New lycosoid spiders from cave and surface habitats in southern Australia and Cape Range peninsula (Araneae: Lycosoidea)

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Abstract – Two new genera of lycosoid spiders (Araneae: Lycosoidea) from Australian cave and surface habitats are described. The monotypic genus Bengalla gen. novo is erected for B. bertmaini sp. nov., a blind troglobite from Cape Range peninsula, Western Australia. Huntia gen. novo is erected for H. deepensis sp. nov., an epigean species from south-western Australia; and H. murrindal sp.nov., a troglobite with reduced eyes from south-eastern Australia. The relationships of both these genera and Janusia Gray, a putative lycosoid troglobite from the Nullarbor Plain, are discussed.

INTRODUCTION

The ecribellate spiders examined here are associated with the tengellid-zorocratid-lycosoid complex of Griswold (1993) and Griswold et al. (1999). This is a large assemblage of both cribellate and ecribellate spiders whose Australian representatives are numerous but contain many groups that are poorly known or understood. Among the structural features that characterise representatives of this complex are the subtegular/tegular locking lobes, made up of opposing lobes on the subtegulum and tegulum of the male palp; and the tibial crack, an annular suture at the base of the leg tibiae in males. Another significant character, the presence of a grate-shaped tapetum in the indirect eyes, could not be resolved for the material available in this study.

Two of the species described here are obligate cave dwellers, while the epigean species is known only from forests in south-western Australia. They are of importance faunistically as short range endemic species of conservation and zoogeographic significance. Their relationships are of considerable interest, including possible affinities to Janusia Gray, an enigmatic troglobitic species from the Nullarbor Plain (Gray, 1973), currently placed provisionally in the family Ctenidae. The recognition of new genera here is deemed appropriate given the difficulty of assigning the species described to available genera.

MATERIALS AND METHODS

Specimen examinations, measurements and drawings were made using a Wild M5 microscope with graticule and drawing attachment. Epigynal preparations were cleared in 8% potassium hydroxide before mounting in glycerol for microscopic examination. Specimen preparations for scanning electron microscopy were air dried from 100% acetone.

Terminology and abbreviations

The term “plicate” is used to describe the pleat-like transverse ridges on the trichobothrial bases. CL carapace length; CW carapace width; STC superior tarsal claw; ITC inferior tarsal claw; RTA retrolateral tibial apophysis; ALS anterior lateral spinnerets; PMS posterior median spinnerets; PLS posterior lateral spinnerets.

Repository institutions

AMS, Australian Museum, Sydney; SAM, South Australian Museum, Adelaide; WAM, Western Australian Museum, Perth.

SYSTEMATICS

Bengalla gen. novo

Type Species

Bengalla bertmaini sp. nov.

Description

Ecribellate hunting spiders. Body length 6–9.5 mm. The only known species is an eyeless, unpigmented troglobite. Fovea a deep slit. Labium moderately long, with deep basal notches. Lateral maxillae margins weakly concave. Cheliceral groove margins with three to four teeth. Legs long. Trochanters deeply notched. Anterior tibiae with lour to six pairs of ventral spines. Tibial crack absent. Tarsal organ subdistal, with a triangular, “keyhole derivative type” orifice. Trichobothria of similar length, in
two rows on tarsi and metatarsi; bases transversely plicate. Claw tufts absent, tarsi and metatarsi finely scopulate. ITC reduced on legs 1, 2 and absent on legs 3, 4. Setae simple and plumose (sensu Lehtinen, 1975); tarsi and metatarsi with flattened, recumbent, lanceolate, serrate setae, serrations on one side only; feathery hairs absent. Prolateral and retrolateral femora with pink to mauve iridescence. Male palpal tibia long, with an apical, plate-like retroventral apophysis and a widely bifid retrolateral apophysis. Cymbium short, ovoid, with marked retrobasal groove. Subtegular/tegular locking lobes present, but weakly developed. Median apophysis long, prolateral surface concave, longitudinally oriented. Embolus an elongate, slender spine. Conductor a gently curved process arising proapically, base fleshy, becoming a hyaline lamina distally. Epigynum with a broad, ‘wing-like’ scape, narrowest basally; sides concave anterolaterally. Lateral lobes with a pair of lobules that extend to the epigastric groove. Six spinnerets. ALS 2-segmented with 2 major ampullate spigots and 15–17 piriform spigots. PMS 1-segmented, spigots interpreted as 3 cylindrical, 4 aciniform and 1 minor ampullate, plus 3 other medium sized spigots. PLS 2-segmented, apical area only visible with 1 cylindrical and several aciniform spigots.
New cave and surface dwelling lycosoid spiders

