (Coleoptera: Staphylinidae) in Mascota, Jalisco, Mexico. *Dugesiana* 12(1):9-18.
- Navarrete-Heredia, J. L., C. Gómez-Rodríguez & A. F. Newton. 2006. Staphylinidae (Insecta: Coleoptera) of the Biología Centrali-Americana: current status of the names. *Zootaxa* (1251):1-70.
- Navarrete-Heredia, J. L., H. E. Fierros-Lopez & S. Chatzimanolis. 2006. *Nordus praedator* (Coleoptera: Staphylinidae), a new species from Mexico, with comments on *Nordus championi* Sharp. *Journal of the Kansas Entomological Society* 79(2): 100-106.
- Navarrete-Heredia, J. L., M. Vásquez-Bolaños & G. A. Quiroz-Rocha. 2007. New Mexican distributional data on the Sceptobiini-*Liometopum* association (Coleoptera: Staphylinidae, Aleocharinae-Hymenoptera: Formicidae, Dolichoderinae). *Sociobiology* 49(3): 221-229.
- Noriega, J.A. & J.L. Navarrete-Heredia. 2013. Quantification of Predation on the Dung Beetle *Canthidium cupreum* (Blanchard) (Coleoptera: Scarabaeidae: Scarabaeinae) by *Leistotrophus versicolor* (Gravenhorst) (Coleoptera: Staphylinidae). *The Coleopterists Bulletin* 67(2): 190-193.
- O'Keefe, S. T. 2002. Revision of the Neotropical genus *Leptochromus* Motschulsky (Coleoptera: Scydmaenidae). *Systematic Entomology* 27 (2): 211-234.
- O'Keefe, S. T. 2003. Revision of the Nearctic genus *Papus* Casey (Coleoptera, Scydmaenidae). In: Cuccodoro, G. & R. A. B. Leschen (eds.), Systematics of Coleoptera: Papers celebrating the retirement of Ivan Löbl. *Memoirs on Entomology, International* 17: 257-309.
- O'Keefe, S. T. 2005. Scydmaenidae Leach, 1815. pp. 280-288. In: Beutel, R. G. & R. A. B. Leschen (eds.). *Coleoptera, Beetles. Vol. 1: Morphology and systematics (Archostemata, Adephaga, Myxophaga, Polyphaga partim)*. *Handbuch der Zoologie/Handbook of Zoology. Band/Vol. IV: Arthropoda: Insecta*. Teilband/Part 38. Walter de Gruyter, Berlin & New York.
- Pace, R. 2002. Gyrophaenini and Bolitocharini from South-America (Coleoptera, Staphylinidae). *Nouvelle Revue d'Entomologie* 19(2): 115-139.
- Pace, R. 2008. Description of *Leptonia onorei* n. sp. and *Orphnebius belloii* n. sp. from Ecuador and new synonym of the genus *Leptonia* Sharp 1883 (Coleoptera Staphylinidae). *Tropical Zoology* 21 (2): 253-258.
- Pasnik, G. 2006. A revision of the World species of the genus *Tachyusa* Erichson, 1837 (Coleoptera, Staphylinidae: Aleocharinae). *Zootaxa* (1146):3-152.
- Pedraza, M. del C., J. Márquez y J. A. Gómez-Anaya. 2010. Estructura y composición de los ensamblajes estacionales de coleópteros (Insecta: Coleoptera) del bosque mesófilo de montaña en Tlanchinol, Hidalgo, México, recolectados con trampas de intercepción de vuelo. *Revista Mexicana de Biodiversidad* 81(2): 437-456.
- Puthz, V. 2002. On four Mexican Euaesthetinae (Coleoptera: Staphylinidae) (85th- contribution to the knowledge of Euaesthetinae). *Dugesiana* 9(2): 55-58.
- Puthz, V. 2006a. On some *Stenus* species from Latin America (Coleoptera: Staphylinidae) (292nd contribution to the knowledge of Steninae). *Dugesiana* 13(1): 1-21.
- Puthz, V. 2006b. Revision of the Neotropical *Stenus* (*Tesnus*) species (Coleoptera: Staphylinidae). 288th Contribution to the knowledge of Steninae. *Revue Suisse de Zoologie* 113(3): 617-674.
- Puthz, V. 2012. Über die neuweltlichen *Megalopinus*-Arten (Coleoptera, Staphylinidae) (24. Beitrag zur Kenntnis der Megalopsidiinen). *Linzer Biologische Beiträge* 44 (1): 613-834.
- Ramos-Elorduy, J., y J. M. Pino Moreno. 2004. Los Coleoptera comestibles de México. *Anales del Instituto de Biología Universidad Nacional Autónoma de México Serie Zoología* 75(1): 149-183.
- Rodríguez, W.D. & J.L. Navarrete-Heredia. 2013. Primer registro de *Ischnosoma arizonense* Campbell, 1991 (Coleoptera, Staphylinidae, Tachyporinae) para México. *Boletín de la Sociedad Entomológica Aragonesa (S.E.A.)* (52): 290.
- Ryvkin, A. B. 2012. New species and records of *Stenus* (*Nestus*) of the *canaliculatus* group, with the erection of a new species group (Insecta: Coleoptera: Staphylinidae: Steninae). *European Journal of Taxonomy* 13: 1-62.
- Sánchez-Rojas, G., I. Castellanos, & A. Márquez-Vázquez. 2011. Sampling necrophagous and predatory insects using different lures in a Mexican pine forest. *Revista Mexicana de Biodiversidad* 82(3): 1037-1040.
- Santiago-Jiménez, Q. J. 2008. A new species of *Dinothenarus* (Coleoptera: Staphylinidae) from Mexico. *Zootaxa* (1851):51-57.
- Santiago-Jiménez, Q. J. 2010. Revision of the genus *Falagonia* (Coleoptera: Staphylinidae: Aleocharinae: Lomechusini), With Description of Related Genera. *Sociobiology* 55(3):

