

Contents

<p>Editors' preface. V</p> <p>Contributors XI</p> <p>1. Changes in classification and list of families and subfamilies <i>John F. Lawrence, Rolf G. Beutel, Richard A. B. Leschen and Adam Ślipiński</i> 1</p> <p>2. Glossary of Morphological Terms <i>John F. Lawrence, Rolf G. Beutel, Richard A. B. Leschen and Adam Ślipiński</i> 9</p> <p>3. Adephaga (Addendum) Introduction and Phylogeny <i>Rolf G. Beutel, Ignacio Ribera and Michael Balke</i> 21</p> <p>3.1. Aspidytidae Ribera, Beutel, Balke and Vogler, 2002 <i>Rolf G. Beutel, Michael Balke and Ignacio Ribera</i> 21</p> <p>3.2. Meruidae Spangler and Steiner 2005 <i>Rolf G. Beutel, Michael Balke and Warren E. Steiner</i> 28</p> <p>4. Elateroidea Introduction, Phylogeny <i>John F. Lawrence, Ladislav Bocak, Milada Bocakova, Rolf G. Beutel and Jyrki Muona</i> 35</p> <p>4.1. Rhinorhipidae Lawrence, 1988 <i>John F. Lawrence</i> 38</p> <p>4.2. Artematopodidae Lacordaire, 1857 <i>John F. Lawrence</i> 42</p> <p>4.3. Brachypsectridae Horn, 1881 <i>Cleide Costa, Sergio A. Vanin, John F. Lawrence, Sergio Ide and Marc A. Branham</i> 47</p> <p>4.4. Cerophytidae Latreille, 1834 <i>Cleide Costa, Sergio A. Vanin, John F. Lawrence and Sergio Ide</i> 54</p> <p>4.5. Eucnemidae Eschscholtz, 1829 <i>Jyrki Muona</i> 61</p> <p>4.6. Throscidae Laporte, 1840 <i>Jyrki Muona, John F. Lawrence and Adam Ślipiński</i> 69</p> <p>4.7. Elateridae Leach, 1815 <i>Cleide Costa, John F. Lawrence and Simone Policena Rosa</i> 75</p>	<p>4.8. Plastoceridae Crowson, 1972 <i>Marc A. Branham</i> 103</p> <p>4.9. Family Drilidae Blanchard, 1845 <i>Ladislav Bocak, Marc A. Branham and Robin Kundrata</i> 104</p> <p>4.10. Family Omalisidae Lacordaire, 1857 <i>Ladislav Bocak and Milada Bocakova</i> 110</p> <p>4.11. Lycidae Laporte, 1836 <i>Ladislav Bocak and Milada Bocakova</i> 114</p> <p>4.12. Telegeusidae Leng, 1920 <i>John F. Lawrence</i> 123</p> <p>4.13. Phengodidae LeConte, 1861 <i>Cleide Costa and Santiago Zaragoza-Caballero</i> 126</p> <p>4.14. Rhagophthalmidae Olivier, 1907 <i>Itsuro Kawashima, John F. Lawrence and Marc A. Branham</i> 135</p> <p>4.15. Lampyridae Latreille, 1817 <i>Marc A. Branham</i> 141</p> <p>4.16. Omethidae LeConte, 1861 <i>Alistair S. Ramsdale</i> 149</p> <p>4.17. Cantharidae Imhoff, 1856 <i>Alistair S. Ramsdale</i> 153</p> <p>4.18. Elateriformia <i>Incertae Sedis</i> <i>John F. Lawrence, Itsuro Kawashima and Marc A. Branham</i> 162</p> <p>5. Derodontiformia Introduction, Phylogeny <i>John F. Lawrence, Rolf G. Beutel and Richard A. B. Leschen</i> 179</p> <p>5.1. Derodontidae LeConte, 1861 <i>Richard A. B. Leschen and Rolf G. Beutel</i> 180</p> <p>5.2. Nosodendridae Erichson, 1846 <i>Richard A. B. Leschen and Rolf G. Beutel</i> . . . 185</p> <p>5.3. Jacobsoniidae Heller, 1926 <i>John F. Lawrence and Richard A. B. Leschen</i> 190</p> <p>6. Bostrichiformia Latreille 1802 <i>John F. Lawrence, Richard A. B. Leschen and Rolf G. Beutel</i> 197</p> <p>6.1. Dermestidae Latreille, 1804 <i>John F. Lawrence and Adam Ślipiński</i> 198</p> <p>6.2. Endecatomididae LeConte, 1861 <i>John F. Lawrence</i> 206</p>
---	---