Relationships

Monotypic genera like *Bengalla*, that are represented by highly cave-adapted species, can pose particular difficulties in the assessment of their relationships. For example, the absence of eyes removes an important set of features normally used in characterising lycosoids and their kin. The genus *Janusia*, described for an eyeless female spider from the Nullarbor caves of Western Australia, has presented similar problems, further exacerbated by the absence of male specimens. Gray (1973) placed *Janusia* provisionally within the Machadoninae (sensu Lehtinen, 1967), mainly on the basis of epigynal similarities with the Sri Lankan genus *Devendra* Lehtinen. Most of Lehtinen’s machadonine genera are now placed within the “ctenoid complex” of Griswold (1993). Possible affinity of *Bengalla* with *Janusia* is suggested by their possession of deeply notched trochanters; reduction or loss of the ITC; absence of claw tufts (the latter were erroneously noted as present in *Janusia* by Gray (1973); tarsal and metatarsal scopulae are present in *Bengalla*, but putative leg scopulae in *Janusia* are limited to the distal tarsi); and most notably, by the possession of a slender embolus. Gray (1973) observed the broken distal portion of a slender, wire-like embolus in a copulatory duct of the female type specimen. Within the tenellid-zorocratid-lycosoid complex of Griswold (1993) a slender embolus has been recorded in the zorocratids, *Acanthoctenus* and the ‘higher lycosoids’. This type of embolus is also seen in the Australian genus *Leptoctenus* L. Koch (*L. agelenoides* from Queensland) and *Anahita* Karsch (Diana Silva, personal communication). Both of these genera are currently referred to the Ctenidae. The other unusual character in *Bengalla* is the presence of epigynal lobules rather than teeth. However, this feature also occurs elsewhere and may not necessarily be unique at generic level. Silva (personal communication) has noted that either lobules or teeth can be present on the lateral lobes in species of both *Anahita* and *Leptoctenus*. The relationship of these genera with *Janusia* and *Bengalla* merits further consideration.

![figure](image_url)

*Figure 2* *Bengalla bertmaini* sp. nov., spinnerets (female): a, spinneret field; b, anterior lateral spinneret; c, posterior median spinneret; d, posterior lateral spinneret.
Bengalla bertmaini sp. nov.

Figures 1 a–e, 2 a–d, 3 a–f

Material Examined

Holotype


Paratypes: Western Australia: Cape Range peninsula: 1 ♀, Cave C.126, 1989, S. Eberhard (AMS KS 21585); 1 ♀, Cave C.167, 22°09’S, 114°00’E, 20 June 1989, M.S. Harvey (#3994) (WAM 94/22); 1 ♀, Cave C.118, 22°09’S, 113°59’E, 21 June 1989, W.F. Humphreys (#3637) (WAM 94/23); 1 ♀, Cave C.21, 22°14’S, 113°58’E, 10 July 1989, R. Wood and A. Humphreys (#3377) (WAM 94/21); 1 ♀, Cave C.169, 22°06’S, 114°00’E, 26 June 1989, A. Humphreys (#3821) (WAM 94/24); 1 ♀, Cave C.18, 13 August 1988, W.F. Humphreys et al. (WAM 94/19).