- 643-723.
- Schaufuss, C. 1891. Miscellanea Coleopterologica. II. *Entomologische Nachrichten* 17: 33-34.
- Schaufuss, L. W. 1866. Monographie der Scydmaeniden Central- und Sudamerika's. *Novorum Actorum Academiae Caesareae Leopoldino-Carolinae Germanicae Naturae Curiosorum* 33 (6): 1-103, pls. 1-4.
- Schaum, H. R. 1841. *Analecta entomologica (dissertatio inauguralis). I. Symbolae ad monographiam Scydmaenorum*, pp. 1-31. Voss, Lipsiae, Halis Saxonum.
- Scheerpeltz, O. 1965. Die bis jetzt aus Venezuela bekannt gewordenen Arten der Gattung *Paederus* Fabricius. *Acta Biologica Venezuelica* 4: 213-227.
- Sharp, D. 1887. Fam. Scydmaenidae, pp. 46-71, pl. 2. In: *Biologia Centrali-Americana*. Insecta. Coleoptera. Vol. 2 (1). Taylor & Francis, London. xii + 717 pp., 19 pls. [Available from URL: <<http://www.sil.si.edu/digitalcollections/bca/>>]
- Smetana, A. 2004. Staphylinidae [except Pselaphinae, Scaphidiinae]. pp. 29-35, 237-272, 329-495, 504-698. In: Löbl, I. & A. Smetana (eds.). *Catalogue of Palaearctic Coleoptera*. Vol. 2. Hydrophiloidea - Histeroidea - Staphylinoidea. Apollo Books, Stenstrup. 942 pp.
- Solórzano-Kraemer, M. M. 2010. Mexican amber. pp. 42-56. In: Penney, D. (ed.). *Biodiversity of fossils in amber from the major world deposits*. Siri Scientific Press, Manchester, UK.
- Thayer, M. K. 2003. Omaliinae of Mexico: new species, combinations, and records (Coleoptera, Staphylinidae). *Memoirs on Entomology International* 17: 311-358.
- Thayer, M. K. 2005. Staphylinidae Latreille, 1802. pp. 296-344. In: Beutel, R. G. & R. A. B. Leschen (eds.). *Coleoptera, Beetles*. Vol. 1: *Morphology and systematics (Archostemata, Adephaga, Myxophaga, Polyphaga partim)*. *Handbuch der Zoologie/Handbook of Zoology*. Band/Vol. IV: Arthropoda: Insecta (N.P. Kristensen & R.G. Beutel, eds.). Teilband/Part 38. Walter de Gruyter, Berlin & New York.
- Thayer, M. K., & F. F. Purrington. 2004. *Bledius beattyi* Blackwelder (Coleoptera: Staphylinidae: Oxytelinae), new to the United States, and co-occurrences of some *Bledius* Leach and *Dyschiriodes* Jeannel (Coleoptera: Carabidae: Scaritinae) species in South Florida. *Coleopterists Bulletin* 58(3): 439-442.
- Thayer, M. K., J. S. Ashe, & R. S. Hanley. 2004. Discovery of the remarkable larvae of Hoplandriini (Coleoptera: Staphylinidae: Aleocharinae). *Annals of the Entomological Society of America* 97(4): 624-634.
- Waterhouse, C. O. 1879. Descriptions of new Coleoptera from Medellin, Colombia, recently added to the British Museum collection. *Cistula Entomologica* 2: 421-429.
- Waterhouse, G. R. 1858. [Description of four species of Staphylinidae, believed to be new]. *Transactions of the Entomological Society of London (Proceedings)* 1858-1859: 14-17.
- Zerche, L. 2003. *Pseudopsis*-Studien 6: Neue Arten und neue Funde aus der Paläarkt, der Nearktis und der Neotropis (Insecta: Coleoptera: Staphylinidae: Pseudopsinae). *Entomologische Abhandlungen (Dresden)* 60: 161-169.

Recibido: 29 de julio 2013

Aceptado: 26 de agosto 2013

Additions after the paper was accepted

Brunke and Solodovnikov (2013) after a phylogenetic analysis of the Tribe Staphylinini reinstate the genus *Quedionuchus* previously considered as part of *Quedius*. This taxonomic action affects some Mexican species. Those changes are summarized here. All the species were cited in the *Guía* as belonging to the genus *Quedius*.

- Quedionuchus atl* (Smetana, 1975)
Quedionuchus calli (Smetana, 1976)
Quedionuchus coatl (Smetana, 1976)
Quedionuchus ehacatl (Smetana, 1976)
Quedius impunctus (Solsky, 1868)
Quedionuchus olin (Smetana, 1976)
Quedionuchus ozomatli (Smetana, 1975)
Quedius pecki (Smetana, 1975)
Quedionuchus schultzei (Smetana, 1975)
Quedionuchus spinipes Sharp, 1884
Quedionuchus tecpatl (Smetana, 1976)
Quedionuchus xochitl (Smetana, 1976).

Brunke, A. J. & A. Solodovnikov. 2013. *Alesiella* gen. n. and a newly discovered relict lineage of Staphylinini (Coleoptera: Staphylinidae). *Systematic Entomology* 38: 689-707.

CIENCIA *y* ARTE

Revista para la
Divulgación
de la
Ciencia
y
las Artes

Diciembre 2013
Año 2, vol. 2
Número 3



David Alvarado Cortes

Visita Ciencia y Arte

<https://sites.google.com/site/glenusmx/ciencia-y-arte>