

*The Taxonomicon*

*Systema Naturae 2000*

Classification of  
**Phylum *Onychophora***  
(invertebrates)  
down to Family

Compiled by Drs. S.J. Brands  
Universal Taxonomic Services

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# Systema Naturae 2000

## - Phylum Onychophora -

[Kingdom *Animalia* - invertebrates]

Phylum *Onychophora* Grube, 1853 - velvet worms

- 1 [stem] Class †*Xenusia* Dzik & Krumbiegel, 1989 - xenusians
  - 1 Order †*Xenusiida*\* Dzik & Krumbiegel, 1989
    - 1.1 Family †*Xenusiidae*\* Dzik & Krumbiegel, 1989
    - 1.2 Genus †*Diania* Liu, Steiner, Dunlop, Keupp, Shu, Ou, Han, Zhang & Zhang, 2011
    - 2.1 Family †*Paucipodiidae* Hou, Ma, Zhao & Bergström, 2004
      - 2.2.1 Family †*Eoconchariidae* Hou & Shu, 1987
        - 2.2.2.1 Family †*Cardiodictyidae* Hou & Bergström, 1995
        - 2.2.2.2 Family †*Hallucigeniidae* Conway Morris, 1977 [paraphyletic]
        - 2.2.2.2.n Family †*Luolishaniidae* Hou & Bergström, 1995
  - 2.1 [plesion] Genus †*Orstenotubulus* Maas, Mayer, Kristensen & Waloszek, 2007
  - 2.2.1 [plesion] Genus †*Antennacanthopodia* Ou & Shu, 2011
- 2.2.2 Class *Udeonychophora* Poinar, 2000
  - 1 Order †*Ontonychophora* Poinar, 2000
    - 1 Superfamily †*Helenodoroidea* Poinar, 2000
      - 1 Family †*Helenodoridae* Poinar, 2000
    - 2 Superfamily †*Tertiapatoidea* Poinar, 2000
      - 1 Family? †*Succinipatopsidae* Poinar, 2000
      - 2 Family? †*Tertiapatidae*\* Poinar, 2000
  - 2 Order *Euonychophora* Hutchinson, 1930
    - 1 Family *Peripatidae* Evans, 1901
    - 2 Family *Peripatopsidae* Bouvier, 1907

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<<http://taxonomicon.taxonomy.nl/TaxonTree.aspx?src=0&id=15765>>

### Sources

- Dzik, J.**, 2011. The xenusian-to-anomalocaridid transition within the lobopodians. *Boll. Soc. Paleont. Ital.* **50** (1), 1 Jul 2011: 65-74.
- Grimaldi, D. & Engel, M.S.**, 2005. *Evolution of the Insects*. Cambridge University Press: [i]-xv, 1-755.
- Hou, X.-G., Ma, X.-Y., Zhao, J. & Bergström, J.**, 2004. The lobopodian *Paucipodia inermis* from the Lower Cambrian Chengjiang fauna, Yunnan, China. *Lethaia* **37** (3), 15 Sep 2004: 235-244.
- Howard, R.J., Hou, X., Edgecombe, G.D., Salge, T., Shi, X. & Ma, X.**, 2020. A Tube-Dwelling Early Cambrian Lobopodian. *Curr. Biol.* **30**, 20 Apr 2020: 1529-1536.
- Liu, J., Shu, D., Han, J., Zhang, Z. & Zhang, X.**, 2006. A large xenusiid lobopod with complex appendages from the Lower Cambrian Chengjiang Lagerstätte. *Acta Palaeontol. Pol.* **51** (2): 215-222.
- Liu, J., Shu, D., Han, J., Zhang, Z. & Zhang, X.**, 2008. The lobopod *Onychodictyon* from the Lower Cambrian Chengjiang Lagerstätte revisited. *Acta Palaeontol. Pol.* **53** (2): 285-292.
- Murdock, D.J.E., Gabbott, S.E. & Purnell, M.A.**, 2016. The impact of taphonomic data on phylogenetic resolution: *Helenodora inopinata* (Carboniferous, Mazon Creek Lagerstätte) and the onychophoran stem lineage. *BMC Evol. Biol.* **16** (art. 19), 22 Jan 2016: [1]-14.
- Ou, Q., Liu, J., Shu, D., Han, J., Zhang, Z., Wan, X. & Lei, Q.**, 2011. A Rare Onychophoran-Like Lobopodian from the Lower Cambrian Chengjiang Lagerstätte, Southwestern China, and its Phylogenetic Implications. *J. Paleont.* **85** (3): 587-594.
- Poinar, G., Jr.**, 2000. Fossil onychophorans from Dominican and Baltic amber: *Tertiapatus dominicanus* n.g., n.sp. (Tertiapatidae n.fam.) and *Succinipatopsis balticus* n.g., n.sp. (Succinipatopsidae n.fam.) with a proposed classification of the subphylum Onychophora. *Invert. Biol.* **119** (1), 7 Mar 2000: 104-109.

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