

Appendix 1. Earthworms of Turkey and its Neighbouring Countries.

| Species | Turkey | Greece mainland | Bulgaria | Crete | Cyprus | Syria | Iran | Armenia | Azerbaijan | Georgia | Distribution type |
|---|--------|-----------------|----------|-------|--------|-------|------|---------|------------|---------|-----------------------|
| Family: LUMBRICIDAE Rafinesque-Schmaltz, 1815 | | | | | | | | | | | |
| <i>Allolobophora bulgarica</i> Černosvitov, 1934 | | | * | | | | | | | | Balkan endemicism |
| <i>Allolobophora s.l. brunnecephala</i> Kavadze, 1985 | * | | | | | | | * | * | | Caucaso-Anatolian |
| <i>Allolobophora chlorotica</i> (Savigny, 1826) | * | * | * | * | | | | | * | * | Peregrine |
| <i>Allolobophora dofleini</i> (Ude, 1922) | | * | | | | | | | | | Balkan endemicism |
| <i>Allolobophora immaculata</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Allolobophora kosowensis</i> Karaman, 1968 | | * | | | | | | | | | Balkan endemicism |
| <i>Allolobophora kintrishiana</i> Kavadze 1987 | | | | | | | | | | * | Caucasian endemicism |
| <i>Allolobophora leoni</i> Michaelsen, 1891 | * | | * | | | | | | | * | Trans-Aegean |
| <i>Allolobophora mehadiensis</i> (Rosa, 1895) | | | * | | | | | | | | Balkan endemicism |
| <i>Allolobophora robusta robusta</i> (Rosa, 1895) | | | * | | | | | | | | Balkan endemicism |
| <i>Allolobophora tuleshkovi</i> (Černosvitov, 1934) | | | * | | | | | | | | Balkan endemicism |
| <i>Aporrectodea caliginosa caliginosa</i> (Savigny, 1826) | * | * | * | * | * | * | * | * | - | * | Peregrine |
| <i>Aporrectodea caliginosa trapezoides</i> (Dugès, 1828) | * | * | * | * | * | * | * | * | * | * | Peregrine |
| <i>Aporrectodea dubiosa</i> (Örley, 1881) | * | | * | | | | | | | * | Trans-Aegean |
| <i>Aporrectodea georgii</i> (Michaelsen, 1890) | | * | * | * | | * | | | | | Atlanto-Mediterranean |
| <i>Aporrectodea handlirschi</i> (Rosa, 1897) | * | * | * | | | | | | | * | Trans-Aegean |
| <i>Aporrectodea handlirschi mahnerti</i> (Zicsi, 1973) | * | | | | | | | | | | Anatolian endemicism |
| <i>Aporrectodea jassyensis</i> (Michaelsen, 1891) | * | * | * | * | | | * | * | * | * | Trans-Aegean |
| <i>Aporrectodea longa</i> (Ude, 1885) | | * | * | | | | * | | | | Peregrine |
| <i>Aporrectodea rosea</i> (Savigny, 1826) | * | * | * | * | * | | * | * | * | * | Peregrine |
| <i>Bimastos eiseni</i> (Levinsen, 1884) | | * | * | | | | * | | | | Peregrine |
| <i>Bimastos parvus</i> (Eisen 1874) | | | | | | | * | | | | Peregrine |
| <i>Bimastos rubidus</i> (Savigny, 1826) | * | * | * | | * | | * | * | * | * | Peregrine |
| <i>Cernosvitovia biserialis</i> (Černosvitov, 1937) | | | * | | | | | | | | Balkan endemicism |
| <i>Cernosvitovia dobrogeana</i> (Pop, 1938) | | | * | | | | | | | | Balkan endemicism |
| <i>Cernosvitovia muntieniana</i> Zicsi & Pop, 1991 | | | * | | | | | | | | Balkan endemicism |
| <i>Cernosvitovia rebeli</i> (Rosa, 1897) | | * | * | | | | | | | | Moesian |
| <i>Cernosvitovia schweigeri</i> (Zicsi, 1973) | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena alpina alpina</i> (Rosa, 1884) | | * | * | * | | | | * | * | * | ?Balkan-Alpine |

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|--|---|---|---|---|---|---|---|---|---|---|-----------------------|
| <i>Dendrobaena alpina armeniaca</i> (Rosa, 1893) | * | | | | | | | * | * | | Caucaso-Anatolian |
