

WEST AFRICAN EARTHWORM
GENUS *MILLSONIA* BEDDARD, 1894
(OLIGOCHAETA: ACANTHODRILIDAE, BENHAMIINAE)
REVIEWED AND SEPARATION OF A NEW GENUS

CSUZSÉL CS.

Systematic Zoology Research Group of the Hungarian Academy of Sciences and
Hungarian Natural History Museum H-1088 Budapest Baross u. 13, Hungary
e-mail: csuzsel@nhmus.hu

A detailed morphological revision of the species belonging to the genus *Millsonia* BEDDARD, 1894 is presented, and a new species *Millsonia bosana* sp. n. is described. To accommodate the species possessing enteronephric excretory system a new genus *Reginaldia* gen. nov. is erected. The new genus is divided into two subgenera according to the number of oesophageal gizzards: *Reginaldia* (*Reginaldia*) subgen. nov. for the species possessing two gizzards in v and vi, and *Reginaldia* (*Periogaster*) subgen. nov. for the species provided with only one gizzard in vi.

Key words: earthworms, Oligochaeta, Acanthodrilidae, Benhamiinae, *Millsonia*, new species and genus, *Reginaldia* (*Reginaldia*), *Reginaldia* (*Periogaster*), Africa

INTRODUCTION

The earthworm genus *Millsonia* was erected by BEDDARD (1894) for two peculiar earthworm species *Millsonia nigra* BEDDARD, 1894 and *Millsonia rubens* BEDDARD, 1894, which possessed two gizzards, three pairs of calciferous glands and paired intestinal caeca. Later MICHAELSEN (1900) merged all the meronephric genera possessing two gizzards and three pairs of calciferous glands in the region of segments 15–17 to *Dichogaster* BEDDARD, 1888 creating thus a highly heterogeneous genus containing some 70 species. During the next several decades the number of the described species more than doubled and the genus *Dichogaster* became an untenable catch-all taxon. It was OMODEO (1955, 1958) who first tried to separate homogenous groups from *Dichogaster* resurrecting the genus *Benhamia* MICHAELSEN, 1889 and *Millsonia* BEDDARD, 1894.

The genus *Millsonia* according to OMODEO (1955, 1958) differed from *Dichogaster* by presence of paired intestinal caeca and lacking of penial setae. Further common characteristics of these species were the large body size (150–450 mm) and spermathecal diverticula embedded into the wall of the duct.

Later, a number of new species, including small and penial setae bearing ones, were described (SIMS 1965a, OMODEO 1973), which clearly increased the

Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta

Arturo Cuomo



Revision Of The Western African Earthworm Genus *Millsonia* Octochaetidae Oligochaeta:

Revision of the Western African Earthworm Genus *Millsonia* (Octochaetidae: Oligochaeta) Reginald William Sims, 1986 **Bulletin of the British Museum (Natural History).** ,1977 Revision of the Western African Earthworm Genus *Millsonia* (Octochaetidae Oligochaeta) R.W. Sims, 1986-10-01 **Revision of the Western African Earthworm Genus *Millsonia* (Octochaetidae: Oligochaeta)** A. Warren, Bernice Brewster, British Museum (Natural History), Gordon L. J. Paterson, P. B. Mordan, Reginald William Sims, 1985 *Earthworms in Agriculture* Jerry Rafats, 1990 **Quick Bibliography Series** ,1976 *Miscellanea Zoologica Hungarica* ,1997 **Bibliography of Agriculture** ,1987 **Whitaker's Books in Print** ,1998 **Revue suisse de zoologie** ,1994 **Annalen des Naturhistorischen Museums in Wien** ,1995 Referativnyi zhurnal ,1987 **British Books in Print** ,1979 Revision of the Eastern African Earthworm Genus *Polytoreutus* (Eudrilidae) Reginald William Sims, 1982 **A New Genus of West African Earthworm with Notes on the Identity of *Iridodrilus* Beddard, 1897 (Eudrilidae)** R. W. Sims, 1985 New Genera and New Species of Earthworms (Oligochaeta: Octochaetidae) from Western Ghats, South India Jatinder Mohan Julka, Eric Blanchart, Lydie Chapuis-Lardy, 2004 **A Numerical Revision of the Earthworm Genus *Pheretima* Auct** Reginald William Sims, 1972 *A Numerical Revision of the Earthworm Genus *Pheretima* Auct. (Megascolecidae: Oligochaeta) with the Recognition of New Genera and an Appendix on the Earthworms Collected by the Royal Society North Borneo Expedition* Reginald William Sims, Edward Glynn Easton, 1972 *A Revision of the Earthworm Genus *Digaster* (Megascolecidae, Oligochaeta)* B. G. M. Jamieson, 1963 *Earthworms and Their Allies* Frank E. Beddard, 2020-08-01 Reproduction of the original Earthworms and Their Allies by Frank E Beddard