6.3.	Bostrichidae Latreille, 1802 <i>John F. Lawrence</i>	209	10.3.	Helotidae Reitter, 1876/Chapuis, 1876 <i>John F. Lawrence, Adam Ślipiński and Chi-Feng Lee</i>	292
6.4.	Ptinidae Latreille, 1802 <i>T. Keith Philips and Karen L. Bell</i>	217	10.4.	Protocucujidae Crowson, 1954 <i>Adam Ślipiński and Rolf G. Beutel</i>	296
7.	Cucujiformia Lameere, 1938 Introduction, Phylogeny <i>Richard A. B. Leschen and Adam Ślipiński</i>	227	10.5.	Sphindidae Jacquelin du Val, 1861 <i>Juanita A. Forrester and Joseph V. McHugh</i>	300
8.	Lymexloidae Fleming, 1821 <i>John F. Lawrence</i>	229	10.6.	Biphyllidae LeConte, 1861 <i>Andrew R. Cline and Floyd W. Shockley</i> . . .	306
9.	Cleroidea Latreille, 1802 Introduction and Phylogeny <i>Richard A. B. Leschen</i>	237	10.7.	Erotylidae Leach, 1815 <i>Richard A. B. Leschen, Paul E. Skelley and Joseph V. McHugh</i>	311
9.1.	Phloiophilidae Kiesenwetter, 1863 <i>John F. Lawrence and Richard A. B. Leschen</i>	239	10.8.	Monotomidae Laporte, 1840 <i>Yves Bousquet</i>	319
9.2.	Trogossitidae Fabricius, 1801 <i>Jiří Kolibáč and Richard A. B. Leschen</i>	241	10.9.	Hobartiidae Sen Gupta and Crowson, 1966 <i>Wioletta Tomaszewska and Adam Ślipiński</i>	324
9.3.	Chaetosomatidae Crowson, 1952 <i>Richard A. B. Leschen</i>	247	10.10.	Cryptophagidae Kirby, 1837 <i>Richard A. B. Leschen</i>	327
9.4.	Metaxinidae Kolibáč, 2004 <i>Jiří Kolibáč and Richard A. B. Leschen</i>	250	10.11.	Agapythidae Sen Gupta and Crowson, 1969 <i>Richard A. B. Leschen and John F. Lawrence</i>	334
9.5.	Thanerocleridae Chapin, 1924 <i>Jiří Kolibáč and Richard A. B. Leschen</i>	253	10.12.	Priasilphidae Crowson, 1973 <i>Richard A. B. Leschen and John F. Lawrence</i>	336
9.6.	Cleridae Latreille, 1802 <i>Jiří Kolibáč</i>	257	10.13.	Phloeostichidae Reitter, 1911 <i>John F. Lawrence and Adam Ślipiński</i>	340
9.7.	Acanthocnemidae Crowson, 1964 <i>John F. Lawrence and Richard A. B. Leschen</i>	262	10.14.	Silvanidae Kirby, 1837 <i>Michael C. Thomas and Richard A. B. Leschen</i>	346
9.8.	Phycosecidae Crowson, 1952 <i>Richard A. B. Leschen and Rolf G. Beutel</i>	265	10.15.	Cucujidae Latreille, 1802 <i>Michael C. Thomas and Richard A. B. Leschen</i>	350
9.9.	Prionoceridae Lacordaire, 1857 <i>John F. Lawrence and Richard A. B. Leschen</i>	268	10.16.	Myraboliidae Lawrence and Britton, 1991 <i>Adam Ślipiński, Wioletta Tomaszewska and John F. Lawrence</i>	354
9.10.	Mauroniscidae Majer, 1994 <i>John F. Lawrence</i>	271	10.17.	Cavognathidae Sen Gupta and Crowson, 1966 <i>Adam Ślipiński and Wioletta Tomaszewska</i>	357
9.11.	Melyridae Leach, 1815 <i>John F. Lawrence and Richard A. B. Leschen</i>	273	10.18.	Lamingtoniidae Sen Gupta and Crowson, 1969 <i>John F. Lawrence and Richard A. B. Leschen</i>	360
10.	Cucujoidea, Latreille, 1802 Introduction, Phylogeny <i>Richard A. B. Leschen and Adam Ślipiński</i>	281	10.19.	Passandridae Blanchard, 1845/ Erichson, 1845 <i>Daniel Burckhardt and Adam Ślipiński</i>	363
10.1.	Boganiidae Sen Gupta and Crowson, 1966 <i>John F. Lawrence and Adam Ślipiński</i>	282	10.20.	Phalacridae Leach, 1815 <i>John F. Lawrence, Matthew L. Gimmel and Warren E. Steiner, Jr.</i>	368
10.2.	Byturidae Jacquelin duVal, 1858 <i>Andrew R. Cline, Michael A. Goodrich and Richard A. B. Leschen</i>	286			