| <i>Dendrobaena alpina diplotritheca</i> Kavadze, 1972 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena attemsi attemsi</i> (Michaelsen, 1902) | * | * | * | | | | | * | * | * | Trans-Aegean |
| <i>Dendrobaena attemsi decipiens</i> (Michaelsen, 1910) | * | | | | | | | | | * | Caucaso-Anatolian |
| <i>Dendrobaena balcanica</i> (Černosvitov, 1937) | | * | * | | | | | | | | Balkan endemism |
| <i>Dendrobaena bokakotorensis</i> Šapkarev, 1975 | | * | | | | | | | | | Balkan endemism |
| <i>Dendrobaena bruna</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemism |
| <i>Dendrobaena byblica byblica</i> (Rosa, 1893) | * | * | * | * | * | * | * | | | * | Circum-Mediterranean |
| <i>Dendrobaena byblica arsiatica</i> Kavadze 1985 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena byblica olympiaca</i> (Michaelsen, 1902) | | * | | * | | | | | | | Balkan endemism |
| <i>Dendrobaena cevdeti</i> Szederjesi, Pavlicek, Coşkun & Csuzdi, 2014 | * | | | | | | | | | | Anatolian endemism |
| <i>Dendrobaena cognettii</i> (Michaelsen, 1903) | * | * | | | | | | | | | Atlanto-Mediterranean |
| <i>Dendrobaena epirotica</i> Zicsi & Michalis, 1993 | | * | | | | | | | | | Balkan endemism |
| <i>Dendrobaena faucium</i> (Michaelsen, 1910) | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena fridericae fridericae</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemism |
| <i>Dendrobaena fridericae uludagi</i> Omodeo & Rota, 1991 | * | | | | | | | | | | Anatolian endemism |
| <i>Dendrobaena jaloniensis</i> Kavadze, 1985 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena hauseri</i> Zicsi, 1973 | * | | | | | | | | | | Levant-Anatolian |
| <i>Dendrobaena hortensis</i> (Michaelsen, 1890) | * | * | * | * | | | * | * | * | * | Peregrine |
| <i>Dendrobaena hrabei</i> (Černosvitov, 1934) | | * | * | | | | | | | | Balkan endemism |
| <i>Dendrobaena imeretiana</i> Kavadze, 1992 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena kelassuriensis</i> Kavadze, 1985 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena kervillei</i> (Michaelsen, 1910) | | | | | | * | | | | | Levantine endemism |
| <i>Dendrobaena kurashvili</i> Kavadze 1971 | * | | | | | | | * | | * | Caucaso-Anatolian |
| <i>Dendrobaena loebli</i> (Zicsi, 1985) | * | * | | | | | | | | | Balkan-Anatolian |
| <i>Dendrobaena mahnerti</i> Zicsi, 1974 | | * | | | | | | | | | Balkan endemism |
| <i>Dendrobaena mahunkai</i> Csuzdi, Pavlíček & Mısırhoğlu 2007 | * | | | | | | | | | | Anatolian endemism |
| <i>Dendrobaena mamişsonica</i> Kavadze, 1984 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena michalisi</i> Karaman, 1972 | | * | | | | | | | | | Balkan endemism |
| <i>Dendrobaena montana</i> (Michaelsen, 1910) | * | | | | | | | * | | | Caucaso-Anatolian |
| <i>Dendrobaena nassonovi adjarica</i> Kavadze 1973 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena nassonovi nassonovi</i> Kulagin, 1889 | | | | | | | | | | * | Caucasian endemism |
| <i>Dendrobaena nivalis</i> Omodeo & Rota 1989 | * | | | | | | | | | | Anatolian endemism |

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| <i>Dendrobaena octaedra</i> (Savigny, 1826) | | * | * | | | | * | | | * | Peregrine |
| <i>Dendrobaena olympica</i> (Černosvitov, 1938) | | * | | | | | | | | | Balkan endemicism |