Diagnosis


Description

Male holotype

Body length 6.17. CL 3.06, CW 2.37. Caput profile almost flat, inclined slightly upward to fovea. Chelicerae slender. Legs 4123, very long, tibia I length 1.86 times CW. Spination: leg I, femur d01010 l p00110 r 01110, tibia v112222 p 001101010 r 111, metatarsus d010 v2112 p111 r111; leg II, femur d01111 p01111 r01111, patella p010, r010, tibia v222222 p01101 r010101010, metatarsus d012, v222, p111, r111; leg III, femur d01111 p01111 r11111, patella p010 r010, tibia v222222 p01101 r010101010, metatarsus d012, v222, p111, r111; leg IV, femur d01111 p01111 r11111, patella p010 r010, tibia v222222 p01101 r010101010, metatarsus d022 v222 p111 r111; leg IV, femur d01111 p01111 r01111, patella p010 r010, tibia d10011 v0200202 p00110 r00110, metatarsus d10011 v1101011001 p111 r110. Palpal tibia long, with two apophyses: an apical, retroventral plate and a subapical, widely bifid RTA made up of slender, curved retrolateral and retrodorsal processes (the former thickest), connected basally by a low ridge. Cymbium short, ovoid, without scopulate hair patch. Subtegular/tegular locking lobes only weakly developed. Median apophysis elongate, concave, arising on the retrolateral side of the middle tegulum. Embolus a slender, tapering spine, arising retrobasally. Conductor fleshy basally and mildly curved and twisted apically as a hyaline lamina supporting the thin distal embolus; apical conductor extends beyond the cymbium apex. Other characters similar to female.

Female paratype (KS 21585)

Body length 9.01. CL 4.94, CW 3.89. Unpigmented spiders. Legs and carapace light amber, somewhat darker toward front of caput and on chelicerae. Abdomen cream coloured. Caput profile gently arched back to anterior fovea, flattened in foveal region. Fovea a deep, moderately long slit. Chilidum divided. Eyes absent, lateral ocular area with ridge marking former position of lateral eyes. Chelicerae robust, with a large, lateral boss. Cheliceral retromargin and promargin with 3–4 teeth. Labium longer than wide (1:0.78), flat, with basolateral grooves opposite long basal notches. Maxillae moderately long, anterolateral margins gently concave. Sternum longer than wide (1:0.80), weakly pointed posteriorly. Legs 4123, long, tibia I length 1.47 times CW. Cuticle finely wrinkled. Trochanter deep notched. Spination: leg I, femur d010101 p01111 or 201 r01111, tibia v202222, metatarsus v0222; leg II, femur d01101 p01111 r0111101, patella r010, tibia v202222 r010100, metatarsus v0222; leg III femur d01111 p01111 r01111, patella p010, r010, tibia d1001010 v0222 p00110 r00110, metatarsus d022 v222 p111 r1110; leg IV, femur d01101 p0111101 r001101, patella p010 r010, tibia d10011 v0222 p00110 r00110, metatarsus d2102 v011101 r110101. Tibial and metatarsal spines long. Tarsi and metatarsi with weak scopulae. Claw tufts absent. STC with 5–6 teeth. ITC reduced on legs I, II and absent on legs III, IV. Tarsal organ capsule, placed distal to trichobothria; orifice triangular, broadest distally, tapering to a short, relatively wide, proximal slt. Trichobothria long, in two rows on tarsus and metatarsus. Trichobothrial base plicate with 3–5 transverse ridges. Colulus indistinct. ALS and PLS short, similar in length, PMS about half as long as PLS. Epigynal scape wide, with 'wing-like' lateral extensions spreading from a narrower basal attachment; anterolateral scape margins deeply concave. Lateral lobes with a pair of narrow lobules extending posteriorly to the epigastic groove. Lobules moderately flattened and translucent basally, each becoming paler and more opaque toward the bluntly rounded apices; attached basally along posterior part of the lateral epigynal groove, overlapping the posterolateral scape margin. Internal genitalia receptaculate; copulatory ducts short and curved, apparently opening from tapering atrial cavities under the anterolateral margins of the scape.
New cave and surface dwelling lycosoid spiders

