



Virtual Issue: Larval information in entomological systematics

Systematic
Entomology

The preparation of this 'virtual' issue of *Systematic Entomology* is timed to coincide with a symposium on the *Immature Stages in Insect Systematics* at the annual meeting of the Entomological Society of America in Reno, Nevada, 2008. Moderated and organised by Caroline Chaboo, University of Kansas, USA and Yves Alarie, Laurentian University, Canada, this topical theme reminds us of the importance of the 'baby bugs' in entomological studies. The theme of this issue of *Systematic Entomology* and the ESA symposium, concerns the incorporation into systematic studies of life history stages that have been ignored or of limited previous use in entomological systematics. The collected papers, and symposium presentations, emphasise characters of immature stages and their incorporation into phylogenetic analyses, providing many new insights. With the growth of molecular diagnostics, we can expect to see great advances in the association of many more immature stages with their better-known adults, and undoubtedly the generation of new ideas on relationships that were based previously only on the adult semaphoronts. The editors of *Systematic Entomology* will be happy to see the results of such research appearing in future issues of the journal.

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[Association of insect life stages using DNA sequences: the larvae of *Philodytes umbrinus* \(Motschulsky\) \(Coleoptera: Dytiscidae\)](#)

Kelly B. Miller, Yves Alarie, G. William Wolfe, Michael F. Whiting

DOI: 10.1111/j.1365-3113.2005.00320.x



[Hasinamelissa: a new genus of allodapine bee from Madagascar revealed by larval morphology and DNA sequence data](#)

Luke B. Chenoweth, Susan Fuller, Simon M. Tierney, Yung C. Park, Michael P. Schwarz

DOI: 10.1111/j.1365-3113.2008.00432.x



[Phylogeny of Berosini \(Coleoptera: Hydrophilidae, Hydrophilinae\) based on larval and adult characters, and evolutionary scenarios related to habitat shift in larvae](#)

Miguel Archangelsky

DOI: 10.1111/j.1365-3113.2008.00425.x



[Larval morphology enhances phylogenetic reconstruction in Cetoniidae \(Coleoptera: Scarabaeoidea\) and allows the interpretation of the evolution of larval feeding habits](#)

Estefania Micó, Miguel Ángel Morón, Petr Ípek, Eduardo Galante

DOI: 10.1111/j.1365-3113.2007.00399.x










[Phylogeny of the bees of the family Apidae based on larval characters with focus on the origin of cleptoparasitism \(Hymenoptera: Apiformes\)](#)

Jakub Straka, Petr Bogusch

DOI: 10.1111/j.1365-3113.2007.00394.x

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-  [Phylogeny of Psephenidae \(Coleoptera: Byrrhoidea\) based on larval, pupal and adult characters](#)
Chi-Feng Lee, Masataka Satô, William D. Shepard, Manfred A. Jäch
DOI: 10.1111/j.1365-3113.2006.00374.x
-  [Revision of the net-winged midge genus *Horaia* Tonnoir and its phylogenetic relationship to other genera within the tribe Apistomyiini \(Diptera: Blephariceridae\)](#)
Joel F. Gibson, Gregory W. Courtney
DOI: 10.1111/j.1365-3113.2006.00360.x
-  [A phylogenetic study of Dermestidae \(Coleoptera\) based on larval morphology](#)
Tatiana Kiselyova, Joseph V. Mchugh
DOI: 10.1111/j.1365-3113.2006.00335.x
-  [Phylogenetic analysis of Geotrupidae \(Coleoptera, Scarabaeoidea\) based on larvae](#)
José R. Verdú, Eduardo Galante, Jean-Pierre Lumaret, Francisco J. Cabrero-Sañudo
DOI: 10.1111/j.0307-6970.2004.00256.x
-  [Higher-level phylogeny of Hydrophilinae \(Coleoptera: Hydrophilidae\) based on larval, pupal and adult characters](#)
Miguel Archangelsky
DOI: 10.1111/j.0307-6970.2004.00237.x
-  [Phylogenetic analysis of Staphyliniformia \(Coleoptera\) based on characters of larvae and adults](#)
Rolf G. Beutel, Richard A. B. Leschen
DOI: 10.1111/j.1365-3113.2005.00293.x
-  [Review of competing hypotheses of phylogenetic relationships of Paussinae \(Coleoptera: Carabidae\) based on larval characters](#)
Andrea Di Giulio, Simone Fattorini, Andreas Kaupp, Augusto Vigna Taglianti, Peter Nagel
DOI: 10.1046/j.1365-3113.2003.00227.x

Aims and Scope of *Systematic Entomology*

Systematic Entomology encourages the submission of taxonomic papers that contain information of interest to a wider audience, e.g. papers bearing on the theoretical, genetic, agricultural, medical and biodiversity issues. Emphasis is also placed on the selection of comprehensive, revisionary or integrated systematics studies of broader biological or zoogeographical relevance.

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