| <i>Dendrobaena omodeoi</i> Csuzdi, Pavliček & Mısırlıoğlu, 2007 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena orientalis orientalis</i> Černosvitov, 1940 | * | | | | | | * | * | * | | Levant-Anatolian |
| <i>Dendrobaena orientalioides</i> Zicsi, 1985 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena pantaleonis</i> (Chinaglia, 1913) | | * | | * | * | | | | | | Alpine -East-Mediterranean |
| <i>Dendrobaena pantaleonis eutypica</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena parabyblica</i> Perel, 1972 | | | | | | | | * | | | Levantine endemicism |
| <i>Dendrobaena pentheri</i> (Rosa, 1905) | * | * | | | * | | * | * | * | * | Caucasian-East-Mediterranean |
| <i>Dendrobaena persimilis</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena perula</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena pindonensis</i> Zicsi & Michalis, 1993 | | * | | | | | | | | | Balkan endemicism |
| <i>Dendrobaena platyura depressa</i> (Fitzinger, 1833) | | | | * | | | | | | | Central European |
| <i>Dendrobaena proandra</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena resslii</i> Zicsi, 1973 | * | | | | | | | | | | Anatolian endemicism |
| <i>Dendrobaena retrosella</i> Szederjesi & Csuzdi, 2012 | | * | | | | | | | | | Balkan endemicism |
| <i>Dendrobaena rhodopensis</i> (Černosvitov, 1937) | | * | * | | | | | | | | Balkan endemicism |
| <i>Dendrobaena samarigera</i> (Rosa, 1893) | ?* | | | | | | | | | | ? Levant-Anatolian |
| <i>Dendrobaena schmidti marinae</i> Kavadze, 1985 | * | | | | | | | | | * | Caucaso-Anatolian |
| <i>Dendrobaena schmidti surbiensis</i> (Michaelsen 1910) | | | | | | | | * | * | * | Caucasian endemicism |
| <i>Dendrobaena schmidti tellermanica</i> Perel, 1966 | * | | | | | | | * | * | * | Caucaso-Anatolian |
| <i>Dendrobaena semitica</i> (Rosa, 1893) | * | | | | * | * | * | | | | Levant-Anatolian |
| <i>Dendrobaena swanetiana</i> Kavadze, 1992 | | | | | | | | | | * | Caucasian endemicism |
| <i>Dendrobaena szalokii</i> Szederjesi, Pavlicek, Coşkun & Csuzdi, 2014 | * | | | | | | | | | | Levant-Anatolian |
| <i>Dendrobaena veneta</i> (Rosa, 1884) | * | * | * | * | * | * | * | * | * | * | Peregrine |
| <i>Dendrobaena verihemiandra</i> Kavadze, 1989 | | | | | | | | | | * | Caucasian endemicism |
| <i>Dendrodriloides ganjiensis</i> (Kavadze 1985) | | | | | | | | * | * | | Caucasian endemicism |
| <i>Dendrodriloides grandis grandis</i> (Michaelsen, 1907) | * | | | | | | | * | * | ‡ | Caucaso-Anatolian |
| <i>Dendrodriloides grandis perelae</i> (Kavadze 1973) | | | | | | | | * | | * | Caucasian endemicism |
| <i>Dendrodriloides hydrophilicus</i> (Kavadze, 1979) | * | | | | | | | | | * | Caucaso-Anatolian |
| <i>Dendrodriloides polysegmenticus</i> (Kavadze, 1973) | * | | | | | | | | | * | Caucaso-Anatolian |
| <i>Dendrodriloides supsaiensis</i> (Kavadze 1985) | | | | | | | | | | * | Caucasian endemicism |

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| <i>Eisenia andrei</i> Bouché, 1972 | | | * | | | | | * | * | * | Peregrine |
| <i>Eisenia ariadne</i> (Michaelsen, 1928) | | * | | | | | | | | | Balkan endemicism |
| <i>Eisenia colchidica</i> (Perel, 1967) | * | * | | | | | | | | * | Caucasian-East-Mediterranean |
| <i>Eisenia ebneri</i> (Michaelsen, 1914) | | * | | * | | | | | | | Balkan endemicism |
| <i>Eisenia fetida</i> (Savigny, 1826) | * | * | * | * | * | | * | * | * | * | Peregrine |