Figure 3  *Bengalla bertmaini* sp. nov. a, b, male palp: tibia, cymbium and bulb: a, ventral; b, retrolateral. c, carapace, female. d–f epigynum: d, e, ventral; f, dorsal. Scale lines: a, b, d–f, 0.5 mm; c, 1 mm.

**Variation**

Width of basal attachment of epigynal scape ranges from one-fifth to two-thirds of the scape width.

**Distribution**

This troglobitic species is confined to the caves of the Cape Range peninsula, Western Australia.

**Remarks**

Specimens of *Bengalla bertmaini* were collected as part of a biogeographic study of the caves of Cape Range peninsula, Western Australia (Humphreys, 1993, Harvey et al., 1993). These blind, long-legged, tactile hunters are relatively common in the deeper regions of the caves, where they feed upon other arthropods that make up the diverse troglobitic fauna of those cave systems.

**Etymology**

The species is named for Emeritus Professor of Zoology, A.R. (Bert) Main.
Huntia gen. nov.

Type Species
Huntia deepensis sp. nov.

Description
Ecribellate hunting spiders. Body length 8–10 mm. Eyes in two rows: from above both are gently recurved; from in front AER straight, PER weakly procurred. AME smallest. Fovea short. Cheliceral margins with 3–4 teeth. Labium longer than wide with deep basal notches. Maxillae with weakly concave anterolateral margins. Sternum subcircular. Trochanters notched. Male legs with tibial crack. Anterior legs with 4 pairs of tibial spines. Claw tufts absent, tarsi with weak scopulae. ITC vestigial-absent. Setae simple and plumose (sensu Lehtinen 1975), feathery hairs absent. Tarsal organ placed subdistally, capsulate with a keyhole-type orifice. Trichobothria of similar length, in two rows on tarsi and metatarsi; base transversely plicate; Male palp with a small apical ventral apophysis and a large RTA, placed dorsad. Cymbium ovoid, tapering to a short, blunt apex; a dorsal scopula of short, fine hairs and a small, basodorsal apophysis are present. Subtegular/tegular lock present. Median apophysis large, prolaterally side deeply concave and bimarginate. Embolus a robust, curved, moderately flattened rod. Conductor a subapical, hyaline lamina. Epigynum with a broad scape, narrow at base, sides rounded; lateral teeth large. Six spinnerets: ALS 2-jointed with 2 major ampullate and 22 piriform spigots; PMS 1-jointed, spigots interpreted as 3–4 cylindrical, 1 minor ampullate, 15–17 aciniform; PLS 2-jointed, with 1 cylindrical spigot and many aciniform spigots (apical area only visible).

Variation
Huntia murrindal sp. nov. has a longer fovea; 5–6 pairs of tibial spines; ITC are present; tarsal organs are rod-like and more proximally placed (see "Comments" under this species regarding its generic placement).

Figure 4  a–c, Janusia muiri Gray, d–f, Huntia deepensis sp. nov., tarsus I: a, d, tarsal organ; b, e, trichobothrial base; c, f, tarsal claws.
New cave and surface dwelling lycosoid spiders

