**Supp. File 1.** List of valid species of the genus *Polymerurus* Remane, 1927 according to different versions in the literature. Abbreviations: Si = *Species inquirenda*; Nn = *Nomen nudum*. Symbols: X = present; – = absent. References:1 = Balsamo *et al*. (2009); 2 = Kieneke & Schmidt-Rhaesa (2015); 3 = WoRMS (2019); 4 = Todaro (2019). <https://doi.org/10.5852/ejt.2021.746.1319.4025>

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| --- | --- | --- | --- | --- |
| **Species name** | **1** | **2** | **3** | **4** |
| *Polymerurus andreae* Hochberg, 2005 | X | X | X | X |
| *Polymerurus biroi* (Daday, 1901) | X | X | X | X |
| *Polymerurus callosus* Brunson, 1950 | X | X | X | X |
| *Polymerurus corumbensis* Kisielewski, 1991 | X | X | X | X |
| *Polymerurus elongatus* (Daday, 1905) | X | X | X | X |
| *Polymerurus entzii* (Daday, 1882) | X | X | X | X |
| *Polymerurus hirsutus* Remane, 1929  | – | – | Nn | – |
| *Polymerurus hystrix* (Daday, 1910) | X | X | X | X |
| *Polymerurus longicaudatus* (Tatem, 1867) | X | X | X | X |
| *Polymerurus macracanthus* (Lauterborn, 1894)  | Si | X | Si | Si |
| *Polymerurus macrurus* (Collin, 1897)  | – | X | Si | – |
| *Polymerurus magnus* Visvesvara, 1963 | X | X | X | X |
| *Polymerurus nodicaudus* (Voigt, 1901) | X | X | X | X |
| *Polymerurus nodifurca* (Marcolongo, 1910) | X | X | X | X |
| *Polymerurus paraelongatus* Grosso & Drahg, 1986 | X | X | X | X |
| *Polymerurus rhomboides* (Stokes, 1887) | X | X | X | X |
| *Polymerurus ringueleti* Grosso, 1975 | X | X | – | – |
| *Polymerurus serraticaudus* (Voigt, 1901) | X | X | X | X |
| *Polymerurus squammofurcatus* (Preobrajenskaja, 1926) | – | X | – | X |
| *Polymerurus squammofurcatus squammofurcatus* (Preobrajenskaja, 1926) | X | –  | X | – |
| *Polymerurus squammofurcatus matogrossensis* Kisielewski, 1991 | X | – | X | – |