| <i>Eisenia iverica</i> (Kvavadze, 1973) | | | | | | | | | | * | Caucasian endemicism |
| <i>Eisenia kafaniensis</i> Kvavadze 1985 | | | | | | | | * | * | * | Caucasian endemicism |
| <i>Eisenia kattoulasi</i> Zicsi & Michalis, 1981 | * | * | | | | | | | | | Balkan-Anatolian |
| <i>Eisenia kotschani</i> Szederjesi, Pavliček & Csuzdi 2014 | * | | | | | | | | | | Anatolian endemicism |
| <i>Eisenia lagodechiensis</i> (Michaelsen, 1910) | | | | | | | | * | * | * | Caucasian endemicism |
| <i>Eisenia lucens</i> (Waga, 1857) | | | * | | | | | | | | Central European |
| <i>Eisenia malekiae</i> Szederjesi, Latif & Csuzdi, 2014 | | | | | | | * | | | | Iranian endemicism |
| <i>Eisenia muganiensis</i> (Michaelsen, 1910) | | | | | | | | * | * | | Caucasian endemicism |
| <i>Eisenia omranii</i> Latif, Malek & Csuzdi, 2017 | | | | | | | * | | | | Iranian endemicism |
| <i>Eisenia oreophila</i> Szederjesi & Csuzdi, 2012 | | * | | | | | | | | | Balkan endemicism |
| <i>Eisenia patriciae</i> Szederjesi, Pavliček, Coşkun & Csuzdi, 2014 | * | | | | | | | | | | Anatolian endemicism |
| <i>Eisenia storkani</i> Černosvitov, 1934 | | | * | | | | | | | | Balkan endemicism |
| <i>Eisenia thamarae</i> Kvavadze and Nikolasvili 1983 | | | | | | | | * | * | * | Caucasian endemicism |
| <i>Eiseniella neapolitana</i> (Örley, 1885) | * | * | | | * | * | | | | | Circum-Mediterranean |
| <i>Eiseniella tetraedra</i> (Savigny, 1826) | * | * | * | * | * | * | * | * | * | * | Peregrine |
| <i>Healyella baloghi</i> (Zicsi, 1981) | * | | | | | | | | | | Anatolian endemicism |
| <i>Healyella boluana</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Healyella mariae</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Healyella michaelseni</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Healyella naja</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Healyella schweigeri</i> (Zicsi, 1981) | * | | | | | | | | | | Anatolian endemicism |
| <i>Healyella syriaca</i> (Rosa, 1893) | * | | | | | * | * | | | | Levant-Anatolian |
| <i>Healyella zapparolii</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Helodrilus balcanicus balcanicus</i> (Černosvitov, 1931) | | * | | | | | | | | | Balkan endemicism |

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| <i>Helodrilus cernosvitovianus</i> (Zicsi, 1967) | | * | | | | | | | | | Uncleared type |
| <i>Helodrilus duhlinkae</i> Zicsi & Csuzdi, 1986 | | | * | | | | | | | | Balkan endemicism |
| <i>Helodrilus oculatus</i> (Hoffmeister, 1845) | | | | | | | | | * | | Caucasian endemicism |
| <i>Helodrilus patriarchalis</i> (Rosa, 1893) | * | * | | * | * | * | * | * | * | * | Caucasian-East Mediterranean |
| <i>Helodrilus vagneri</i> Mršić, 1991 | | * | | | | | | | | | Balkan endemicism |
| <i>Lumbricus meliboeus</i> Rosa, 1884 | | | * | | | | | | | | Balkan-Alpine |
| <i>Lumbricus polyphemus</i> (Fitzinger, 1833) | | | * | | | | | | | | Central European |
| <i>Lumbricus rubellus</i> Hoffmeister, 1843 | * | * | * | * | | | | * | * | * | Peregrine |
| <i>Lumbricus terrestris</i> Linnaeus, 1758 | | | * | | | | | | | * | Peregrine |
| <i>Murchieona minuscula</i> (Rosa, 1896) | * | * | * | * | * | | | | | | Circum-Mediterranean |
| <i>Octodrilus complanatus</i> (Dugés, 1828) | * | * | * | * | * | * | | | | * | Circum-Mediterranean |