Relationships

Based upon the character distribution of the tibial crack, a basal suture line found on the male leg tibiae (Griswold, 1991, 1993), it is likely that the ecribellate genus *Huntia* belongs either with the mostly cribellate Zorocratidae and Zoropsidae or the entirely ecribellate “ctenoid complex” of Griswold (1993). A longer labium and the absence of claw tufts suggests that *Huntia* is not a zoropsid. Its male palpal structure, with a large RTA, flattened embolus and deeply concave median apophysis, resembles the pattern seen in both the African zorocratid genus *Raecius* and ctenoid genera such as *Devendra* from Sri Lanka and *Machadonia* from southern Africa. The inclusion of *Huntia* in any of those genera seems precluded by one or more of the following characters: the presence of a keyhole shaped tarsal organ, a bimarginate median apophysis and a basodorsal cymbial apophysis. A bimarginate median apophysis is found only in genera of the “ctenoid complex”, with the exception of *Devendra*. A basodorsal cymbial apophysis is recorded in the zorocratid genus *Zorodictyna* and the ctenoid genus *Ctenus* (Griswold, 1993). Taken together, the characters of *Huntia* noted above, along with the presence of two recurved eye rows and epigynal teeth, suggest that this genus belongs near *Machadonia* in Griswold’s “ctenoid complex” (genera *Devendra*, *Phanotea*, Machadonia, *Ctenus* and *Phoneutria*). The presence of a robust, rod-like embolus in *Huntia*, in contrast to the slender embolus of *Janusia*, probably precludes close relationship between these genera.

Etymology

The genus is named for and dedicated to our good friend and colleague, the late Glenn Hunt, former Research Associate of the Australian Museum, arachnologist and educator. The gender is male.

*Huntia deepensis* sp. nov.

Figures 4 d–f, 5 a–d, 6 a–d, f, g

Material Examined

*Holotype*

♂, Hill Top Rd, 2 km from turnoff on Southwest

Figure 5  *Huntia deepensis* sp. nov., spinnerets (female): a, spinneret field; b, anterior lateral spinneret; c, posterior median spinneret; d, posterior lateral spinneret.
Hwy, Walpole-Nornalup National Park, Western Australia, Australia, 34°58'S, 116°46'E, 8 February 1979, M.R. Gray (AMS KS 3323).

Paratypes

Australia: Western Australia: 1 ♀, Walpole-Nornalup National Park, Hill Top Rd, 1.9 km from Southwest Highway turnoff, 34°58'S, 116°46'E, 31 January 1979, M.R. Gray (AMS KS 5957); 1 ♀, West Cape Howe National Park, 35°06'S, 117°37'E, 26 April 1990, M.S. Harvey and J.M. Waldock (WAM T42364).

Other Material


Diagnosis


Description

Male holotype

Body length 9.17, CL 4.78, CW 3.37. Caput profile almost flat, highest at fovea. Legs 4213, tibia I length 1.22 times CW. Spination: leg I, femur d0110 p00011 r010, tibia v2222 p0110 r0110, metatarsus v12120 p011 r001; leg II, femur d0111 p01011 r01100, tibia v2222 p011010 r0110, metatarsus v2211 p111 r011; leg III, femur d0110 p01110 r01101, patella p010 r010, tibia d110 v2222 p0110 r0110, metatarsus d2221 v02221 p111 r111; leg IV, femur d0111 p00011 r01100, patella p010 r010, tibia d1010 v2222 p01010 r01100, metatarsus d2002 v01212 p10110 r10001. Tibiae with tibial crack. STC with 10–11 teeth. Tarsal scopulae sparse. Palpal tibia with a small, apical, retroventral apophysis; RTA large, placed dorsal, thickest basally, tapering to a blunt, twisted apex. Cymbium ovoid, with a short, blunt apical section and a dorsobasal apophysis; dorsal cymbium with a short, fine scopula patch. Subtacular/tegular locking lobes present. Median apophysis large, deeply concave (“hood-shaped”) and bimarginate, arising retrobasally. Embolus a robust, moderately curved and flattened rod, distally grooved. Conductor a hyaline lamina arising from the upper, retralateral tegulum and placed dorsal to the distal embolus. Other characters similar to female.

