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AUSTROTENERIFFIA KHORRAMABADIENSIS N. SP. (ACARI: TENERIFFIIDAE): A NEW SPECIES FROM SOUTHWESTERN IRAN, WITH A DESCRIPTION OF THE MALE

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ABSTRACT — A new mite species belonging to the family Teneriffiidae, Austroteneriffia khorramabadiensis n. sp., from southwestern Iran (Khorramabad vicinity, Lorestan province) is described and illustrated based on females and males sampled from the soil and litter associated with oak trees. A key to adult females of the genus Austroteneriffia is also provided based on the original description and the literature.

KEYWORDS — Trombidiformes; Anystoidea; soil mite; predatory mite; oak; Iran

INTRODUCTION

The genus Austroteneriffia was described by Womersley (1935) with type species A. hirsti Womersley, from Australia. This genus is one of the eight genera belonging to the family Teneriffiidae. The members of Austroteneriffia are free living in soil, sand, under rocks, leaf litters under oak trees, and on ground pearls, Porphyrophora tritici (Bodenheimer) (Margarodidae) (Sayer et al. 1992; Judson 1995; Ueckermann and Khanjani 2002; Khanjani et al. 2011; 2013). Up to now nine species were recorded, namely: A. hirsti Womersley, 1935; A. japonica (Ehara 1965); A. tadjikistanica Wainstein 1969; A. hotoensis (Shiba and Furukawa 1975) [suspected junior synonym of A. japonica (Ehara 1965) by Judson 1995]; A. littorina Shiba and Furukawa 1975; A. leei Judson, 1994; A. kamalii Ueckermann and Khanjani 2002; A. zamaniani Khanjani et al. 2011; A. shirazensis Khanjani et al. 2013. This paper presents the description of a new species, A. khorramabadiensis, as tenth species of the genus.

MATERIAL AND METHODS

Mites were extracted from soil and litter under oak trees, from Khorramabad vicinity, Lorestan province using Tulgren funnels. The obtained mites were mounted directly on slides in Hoyer’s medium. The slides were dried in an oven with 50 °C, covered with nail polish and examined under an Olympus BX51 phase contrast and a Differential Interference Contrast microscope. Drawings were made with a camera Lucida. The notation of the idiosomal setae follows that of Kethley (1990) and the notation of the cupules and female and male genitalia that of Judson (1995). All measurements are given in micrometers (µm) and the holotype measurements (female) are followed by the range of the
Genus diagnosis — Color orange to red in life, body oval; aggenital chaetotaxy holotrichous; claws of legs I-II large, strongly pectinate; prodorsal shield with four pairs of setae (\(vi, ve, sci, sce\)), opisthosoma with seven pairs of setae (\(c1, c2, d1, e1, f1, h1, h2\)), of which seta \(c2\) is the longest; palp genu with or without oncophysis; gnathosoma with four pairs of setae: three pairs of adoral setae (\(or1-3\)), and one pair of subcapitular setae (\(m\)) [Based on Womersley (1935) and Judson (1995)].

**Key to species of Austroteneriffia of the world (Females)**

1. Palpal oncophysis present ............................... 4
   —Palpal oncophysis absent ............................... 2

2. Prodorsal shield poorly defined; seta \(c2\) almost extending to base of seta \(d\) ........................... \(A. \) littorina Shiba & Furukawa
   —Prodorsal shield distinct; seta \(c2\) reaching to over the base of setae \(e\) or \(f\) ............................... 3

3. Basifemur I with five setae, tibia II nine setae...... \(A.\) zamaniani Khanjani, Asali Fayaz & Ueckermann
   —Basifemur I with four setae, tibia II 10 setae............. \(A.\) kamalii Ueckermann & Khanjani

4. Genu IV with a solenidion ............................. 5
   —Genu IV lacking a solenidion .......................... 6

5. Basifemur I with five setae; telofemur III with five setae; prodorsal shield without distinct pores............................... \(A.\) hirsi Womersley
   —Basifemur I with four setae; telofemur III with four setae; prodorsal shield with distinct pores. .............................. \(A.\) leei Judson

6. Basifemur III with four setae ............................ 7
   —Basifemur III with five setae ............................ \(A.\) tadikistanica (Wainstein)

7. Trochanter IV with 2 setae ............................... 8
   —Trochanter IV with 3 setae ............................... \(A.\) shiraziensis Khanjani, Yazdanpanah & Asali Fayaz

8. Telofemora III-IV with 5 setae, telotarsi III-IV with 7-6 (7) setae ........................................ \(A.\) japonica (Ehara) / \(A.\) khorramabadiensis
   —Telofemora III-IV with 4 setae, telotarsi III-IV with 8-8 setae .............................. \(A.\) khorramabadiensis n. sp.