The Enigmatic Realm of **Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

<https://pinsupreme.com/results/scholarship/default.aspx/Simon%20The%20Swan%20A%20Sequel%20To%20The%20Lord%20Of%20The%20Rushie%20River.pdf>

Table of Contents Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta

1. Understanding the eBook Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - The Rise of Digital Reading Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Advantages of eBooks Over Traditional Books
2. Identifying Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta

- User-Friendly Interface
- 4. Exploring eBook Recommendations from Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Personalized Recommendations
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta User Reviews and Ratings
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta and Bestseller Lists
- 5. Accessing Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Free and Paid eBooks
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Public Domain eBooks
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta eBook Subscription Services
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Budget-Friendly Options
- 6. Navigating Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta eBook Formats
 - ePub, PDF, MOBI, and More
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Compatibility with Devices
 - Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Highlighting and Note-Taking Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Interactive Elements Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
- 8. Staying Engaged with Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta

9. Balancing eBooks and Physical Books Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Setting Reading Goals Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Fact-Checking eBook Content of Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Introduction

Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta : This website

hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Offers a diverse range of free eBooks across various genres. Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta, especially related to Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta books or magazines might include. Look for these in online stores or libraries. Remember that while Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta full book , it can give you a taste of the authors writing style. Subscription Services Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta eBooks, including some popular titles.

FAQs About Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta Books

1. Where can I buy Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta books?
Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
10. Can I read Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta :

simon the swan a sequel to the lord of the rushie river

simon boccanegra

sikh immigrant students

signs of the artist signatures & self ex

~~signal processing using optics fundamentals devices architectures and applications~~

signals and systems international edition

silent sea harlequin intrigue ser.

simon silber the works for solo piano

signers of the declaration of independence

signedcrobtime science fiction anthology vol ii

~~simple & direct a rhetoric for writers~~

silver lady romance

significant other

signed memories live love work play family friends

silver dome

Revision Of The Western African Earthworm Genus Millsonia Octochaetidae Oligochaeta :

2005 XJ8L Suspension Diagram Sep 10, 2013 — XJ XJ6 / XJ8 / XJR (X350 & X358) - 2005 XJ8L Suspension Diagram - Is there a diagram that shows all associated front and rear suspension ... Jaguar XJ8 Air Suspension Compressor Line - C2C9925 Buy Jaguar XJ8 Air Suspension Compressor Line. Ride control components. Tube, Valve, Connector - OEM Jaguar Part # C2C9925. Jaguar XJ8 Active Suspension Control Module - C2C37299 Buy Jaguar XJ8 Active Suspension Control Module. Ride control components; rear suspension - OEM Jaguar Part # C2C37299 (C2C1922, C2C22388, C2C22604, C2C24172).

XJ204-06 Air Suspension System Diagnostics.pdf Issue: This Technical Bulletin has been issued to aid in the diagnosis of air suspension system faults. Action: The following Service Instruction will assist in ... 2004-2009 Jaguar XJ8 4 Wheel Air Suspension ... Strutmasters 2004-2009 Jaguar XJ8 Four Wheel Air Strut To Coil Over Strut Conversion Kit is the perfect solution to your air suspension problems. Designed to be ... 2004 jaguar xj8. 2 new front air struts. Inflate but after Mar 15, 2022 — 2 new front air struts. Inflate but after 30 minutes of driving, air suspension fault light comes on and air goes out/ car dips front/grinds. 2004 Jaguar XJ - Air Suspension Fault Jun 10, 2021 — The suspension struts are well know for leaking at