Female paratype (KS 5957)

Body length 9.69, CL 5.06, CW 3.67. Carapace amber, with greyish brown patterning. Legs banded. Abdomen with a pale, narrow, dorsal stripe and grey spotted patterning, with 8 pairs of more or less distinct chevrons posteriorly. Caput profile smoothly arched. Fovea a short, deep slit. Clypeus short, the width of an AME. Chilum entire, a weakly sclerotised, triangular plate. Eyes: AME smallest. AME<PME=PLE<ALE. MOQ length/width ratio 1:1.21. From above, AER slightly recurved, PER recurved; from in front, AER straight, PER slightly procurred. PER widest. Tapetum type unresolved. Chelicerae robust, weakly geniculate, with large lateral boss; 3 teeth on both retralateral and prolateral margins. Ovoid spot of dark cuticle (?)porose) behind retromarginal teeth. Medial cheliceral margin with a line of numerous, short, straight hairs. Labium longer than wide (1:0.88), basally notched, anteroventral area convex. Maxillae longer than wide, widest apically, anterolateral margins weakly concave. Sternum sub-circular, length/width ratio 1:0.90. Legs 41?23, relatively short, tibia I length 0.87 times CW. Cuticle finely wrinkled. Trochanters notched, shallower anteriorly, deeper posteriorly. Spination: leg I, femur d0110 p00011, tibia v2222 p0110, metatarsus v2211 p001 r001; leg II, femur d0110 p01110 r01100, tibia v2222 p011010, metatarsus v2211 p111 r001; leg III, femur d01111 p011110 r01110, patella p010 r010, tibia d01100 v2222 p01010 r0110, metatarsus d222 v22211110 p111 r111; leg IV, femur d0111 p011110 r011100, patella p010 r010, tibia d01100 v2222 p01010 r01100, metatarsus d222 v11011012 p111 r111. STC with 6–7 teeth, ITC vestigial-absent. Claw tufts absent. Tarsi and distal metatarsi with weak scopulae. Tarsal organ subdistal, placed distal to trichobothria; capsule, with a keyhole shaped orifice. Trichobothria staggered to form two irregular rows on tarsus; two rows on metatarsus; trichobothrial bases plicate, with 2–3 transverse ridges. Colulus indistinct. ALS and PLS short, similar in length, PMS about half as long as PLS. Epigynum with broad, lobe-like scape, lateral margins convex, narrow at base, widest across middle, posterior margin with a more or less distinct median protuberance. Lateral lobes with a large, bluntly pointed tooth arising on the posterior part of each lobe and extending back to the epigastic groove. Internal genitalia receptaculate; short copulatory ducts appear to open from atrial entrances under the anterolateral scape margins.
New cave and surface dwelling lycosoid spiders

Figure 6  a–d, f, g, *Hunlia deepensis* sp. nov., e, h, i, *Hunlia murrindal* sp. nov. a–c, male palp: tibia, cymbium and bulb: a, ventral; b, prolateral; c, retrolateral. d, e, carapace, female. f–i, epigynum: f, h, ventral; g, i, dorsal. Scale lines: a–c, f–i, 0.5 mm; d, e, 1 mm.
Distribution
This species is known from the forest and woodland habitats of the Shannon River to West Cape Howe region of southern Western Australia.

Etymology
The specific epithet refers to the Deep River, Normalup-Walpole National Park.

Huntia murrindal sp. nov.
Figures 6 e, h, i, 7 a–d

Material Examined

Holotype

Paratypes
Australia: Victoria: 1 ♀, data as for holotype (AMS KS 50691); 1 ♀, East Buchan, Trogdip Cave (EB10), 37°30'S, 148°15'E, 13 March 1967, E. Hamilton-Smith (SAM, BS 1570).

Diagnosis
Eyes and pigmentation reduced. Intermediate tarsal claws present. Prominent tarsal rod present, placed near mid-tarsus. Epigynal teeth subcaudal.