**Austroteneriffia khorramabadiensis Khanjani n. sp.**

(Figs. 1-3)

Diagnosis — This species is close to \(A.\) japonica but differs by having 8 setae on the telotarsus III instead of 7 for \(A.\) japonica and by having 4 setae on the teleform III-IV instead of five; palpal oncophysis present; trochanter IV with two setae; basifemura and telofemora III-IV each with four setae; telotarsi III-IV with 8-8 setae; genu IV without a solenidion; dorsal seta \(c2\) reaching over the base of seta \(h1\).

**Female (n= 3):** Color orange in life. Idiosoma oval. Body length (base of palp tibial claw to terminal body) 868 (915 – 930), excluding gnathosoma 588 (610 – 633); width 485 (458 – 470) at level of seta \(c2\).

Dorsum — (Figs. 1A-D). Prodorsal shield almost oval, 333 (320 – 330) long, 210 (210 – 217) wide at level of setae \(sce\), with two pairs of eyes between setae \(sce\) and \(c2\), anterior and posterior pairs 25 (20 – 21) and 31 (35 – 37) in diameter, respectively (Fig. 1A). Hysterosoma with three pairs of cupules (\(ia, im\) and \(ip\) near setae \(d1, fl\) and \(h1\) (Fig. 1A)). Prodorsal shield with four pairs of setae of which two pairs trichobothria (\(sci\) and \(vi\)); opisthosoma striated, bearing seven pairs of barbed setae (\(c1, c2, d1, e1, f1, h1, h2\)). Stigmatic opening anterior to setae \(vi\) and near to base of chelicera (Fig. 1A), with about 9 rows of
FIGURE 1: *Austroteneriffia khorramabadiensis* n. sp. (Female): A – Dorsum, B – Peritreme, C – Trichobothrium sci, D – Dorsal body seta c1, E – Chelicera, F – Palp, G – Venter, H – Genital region.
Figure 2: Austrotenerifia khorramahadiensis n. sp. (Female): A – Basifemur-tibia I, B – Basifemur-tibia II, C – Basifemur-tibia III, D – Basifemur-tibia IV.

Venter — (Figs. 1G-H). Ventral cuticle striated. Coxisternal shields smooth, bearing 14 pairs of setae (la, 1b, 1c, 1d, 2a, 2b, 2c, 3a, 3b, 3c, 3d, 4a, 4b and 4c); coxisternal shield of legs I and II is fused, separated from legs III and IV (Fig. 1G). Aggential area with six pairs of setae (ag1-6), genital valves with six pairs of genital setae (g1-6) (one side of...
genital valve in holotype specimen with five setae), four pairs of eugenital setae (eug1-4), three pairs of papillae-associated setae (k1-3), and three pairs of genital papillae (Fig. 1H); anal valves with three pairs of pseudanal setae (ps1-3). Measurements of setae: g1 26 (18 – 27), g2 24 (21 – 24), g3 20 (19 – 21), g4 19 (16 – 19), g5 20 (17 – 18), g6 21 (20 – 21); ag1 53 (45 – 51), ag2 42 (39 – 40), ag3 41 (39 – 40), ag4 50 (47 – 49), ag5 57 (52 – 56), ag6 54 (50 – 52), k1 7 (5 – 9), k2 5 (6 – 5), k3 5 (5), eug1 18 (22 – 23), eug2 12 (9) and eug3 15 (14 – 15), eug4 5 (4 – 5), ps1 40 (44 – 45), ps2 40 (422 – 46), ps3 48 (46 – 48). Distances between setae: g1-g1 10 (7 – 11), g2-g2 17 (13 – 15), g3-g3 22 (20 – 21), g4-g4 23 (22 – 24), g5-g5 20 (20 – 22), g6-g6 20 (20 – 22); g1-g2 12 (10 – 12), g2-g3 12 (9 – 10), g3-g4 13 (10 – 12), g4-g5 12 (10 – 11), g5-g6 11 (8 – 12); ag1-ag1 105 (93 – 102), ag2-ag2 75 (73 – 74), ag3-ag3 90 (85 – 94), ag4-ag4 138 (148 – 150), ag5-ag5 130 (121 – 128), ag6-ag6 58 (50 – 61), ag1-ag2 29 (37 – 43), ag2-ag3 25 (23 – 25), ag3-ag4 33 (30 – 33), ag4-ag5 60 (57 – 59), ag5-ag6 51 (52 – 56), ps1-ps1 58 (76 – 80), ps2-ps2 78 (85 – 88), ps3-ps3 75 (80 – 83). Setae ps1-3 fine and barbed.

