

†Family **PALAEOPISTHACANTHIDAE** Kjellesvig-Waering, 1986

VICTOR FET

Jeram (1994a) demonstrated by cladistic analysis that the fossil genus *Palaeopisthacanthus* is a (paraphyletic) sister group to all recent families of scorpions. Palaeopisthacanthidae is the only entirely fossil family of scorpions that is currently included in the superfamily Scorpionoidea. The family includes three genera and four species.

Palaeopisthacanthidae Kjellesvig-Waering, 1986: 232; type genus *Palaeopisthacanthus* Petrunkevitch, 1913.

REFERENCES

Palaeopisthacanthidae: Sissom, 1990a: 144; Jeram, 1994a: 523.

GEOLOGICAL OCCURRENCE: Carboniferous of Europe and North America.

†Genus **COMPSOSCORPIUS** Petrunkevitch, 1949

Compsoscorpium Petrunkevitch, 1949: 149; type species *Compsoscorpium elegans* Petrunkevitch, 1949.

REFERENCES

Compsoscorpium: Francke, 1985: 7; Kjellesvig-Waering, 1986: 236; Sissom, 1990a: 144; Jeram, 1994a: 530; Jeram, 1998: 25.

GEOLOGICAL OCCURRENCE: Upper Carboniferous of England.

†*Compsoscorpium elegans* Petrunkevitch, 1949

Compsoscorpium elegans Petrunkevitch, 1949: 149–150, fig. 152–154, 183–185.

HOLOTYPE: ♀ (BMNH I.7883), Upper Carboniferous, Upper Coal Measures, Coseley, Staffordshire, England, UK.

SYNONYMS

Typhlopisthacanthus anglicus Petrunkevitch, 1949: 145, fig. 143, 182 (synonymized by Kjellesvig-Waering, 1986: 236).

HOLOTYPE: ♀ (BMNH 31261), Upper Carboniferous, Upper Coal Measures, Coseley, Staffordshire, England, UK.

Compsoscorpium elongatus Petrunkevitch, 1949: 150–151, fig. 147–150, 186–188 (synonymized by Kjellesvig-Waering, 1986: 236).

HOLOTYPE: ♂ (BMNH 17883), Upper Carboniferous, Upper Coal Measures, Coseley, Staffordshire, England, UK.

REFERENCES

Anthracoscorpium buthiformis (nec Pocock, 1911; MIS): Pocock, 1911 (part): 26, fig. 7.

Typhlopisthacanthus anglicus: Petrunkevitch, 1949: 145, fig. 143, 182; Petrunkevitch, 1953: 34; Selden, 1985: 6.

Compsoscorpium elegans: Petrunkevitch, 1953: 32–33; Petrunkevitch, 1955: P75, fig. 44(1); Dubinin, 1962: 431, fig. 1235, 1253; Selden, 1985: 6; Kjellesvig-Waering, 1986: 236–239, text-fig. 105–107; Selden, 1993: 303; Jeram, 1994a: 530–536, pl. 1; pl. 2, fig. 1–7, 10–13; pl. 3, fig. 1–10; pl. 6, fig. 4–7; pl. 7, fig. 1,5; text-fig. 3, 4A–C, E–G, 5A–J.

Compsoscorpium elongatus: Petrunkevitch, 1953: 33; Selden, 1985: 6.

GEOLOGICAL OCCURRENCE: Upper Carboniferous of England.

NOTES: Kjellesvig-Waering (1986: 236) wrote: “as first reviewer, I hereby select the genus and species of *Compsoscorpium elegans* to be the correct taxon to use for this scorpion”.

†Genus *CRYPTOSCORPIUS* Jeram, 1994

Cryptoscorpium Jeram, 1994: 536; type species *Cryptoscorpium americanus* Jeram, 1994.

REFERENCES

Cryptoscorpium: Jeram, 1998: 25.

GEOLOGICAL OCCURRENCE: Upper Carboniferous of Kansas, USA.

†*Cryptoscorpium americanus* Jeram, 1994

Cryptoscorpium americanus Jeram, 1994a: 538–542, pl. 2, fig. 8–9; pl. 4; pl. 5, fig. 2–3, 5–10; pl. 6, fig. 1–3; pl. 7, fig. 3–4, 7; text-fig. 4D; 6; 7B–C, E–F; H; I; 8A, C–D.

HOLOTYPE: (BELUM K14083a), Upper Carboniferous, Stephanian B (Viriglian) Lower Williamsburg Coal, Douglas Shale Formation, Lone Star Lake Spillway, Douglas County, Kansas, USA.

PARATYPES: (BELUM K14083b, K14079, K14080, K14081), same locality as holotype.

GEOLOGICAL OCCURRENCE: Upper Carboniferous of Kansas, USA.

†Genus *PALAEOPISTHACANTHUS* Petrunkevitch, 1913

Palaeopisthacanthus Petrunkevitch, 1913: 35, 48; type species by original designation *Palaeopisthacanthus schucherti* Petrunkevitch, 1913.

REFERENCES

Palaeopisthacanthus: Francke, 1985: 11; Sissom, 1990a: 144; Jeram, 1998: 25; see also *P. schucherti*.

GEOLOGICAL OCCURRENCE: Upper Carboniferous (Pennsylvanian) of Illinois, USA.

†*Palaeopisthacanthus schucherti* Petrunkevitch, 1913

Palaeopisthacanthus schucherti Petrunkevitch, 1913: 48–49, pl. 2, fig. 8–9, text-fig. 11–12.

HOLOTYPE: (YPM 140), Upper Carboniferous (Pennsylvanian), Lower Francis Creek Shale, Mazon Creek, Grundy County, Illinois, USA.

REFERENCES

Palaeopisthacanthus schucherti: Petrunkevitch, 1949: 154; Petrunkevitch, 1953: 33; Petrunkevitch, 1955: P74, fig. 43(6); Dubinin, 1962: 431, fig. 1231, 1255a, b; Vogel & Durden, 1966: 655–658, pl. 81, fig. 1–3, text-fig. 1–2; Kjellesvig-Waering, 1986: 232–236, text-fig. 103, 104, 111G; Jeram, 1994a: 523–526, text-fig. 2.

GEOLOGICAL OCCURRENCE: Upper Carboniferous (Pennsylvanian) of Illinois, USA.

†*Palaeopisthacanthus vogelandurdeni* Jeram, 1994

Palaeopisthacanthus vogelandurdeni Jeram, 1994a: 526–530, pl. 5, fig. 4; pl. 7, fig. 6; text-fig. 6D.

HOLOTYPE: (BELUM K14086), Upper Carboniferous, Stephanian B (Viriglian) Lower Williamsburg Coal, Lone Star Lake Spillway, Douglas County, Kansas, USA.

GEOLOGICAL OCCURRENCE: Upper Carboniferous (Stephanian) of Kansas, USA.