



Zootaxa 2686: 1–61 (2010)
www.mapress.com/zootaxa/

Copyright © 2010 · Magnolia Press

Monograph

ISSN 1175-5326 (print edition)

ZOOTAXA

ISSN 1175-5334 (online edition)

ZOOTAXA

2686

Revision of the genus *Renda* Blackwelder, 1952 (Coleoptera: Staphylinidae: Xantholinini)

JUAN MÁRQUEZ

Laboratorio de Sistemática Animal, Centro de Investigaciones Biológicas, Universidad Autónoma del Estado de Hidalgo. Apartado postal 1-69, Plaza Juárez, Pachuca, Hidalgo, México, CP 42001. E-mail jmarquez@uaeh.edu.mx



Magnolia Press
Auckland, New Zealand

Accepted by A. Solodovnikov: 6 Oct. 2010; published: 24 Nov. 2010

JUAN MÁRQUEZ

Revision of the genus *Renda* Blackwelder, 1952 (Coleoptera: Staphylinidae: Xantholinini)

(*Zootaxa* 2686)

61 pp.; 30 cm.

24 November 2010

ISBN 978-1-86977-605-3 (paperback)

ISBN 978-1-86977-606-0 (Online edition)

FIRST PUBLISHED IN 2010 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: zootaxa@mapress.com

<http://www.mapress.com/zootaxa/>

© 2010 Magnolia Press

All rights reserved.

No part of this publication may be reproduced, stored, transmitted or disseminated, in any form, or by any means, without prior written permission from the publisher, to whom all requests to reproduce copyright material should be directed in writing.

This authorization does not extend to any other kind of copying, by any means, in any form, and for any purpose other than private research use.

ISSN 1175-5326 (Print edition)

ISSN 1175-5334 (Online edition)

Table of contents

Abstract	4
Resumen	4
Introduction	4
Material and methods	5
Results and discussion	6
Key to determine <i>Renda</i> from related genera (modified from Asiain <i>et al.</i> , 2007)	6
<i>Renda</i> Blackwelder, 1952.....	7
Key to determine the species of <i>Renda</i>	10
Descriptions of the species of <i>Renda</i>	13
<i>Renda bicarinata</i> sp. nov.	13
<i>Renda brachyptera</i> (Sharp, 1885).....	15
<i>Renda flagellicornis</i> (Nordmann, 1837)	16
<i>Renda formicaria</i> (Laporte, 1835)	18
<i>Renda glabrinotum</i> sp. nov.	20
<i>Renda grandipenis</i> sp. nov.	21
<i>Renda profundepunctata</i> (Bernhauer, 1927)	22
<i>Renda sharpi</i> sp. nov.	31
<i>Renda cyanea</i> sp. nov.	32
<i>Renda fasciata</i> sp. nov.	32
<i>Renda fulgida</i> sp. nov.	33
<i>Renda leprieuri</i> (Laporte, 1835)	34
<i>Renda simplicephala</i> sp. nov.	35
<i>Renda brasiliana</i> (Bernhauer, 1927)	36
<i>Renda debilis</i> (Sharp, 1885)	37
<i>Renda lescheni</i> sp. nov.	38
<i>Renda longiceps</i> sp. nov.	38
<i>Renda mesoamericana</i> sp. nov.	39
<i>Renda minor</i> (Sharp, 1876)	41
<i>Renda nitida</i> sp. nov.	43
<i>Renda raulmunizi</i> sp. nov.	44
<i>Renda brendelli</i> sp. nov.	45
<i>Renda brevipennis</i> sp. nov.	45
<i>Renda cariniventris</i> sp. nov.	46
<i>Renda clavicornis</i> (Sharp, 1876)	47
<i>Renda fimetaria</i> (Sharp, 1876)	49
<i>Renda fimetariamimus</i> sp. nov.	50
<i>Renda pronotalis</i> sp. nov.	51
<i>Renda julietae</i> sp. nov.	51
<i>Renda ophthalmica</i> sp. nov.	52
<i>Renda palpalis</i> sp. nov.	53
Cladistic analysis	54
Acknowledgements	58
References	58
Appendix	59