Gnathosoma — (Figs. 1E-G). Palp five seg-
mented, palp tarsus reduced, with eight setae plus one solenidion (4) (5) long; palp tibia with one robust terminal spur (oi) 52 (51 – 52), two subterminal spurs (o2-3), 20 (18 – 20) and 17 (15) long, plus one serratell seta; palp femur and genu each with one seta, 118 (110 – 112) and 75 (74 – 76) long, respectively; onophysis on distal end of genu 13 (11 – 12) long (Fig. 1F). Chelicerae 185 (190), movable digit 30 (34 – 37), with setae cha 46 (41 – 50) and chb 75 (71 – 72) (Fig. 1E); with one pair subcapitular setae (m) and three pairs of adoral setae: m 50 (55 – 60); or1 13 (15 – 16), or2 14 (12 – 13) and or3 55 (52 – 57); distances between setae: m-m 38 (35 – 37), or1-or1 26 (20 – 21), or1-or2 6 (5 – 7), or2-or2 30 (24 – 25), or2-or3 27 (24 – 31), or3-or3 85 (75 – 80), m-or1 56 (50) (Fig. 1G). Palp coxa with one supracoxal seta 4 (4 – 5) long (Fig. 1G).

Legs — (Figs. 2-3). Leg IV much longer than total length of body; each side of claws on tarsi I-II with 16 – 19 pectinations and tarsi III-IV with one median empodium. Measurements of leg segments as follows: Ta I 167 (173 – 179), Ti I 140 (138 – 140), Ge I 100 (94 – 95), TF I 69 (73 – 80), BF I 104 (96 – 100), Tr I 95 (70 – 85), Cx I 243 (253 – 262), leg I 918 (897 – 941); Ta II 173 (178 – 185), Ti II 145 (143 – 145), Ge II 100 (94), TF II 73 (71 – 85), BF II 100 (93 – 101), Tr II 89 (75 – 87), Cx II 239 (252 – 255), leg II 919 (906 – 952); Ta III 247 (246 – 254), Ti III 164 (168 – 170), Ge III 97 (93 – 98), TF III 79 (85 – 90), BF III 84 (76 – 87), Tr III 96 (95 – 97), Cx III 212 (203 – 205), leg III 979 (1001 – 1066); Ta IV 297 (300 – 303), Ti IV 197 (206 – 210), Ge IV 116 (110 – 117), TF IV 106 (102 – 105), BF IV 99 (97 – 116), Tr IV 125 (115 – 123), Cx IV 219 (207 – 210), leg IV 1159 (1142 – 1211), IP 3975 (3946 – 4170). Setal formulae of leg (I-IV) segments as follows (solenidia in parenthesis): coxae 4-3-4-3; trochanters 1-2-2-2; basifemora 5-6-4-4; telofemora 5-5-4-4, genua 8(1σ)-7(1σ)-7(1σ)-7; tibiae 12(1ϕ)-12(1ϕ)-12(1ϕ)-12(1ϕ)-12(1ϕ)-12(1ϕ)-12(1ϕ); tarsi 27(3ωω)-27(3ωω)-23 +1tric-23(2ωω)+1tric (Figs. 2-3). ω1 I 12 (10), ω2 I 20 (15 – 17), ω3 I 17 (15 – 16), ω1 II 12 (10 – 12), ω2 II 17 (15), ω3 II 15 (16), ω I IV 15 (15 – 20), ω II IV 16 (17 – 18), κTi I 8 (8), oII 20 (19 – 22), oII 18 (13 – 16), oIII 22 (19 – 25), oIV 20 (15 – 16); σ1 30 (27 – 30), σ2II: 35 (22 – 30), σIII 25 (27 – 29). Tarsi III-IV with one long trichobothrium each, 130 (120 – 125) and 140 (135 – 150) long, respectively (Figs. 3C-D). Coxa I with one supra coxal setae, 4 (4) (Fig. 1G).

MALE (n= 5): Color in life orange, Idiosoma oval. Length of total body (base of palp tibial claw to terminal body) 540 – 628, excluding gnathosoma 465 – 530; width 340 – 430 at level of seta c2.