Description

Female holotype
Body length 9.95, CL 5.31, CW 4.10. Pigmentation greatly reduced. Carapace, sternum and legs tawny amber, darker on caput, chelicerae and distal leg segments; carapace with faint grey

Figure 7  Huntia murrindal sp. nov., tarsus I: a, trichobothrial base; b, tarsal claws; c, d, tarsal rod.
marginal band. Abdomen pallid grey, palest in size, AME smallest, probably non-functional (clypeus 4x width of AME). From above, AER slightly recurved, PER recurved; from in front AER slightly recurved, PER straight to slightly procured. PER widest. Tapetum type flattened at fovea. Fovea an elongate slit. Eyes: all functional (clypeus 4x width of AME). From above, AER slightly recurved, PER recurved; from in front AER slightly recurved, PER slightly recurved, PER straight to slightly procured. PER widest. Chelicerae robust, weakly geniculate, with lateral boss; promargin and retromargin with 3–4 teeth. Chilum wide, divided. Chelicerae promargin and retromargin with 3–4 teeth. Medial straight hairs. Labium longer than wide (1:0.76), anteroventral area convex; with basolateral grooves adjacent to basal notches. Sternum subcircular, length/width ratio 1:0.86, weakly pointed posteriorly. Setae plumose CW. Cuticle finely wrinkled. Trochanters deeply notched. Spination: leg I, femur d01010 p000110 r001110, tibia v22222 p01100 r001100, metatarsus v222; leg II, femur d0111011101 p011201020 r0111010101, tibia d01010 v222222 p01102 r0111010, patella p010 r010, tibia d1110 v212 p01010 r01110, metatarsus d01010 v222 p111 r1011010; leg III, femur d0101010 p0110110 r011110, patella p010 r010, tibia d1110 v212 p01010 r01110, metatarsus d01010 v222 p111 r1011010; leg IV, femur d0101010101 p0110110 r0011010, patella p010 r010, tibia d101010 v20202 p0110 r0101, metatarsus d101 v222 p111 r1101. Three tarsal claws with 5–7 teeth on STC, ITC smooth. Claw tufts and scopulae absent. Tarsal organ an elongate rod, placed at or proximal to the middle of the tarsus; orifice apicoventral, rounded with a very short, narrow, proximal slit. Trichobothria in two rows on tarsi and metatarsi, bases plicate with 4–5 transverse ridges. Colulus a small, hairy cone. ALS and PLS 2-segmented, PLS base robust, conical, ALS base cylindrical, both similar in length, PMS 1-segmented, about half as long as PLS. Epigynal scape narrow basally, broadest posteriorly, anterolateral margins concave. Moderately large, flattened lateral teeth arise near the middle of the lateral lobes and curve posteromedially across the lateral scape margins, not reaching the epigastric groove. Internal genitalia receptaculate; atria opening under the anterolateral scape margins lead back into short, curved copulatory ducts.

**Distribution**

This cave adapted species is known only from the Buchan-Murrindal cave system in south-eastern Victoria.

**Remarks**

The placement of *H. murrindal* within *Huntia* is provisional until males become available. Taxonomic convenience is involved as a name is needed for this species because of its significance in biodiversity studies of south-eastern Australian cave systems. The species is placed in *Huntia* largely on the basis of sharing with *H. deepensis* a similar eye pattern, the presence of epigynal teeth and the weak development or absence of leg scopulae. Some characters seen in *H. murrindal* are markedly different from *H. deepensis*, notably the presence of three tarsal claws and a tarsal rod. However, the presence of tarsal rods and capulate tarsal organs within the same genus has been demonstrated in *Machadonia* (Griswold, 1991). The different positions of the tarsal organ (subdistal in *H. deepensis*) and tarsal rod (central in *H. murrindal*) may suggest that these structures are not homologous.

**Etymology**

The specific epithet is a noun in apposition taken from the type locality.

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**REFERENCES**


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