

**PHYLOGENY AND GENERIC CLASSIFICATION OF
THE
SUBFAMILY LYCOPERDININAE WITH
A RE-ANALYSIS OF THE FAMILY ENDOMYCHIDAE
(COLEOPTERA: CUCUJOIDEA)**

K. Wioletta Tomaszewska

*Muzeum i Instytut Zoologii PAN; Wilcza 64, 00-679 Warszawa, Poland,
e-mail: wiolkat@miiz.waw.pl*

Contents

Introduction	3
Main subject of study	3
Historical view	3
Present position and current research.	4
Immature stages and biology	4
Material and methods	5
Taxonomy	6
Lycoperdininae Redtenbacher	6
Characteristics of the subfamily	6
Key to the adults	7
Key to the larvae	11
Adult morphology	11
Genera <i>incertae sedis</i>	64
Larval morphology	64
Endomychidae Leach.	77
New synonym and lectotype designation.	77
Phylogenetic analysis	77
Methods	77
Taxa used in analysis	77
Characters and discussion.	79
Adult characters	79
Larval characters	84
Results	86
Phylogeny of Endomychidae	91
Merophysinae.	91
Pleganophorinae and Anamorphinae	91
Leiestinae	91
Mycetaeinae.	92
Eupsilobiinae.	92

Xenomycetinae and Danascelinae	92
The “Higher Endomychidae” (Endomychinae, Stenotarsinae, Epipocinae and Lycoperdininae)	92
Phylogeny of Lycoperdininae	93
<i>Daulis</i> -group	93
<i>Lycoperdina</i> -grou.	93
<i>Amphix</i> -group	93
<i>Amphisternus</i> -group ..	93
<i>Eumorphus</i> -group	94
Biogeography.	94
Acknowledgements	96
References.	96