Annelida - Oligochaeta

Patrick Martin

Royal Belgian Institute of Natural Sciences (Belgium)
General background

• Definition
  • Segmented worms
  • Bilateral symmetry
  • Setae / Chaetae
  • Clitellum
  • Hermaphrodites
  • Direct development
  • Gonadal segments in small number

• Biology
  • Sediment dwellers
  • Vegetation
  • Predators *(Haplotaxis)*
  • Commensal *(Chaetogaster)*
  • Reproduction
    • sexual
    • asexual (paratomy, architomy)
    • parthenogenesis
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Taxonomic information

- ± 5000 valid described species
- 2/3 terrestrial
  - « megadriles »: Crassiclitellata
  - Terrimegadrili (10 families)
  - Aquamegadrili (4 families)
- 1/3 aquatic
  - “microdriles”: paraphyletic assemblage (13 families)
  - 1700 species
    - 600 marine
    - 1100 freshwater
    - +/- 100 stygobiotic
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Weigert et al., 2014 Molecular Biology and Evolution 31(6): 1391-1401
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Brussels, 28-29-30 September

Checklist

Status

- **FADA:**
  - 20 families
  - 193 genera
  - >1,100 spp.

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<th>Freshwater Animal Diversity Assessment</th>
<th>Principal editor</th>
<th>Authorization to publish</th>
<th>Database Status</th>
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<td>Annelida-Hirudinea</td>
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<td>Annelida-Oligochaeta</td>
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<td>Ilse Bartisch</td>
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<td>Alexey Koby</td>
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</table>
Checklist

Status

- RAMS:
  - 3 families
  - 7 genera
  - 25 spp.
### Checklist

#### Status

- **WoRMS:**
  - 8 families?
  - >130 genera?
  - 902 spp.?
Expectations for the workshop

- Issues that could be solved during the meeting
  - Correct citations for publication (credits to the editor, date referring to the last modification validated by the editor – “historic stamp”)
### WoRMS taxon details

**Enchytraeida**

AphiaID: 468017

<table>
<thead>
<tr>
<th>Classification</th>
<th>Biota &gt; Animalia (Kingdom) &gt; Annelida (Phylum) &gt; Clitellata (Class) &gt; Oligochaeta (Subclass) &gt; Enchytraeida (Order)</th>
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<tr>
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<tr>
<td>Rank</td>
<td>Order</td>
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<tr>
<td>Parent</td>
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<td>Source</td>
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<td>Direct child taxa (3)</td>
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<tr>
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[Taxonomic tree] [List Species] [Occurrence map] [Google] [Google scholar] [Google images]


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  • Correct citation of the sources
Subclass Oligochaeta (902)

- Order Capilloventrida (2)
- Order Crassiclitellata (3)
- Order Enchytraeida (270)
- Order Haplotaxida (623)
  - Suborder Tubificina (623)
    - Family Naididae Ehrenberg, 1828 accepted as Naidinae Ehrenberg, 1828
    - Family Phreodrilidae Beddard, 1891 (3)
    - Family Tubificidae Vejdosky, 1884 (620)
- Order Lumbriculida (4)
  - Family Lumbriculidae Vejdosky, 1884 (4)
    - Genus Lumbriculus Grube, 1844 (1)
      - Species Lumbriculus variegatus (Müller, 1774)
    - Genus Saenuris Hoffmeister, 1842 accepted as Lumbriculus Grube, 1844
    - Genus Stylodrilus Claparède, 1862 (2)
      - Species Stylodrilus cernosvitovi (Hrabe, 1950)
      - Species Stylodrilus parvus (Hrabe & Cernosvitov, 1927)
    - Genus Trichodrilus Claparède, 1862 (1)
      - Species Trichodrilus pauper Finogenova, 1973
**Trichodrilus pauper** Finogenova, 1973

AphiaID: 476117

**Classification:** Biota > Animalia (Kingdom) > Annelida (Phylum) > Clitellata (Class) > Oligochaeta (Subclass)

**Status:** accepted

**Rank:** Species

**Parent:** *Trichodrilus* Claparède, 1862

**Orig. name:** *Trichodrilus paupper* Finogenova, 1973

**Source:** Not documented

**Link:** To Encyclopedia of Life

**LSID:** urn:lsid:marinespecies.org:taxname:476117

**Taxonomic Edit history:**

Date: 2010-05-11 08:20:37Z  
created by Timm, Tarmo
Expectations for the workshop

• Issues that could be solved during the meeting
  • Correct citations for publication (credits to the editor, date referring to the last modification validated by the editor – “historic stamp”)
  • Correct citation of the sources
  • How to combine separate excel sheets for each biogeographical region into a single excel sheet ready for importation into FADA
• Expected perspectives (new tools, publication...)
  • A simple web-based interface for adding, editing and updating data in FADA
  • Publication of checklists for archival purposes (electronic journal???).