| <i>Octodrilus croaticus</i> (Rosa, 1895) | | * | | | | | | | | | Illyric |
| <i>Octodrilus transpadanus</i> (Rosa, 1884) | * | * | * | | | | | | * | * | Trans-Aegean |
| <i>Octolasion cyaneum</i> (Savigny, 1826) | * | | | | * | | | | | | Peregrine |
| <i>Octolasion lacteum</i> (Örley, 1881) | * | * | * | | | * | * | * | * | * | Peregrine |
| <i>Perelia galileana</i> Csuzdi & Pavlíček, 2005 | * | | | | | | | | | | Levant-Anatolian |
| <i>Perelia hatayica</i> Csuzdi, Pavlíček & Mısırlıoğlu, 2007 | * | | | | | | | | | | Anatolian endemicism |
| <i>Perelia kaznakovi</i> (Michaelsen, 1910) | | | | | | | * | | * | | Caucasian endemicism |
| <i>Perelia makrisi</i> Szederjesi, Pavlicek & Csuzdi, 2017 | | | | | * | | | | | | Cypriot endemicism |
| <i>Perelia nematogena</i> (Rosa 1903) | | | | | * | | | | | | Balkan-Alpine |
| <i>Perelia persiana</i> (Michaelsen, 1900) | | | | | | | * | | | | Iranian endemicism |
| <i>Perelia phoebea</i> (Cognetti, 1913) | | * | | | * | | | | | | Balkan endemicism |
| <i>Proctodrilus antipai</i> (Michaelsen, 1891) | | * | * | | | | | | | | Central-European |
| <i>Proctodrilus opisthoductus</i> Zicsi, 1985 | | * | * | | | | | | | | Central-European |
| <i>Proctodrilus tuberculatus</i> (Černosvitov, 1935) | * | * | * | | * | | | | | * | Trans-Aegean |
| <i>Spermophorodrilus antiquus</i> (Černosvitov, 1938) | | * | * | | | | | | | | Balkan endemicism |
| <i>Spermophorodrilus simsoni</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Spermophorodrilus vignai</i> Omodeo & Rota, 1989 | * | | | | | | | | | | Anatolian endemicism |
| <i>Trapezonscolex cavazzutii cavazzutii</i> Omodeo, 1988 | * | | | | | | | | | | Anatolian endemicism |
| <i>Trapezonscolex cavazzutii pascuorum</i> Omodeo, 1988 | * | | | | | | | | | | Anatolian endemicism |
| Family: ACANTHODRILIDAE Claus, 1880 | | | | | | | | | | | |
| <i>Dichogaster bolau</i> (Michaelsen, 1891) | | | | | | | * | | | | Peregrine |
| <i>Microscolex dubius</i> (Fletcher, 1887) | * | * | | * | | | * | | | * | Peregrine |
| <i>Microscolex phosphoreus</i> (Duges, 1837) | * | * | | | * | | * | | | * | Peregrine |

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| Family: CRIODRILIDAE Vejdovsky, 1884 | | | | | | | | | | | |
| <i>Criodrilus lacuum</i> Hoffmeister, 1845 | * | * | * | | | * | | | | * | Peregrine |
| Family: MEGASCOLECIDAE Rosa, 1891 | | | | | | | | | | | |
| <i>Amyntas corticis</i> (Kinberg, 1867) | * | * | | | | | * | | | * | Peregrine |
| <i>Amyntas gracilis</i> (Kinberg, 1867) | * | * | | | | | | | | | Peregrine |
| <i>Amyntas morrisi</i> (Beddard, 1892) | * | | | | | | | | | | Peregrine |
| <i>Metaphire californica</i> (Kinberg, 1867) | * | * | | | | | | | | | Peregrine |
| <i>Pontodrilus litoralis</i> (Grube, 1855) | | * | | | | | | | | | Peregrine |
| Family: OCNERODRILIDAE Beddard, 1891 | | | | | | | | | | | |
| <i>Eukerria saltensis</i> (Beddard, 1895) | | * | | | | | | | | | Peregrine |
| <i>Ocnerodrilus occidentalis</i> Eisen, 1878 | | * | | | | | | | | | Peregrine |
| | | | | | | | | | | | |
| Total Species Number | 83 | 66 | 49 | 20 | 21 | 14 | 28 | 31 | 29 | 58 | |

Remarks. *Allolobophora carpathica* Cognetti, 1927 was registered in Bulgaria by Mihailova (1964), but it is a doubtful record for the country. Besides, we did not regard *B. rubidus subrubicundus* as a separate taxon.