Abstract

The genus *Renda* Blackwelder, 1952 is revised and redescribed. Thirteen previously described species of *Renda* are redescribed and twenty-one species are described as new. *Renda funebris* (Sharp, 1876) is proposed as a junior synonym of *R. flagellicornis* (Nordmann, 1837), *R. pubescens* (Nordmann, 1837) as a junior synonym of *R. formicaria* (Laporte, 1835), and *R. dalmasi* (Fauvel, 1901) as a junior synonym of *R. minor* Sharp, 1876. A key to the species of *Renda* is provided and diagnostic characters are illustrated. A generic key for a group of genera consisting of *Renda*, *Agrodes* and *Plochionocerus* is also included. A phylogenetic analysis was performed to analyze the relationships among *Renda* species, based on the study of 416 specimens belonging to 31 species. The strict consensus tree supports the monophyly of the genus, but species relationships within *Renda* are poorly resolved, with only two species groups recovered as monophyletic clades.

Key words: Staphylinidae, cladistic analysis, taxonomy, Neotropics

Resumen

Se revisó el género *Renda* Blackwelder, 1952, con redescrición del género y de las trece especies descritas. Se describen 21 especies nuevas en este trabajo. *Renda funebris* (Sharp, 1876) se propone como sinónimo junior de *R. flagellicornis* (Nordmann, 1837), *R. pubescens* (Nordmann, 1837) como sinónimo junior de *R. formicaria* (Laporte, 1835), y *R. dalmasi* (Fauvel, 1901) como sinónimo junior de *R. minor* Sharp, 1876. Se incluye una clave dicotómica para todas las especies de *Renda*, en adición a los comentarios taxonómicos, distribución geográfica e ilustraciones de caracteres diagnósticos, así como también una clave para la identificación de los géneros *Renda*, *Agrodes* y *Plochionocerus*. Se llevó a cabo un análisis filogenético para conocer las relaciones filogenéticas de las especies de *Renda* con base en el estudio de 416 ejemplares de 31 especies. El cladograma de consenso estricto obtenido soporta la monofilia del género, pero las relaciones a nivel de especie están pobremente resueltas, con solo dos grupos de especies como clados monofiléticos.

Palabras clave: Staphylinidae, análisis cladístico, taxonomía, Neotrópico

Introduction

The earliest described species of the genus *Renda* Blackwelder, 1952 (Figs. 2–9) were originally placed in the genera *Sterculia* Laporte, 1835 or *Araeocnemus* Nordmann, 1837, until Sharp (1885) established a separate genus *Plochionocerus* Sharp, 1885 for them; species described since then have been variously included in either Sharp's *Plochionocerus* or *Sterculia*. Blackwelder (1952) noticed that Sharp's genus name was preoccupied by *Plochionocerus* Dejean, 1833 (which was congeneric with *Sterculia* and *Araeocnemus*, and had priority over those names), and proposed the replacement name *Renda* for *Plochionocerus* Sharp.

Asiain *et al.* (2007) studied the phylogeny of *Plochionocerus* sensu Dejean, resurrected the genus *Agrodes* for some of its species, and transferred *P. leprieuri* (Laporte, 1835) to *Renda*. Five and six synapomorphies were presented supporting both *Agrodes* and *Plochionocerus* respectively as monophyletic and four synapomorphies were presented for *Renda*. Their results suggested that *Renda* is the sister taxon of *Agrodes* plus *Plochionocerus*. Also, they showed that there were sufficient synapomorphies to support the monophyly of *Agrodes* and *Plochionocerus*, and it would be interesting to show that this is the case for *Renda* as well, because there is very little taxonomic and phylogenetic knowledge for the 13 known species (Table 1). The taxonomic history of *Renda* is closely associated with that of *Plochionocerus* and *Agrodes*, and was reviewed by Asiain *et al.* (2007). The objectives of this study were to provide a redescription of the genus and its known species (Table 1), describe twenty-one new species, and conduct a phylogenetic analysis in order to test the monophyly of the genus *Renda* and to obtain a hypothesis about the phylogenetic interrelationships of its spe-