10.21. Propalticidae Crowson, 1952 <i>John F. Lawrence</i>	374	11.3. Pterogeniidae Crowson, 1953 <i>John F. Lawrence</i>	501
10.22. Laemphloeidae Ganglbauer, 1899 <i>Michael C. Thomas and Richard A. B. Leschen</i>	376	11.4. Ciidae Leach in Samouelle, 1819 <i>John F. Lawrence and Cristiano Lopes-Andrade</i>	504
10.23. Tasmosalpingidae Lawrence and Britton, 1991 <i>John F. Lawrence and Adam Ślipiński</i>	381	11.5. Tetratomidae Billberg, 1820 <i>John F. Lawrence and Richard A. B. Leschen</i>	514
10.24. Cyclaxyridae Gimmel, Leschen & Ślipiński, 2009 <i>Richard A. B. Leschen, Matthew L. Gimmel and Adam Ślipiński</i>	383	11.6. Melandryidae Leach, 1815 <i>Nikolai B. Nikitsky and Darren A. Pollock</i>	520
10.25. Kateretidae Erichson in Agassiz, 1846 <i>Josef Jelínek and Andrew R. Cline</i>	386	11.7. Mordellidae Latreille, 1802 <i>John F. Lawrence and Adam Ślipiński</i>	533
10.26. Nitidulidae Latreille, 1802 <i>Josef Jelínek, Chris Carlton, Andrew R. Cline and Richard A. B. Leschen</i>	390	11.8. Ripiphoridae Gemminger and Harold, 1870 (Gerstaecker, 1855) <i>John F. Lawrence, Zachary H. Falin and Adam Ślipiński</i>	538
10.27. Smicripidae Horn, 1879 <i>Andrew R. Cline</i>	407	11.9. Zopheridae Solier, 1834 <i>Adam Ślipiński and John F. Lawrence</i>	548
10.28. Bothrideridae Erichson, 1845 <i>Adam Ślipiński, Nathan Lord and John F. Lawrence</i>	411	11.10. Ulodidae Pascoe, 1869 <i>Richard A. B. Leschen and Adam Ślipiński</i>	559
10.29. Cerylonidae Billberg, 1820 <i>Adam Ślipiński and John F. Lawrence</i>	422	11.11. Promecheilidae Lacordaire, 1859 <i>John F. Lawrence, Adam Ślipiński and Mario Elgueta</i>	563
10.30. Alexiidae Imhoff, 1856 <i>Adam Ślipiński and Wioletta Tomaszewska</i>	432	11.12. Chalcodryidae Watt, 1974 <i>John F. Lawrence and Richard A. B. Leschen</i>	567
10.31. Discolomatidae Horn, 1878 <i>Andrew R. Cline and Adam Ślipiński</i>	435	11.13. Trachelostenidae Lacordaire, 1859 <i>John F. Lawrence and Adam Ślipiński</i>	571
10.32. Endomychidae Leach, 1815 <i>Wioletta Tomaszewska</i>	442	11.14. Tenebrionidae Latreille, 1802 <i>Eric G. Matthews, John F. Lawrence, Patrice Bouchard, Warren E. Steiner, Jr. and Adam Ślipiński</i>	574
10.33. Coccinellidae Latreille, 1802 <i>Adam Ślipiński and Wioletta Tomaszewska</i>	454	11.15. Prostomidae G. G. Thomson, 1859 <i>Ainsley Seago and Rolf G. Beutel</i>	659
10.34. Corylophidae LeConte, 1852 <i>Adam Ślipiński, John F. Lawrence and Andrew R. Cline</i>	472	11.16. Synchronidae Lacordaire, 1859 <i>Adam Ślipiński and John F. Lawrence</i>	667
10.35. Latridiidae Erichson, 184 <i>Christopher S. Hartley and Joseph V. McHugh</i>	481	11.17. Stenotrachelidae C. G. Thomson, 1859 <i>John F. Lawrence and Adam Ślipiński</i>	670
11. Tenebrionoidea Introduction, Phylogeny <i>John F. Lawrence, Darren A. Pollock and Adam Ślipiński</i>	487	11.18. Oedemeridae Latreille, 1810 <i>John F. Lawrence and Adam Ślipiński</i>	674
11.1. Mycetophagidae Leach, 1815 <i>John F. Lawrence and Richard A. B. Leschen</i>	491	11.19. Meloidae Gyllenhal, 1810 <i>Marco A. Bologna, Federica Turco and John D. Pinto</i>	681
11.2. Archeocrypticidae Kaszab, 1964 <i>John F. Lawrence</i>	496	11.20. Mycteridae Blanchard, 1845 <i>Darren A. Pollock</i>	693

11.21. Boridae C. G. Thomson, 1859 <i>Darren A. Pollock</i>	699	11.26. Anthicidae Latreille, 1819 <i>Donald S. Chandler</i>	729
11.22. Trictenotomidae Blanchard, 1845 <i>Darren A. Pollock and Dmitry Telnov</i>	704	11.27. Aderidae Winkler, 1927 <i>John F. Lawrence and Adam Ślipiński</i>	741
11.23. Pythidae Solier, 1834 <i>Darren A. Pollock</i>	708	11.28. Scaptiidae Mulsant, 1856 <i>John F. Lawrence and Adam Ślipiński</i>	746
11.24. Pyrochroidae Latreille, 1807 <i>Daniel K. Young and Darren A. Pollock</i>	715	11.29. Tenebrionoidea Incertae sedis <i>John F. Lawrence, Hermes Escalona and Richard A. B. Leschen</i>	750
11.25. Salpingidae Leach, 1815 <i>John F. Lawrence, Adam Ślipiński, Darren A. Pollock and Hermes Escalona</i>	722	Taxonomic Index	761