the top seal after a few years. This will lead to the car dropping down overnight. The ASM ... Why Your Jaguar XJ8 Suspension is Failing, and ... Oct 21, 2018 — Another major problem is that air suspensions are made of moving, rather than static parts. Moving parts are guaranteed to wear down over time ... The Ruby Knight (Book Two of the Elenium): David Eddings The Elenium series, which began in Diamond Throne, continues against a background of magic and adventure. Ehlana, Queen of Elenia, had been poisoned. The Ruby Knight (The Elenium, #2) by David Eddings The Ruby Knight is the second book in the Elenium and follows Sparhawk on the quest to obtain the magical artefact known as the Bhelliom in order to save ... The Ruby Knight (Book Two of The Elenium): Eddings, David Sparhawk, Pandion Knight and Queen's Champion, returns home to find young Queen Ehlana in terrible jeopardy, and soon embarks on a quest to find the one ... The Elenium Book Series - ThriftBooks by David Eddings includes books The Diamond Throne, The Ruby Knight, The Sapphire Rose, and several more. See the complete The Elenium series book list in ... The Ruby Knight (Book Two Of The Elenium) The Ruby Knight (Book Two Of The Elenium). By: David Eddings. Price: \$9.95. Quantity: 1 available. THE RUBY KNIGHT Book Two Of The Elenium THE RUBY KNIGHT Book Two Of The Elenium. New York: Ballantine Books / Del Rey, 1990. First Edition; First Printing. Hardcover. Item #50179. ISBN: 0345370430 The Elenium - Wikipedia The Elenium is a series of fantasy novels by American writer David Eddings. The series consists of three volumes: The Diamond Throne, The Ruby Knight, ... The Ruby Knight. Book Two of The Elenium. - AbeBooks AbeBooks.com: The Ruby Knight. Book Two of The Elenium.: ISBN 0-345-37043-0 Black boards, black cloth spine with red lettering, 406 pages, clean, tight, ... The Ruby Knight: Book Two of The Elenium | David Eddings The Ruby Knight: Book Two of The Elenium. New York: A Del Rey Book Ballantine Books, 1991. First Edition. Hardcover. Item #10097. ISBN: 0345370430 The Ruby Knight (Book Two of the Elenium) - Moon Dragon The Elenium series, which began in Diamond Throne, continues against a background of magic and adventure. Ehlana, Queen of Elenia, had been poisoned. Make Money with Amazon Make money with Amazon. Sell your products to hundreds of millions of Amazon customers. No per-item listing fees. 7 Ways to Make Money on Amazon + Tips and Tools Mar 3, 2023 — 7 ways to make money on Amazon · 1. Choose a product type or specialize in a niche · 2. Sell handcrafted items · 3. Build your own brand · 4. How to Make Money on Amazon: 16 Proven Methods in 2024 Dec 15, 2023 — 1. Sell your own private label products on Amazon. The best way to make money on Amazon in 2024 is still through private label sales using ... How to Make Money on Amazon Oct 18, 2023 — Amazon offers good ways to make side money. Try selling stuff, recommending products or a gig work option. 18 Practical Ways to Make Money on Amazon in 2024 Dec 4, 2023 — There are four main ways to make money on Amazon: selling items, taking support opportunities, being a partner or influencer, or working for ... How to Make Money on Amazon (By Selling & Not) in 2023 With a variety of different positions and sales opportunities, it is realistic to make money online with Amazon. You can sell your own products as a wholesaler ... How to Make Money as an Amazon Affiliate Sep 8, 2022 — How to become an Amazon affiliate · Step 1: Sign up to become an Amazon Associate · Step

2: Add your website or social channels · Step 3: Create ... Amazon Affiliate Program: How to Become an ... Dec 14, 2023 — You can earn, on average, from \$100 to \$20,000 from the Amazon Affiliate program, depending on how many referrals you generate for Amazon. The ... 15 Practical Ways to Make Money on Amazon Make money by selling on Amazon FBA. Sell your own private label products on Amazon. Sell wholesale goods on Amazon. Affiliate Marketing. Publish own books.