Dorsum — (Figs. 4A-D). Prodorsal shield oval, 295 – 305 long, 190 – 200 wide, two longitudinal rows (5-6) of small oval pores between setae sce-c1 on prodorsal shield and two pairs of eyes between level of setae sce and c2, anterior and posterior pairs 18 – 20 and 23 – 26 in diameter, respectively (Fig. 4A). Hysterosoma with three pairs of cupules (ia, im and ip) near setae d1 and f1 (Fig. 4A). Prodorsal shield with four pairs of setae (vi, ve, sci and sce), two pairs of ordinary setae, sce, ve and two pairs of trichobotria, sci; and vi; opisthosa striated, bearing seven pairs of setae (c1, c2, d1, e1, f1, h1, h2). Stigmatic opening anterior to setae ve and base of chelicera, with about 11 rows of elongate alveoli at opening of peritremes (Fig. 4B). Dorsal setae serrated (Figs. 4A,C,D). Setae c2 longest, 330 – 383 long; versus h2 shortest, 80 – 105 long. Lengths of dorsal setae as follows: vi 92 – 101, ve 123 – 130, sci 142 – 150, sce 178 – 193, cf 130 – 138, c2 259 – 300, d1 125 – 139, e1 137 – 153, f1 148 – 151, h1 116 – 125, h2 78 – 89; distances between dorsal setae: vi-ve 30 – 45, ve-ve 148 – 155, sci-sci 125 – 135, sce-sce 171 – 180, vi-ve 63 – 68, ve-sci 13 – 15, sce-sci 61 – 66, sce-c1 150 – 163, c1-c1 123 – 136, c1-c2 45 – 53, c2-c2 215 – 235, c1-d1 56 – 63, d1-d1 130 – 143, d1-e1 42 – 55, e1-e1 108 – 110, e1-f1 69 – 83, f1-f1 70 – 80, f1-h1 58 – 65, h1-h1 33 – 38, h1-h2 50 – 63, h2-h2 125 – 143, vi-ve 2.44 – 3.06; ve-ve 0.83 – 0.84, sci-sci 1.1 – 1.13, c1-c1-c1 1.01 – 1.05, c2-c2-c2 1.2 – 1.27, d1/d1-d1 0.96 – 0.97, e1/e1-c1 1.26 – 1.39, f1/f1/f1 1.8 – 2.1, h1/h1-h1 3.3 – 3.5; vi-vi: ve-ve: sci-sci: sce-sce:c1-c1-c2-c2: d1-d1: e1-e1-f1-f1-h1-h1-h2-h2 : (0.42 – 0.56) : (1.93 – 2.1): (1.68 – 1.78): (2.25 – 2.4): (1.7 – 1.75): (1.78 – 1.85): (2.20 – 2.60): (1.54 – 1.37): (1.0 – 1.0): (0.47 – 0.48): (1.78 – 1.79).

Venter — (Fig. 4G). Ventral cuticle striated. Coxisternal shields smooth, longitudinally striated between coxa I-IV; coxisternal shields II-III separated by transverse striations; coxisternal shields bear 14 pairs of coxal setae: 1a 59 – 63, 1b 73 – 75, 1c 82 – 88.
**Figure 4:** *Austroteneriffia khorramabadiensis* n. sp. (Male): A – Dorsum, B – Peritreme, C – Trichobothrium sci, D – Dorsal body setae (seta c1), E – Chelicera, F – Palp, G – Venter, H – Genitalia.
**Figure 5**: Austroteneriffia khorramabadiensis n. sp. (Male): A – Basifemur-tibia I, B – Basifemur-tibia II, C – Basifemur-tibia III, D – Basifemur-tibia IV.

1d 103 – 105 + one supracoxal spur 4 – 5; 2a 53 – 58, 2b 40 – 45, 2c 72 – 75, 3a 62 – 72, 3b 43 – 47, 3c 46 – 49, 3d 60 – 65, 4a 35 – 39, 4b 37 – 46, 4c 72 – 82. One pair of cupules (Fig. 4G). Aggential area with six pairs of setae (ag1-6), genital valves with 6 pairs of setae, anal valves with three pairs of pseudanal setae (ps1-3). Measurements of setae: g1 24 – 27, g2 26 – 28, g3 26 – 29, g4 22 – 28, g5 23 – 27, g6 22 – 27, ag1 36 – 40, ag2 30 – 33, ag3 30 – 38, ag4 35 – 40, ag5 35 – 44, ag6 35 – 38, ps1 38 – 45, ps2 35 – 43, ps3 38 – 43, all setae serrated. Distances between setae: g1-g1 10 – 13, g1-g2 9 – 13, g2-g2 18 – 21, g2-g3 7 – 9, g3-g3 25 – 33, g3-g4 10 – 13, g4-g4 23 – 30, g4-g5 10 – 13, g5-g5 23 – 30, g5-g6 10 – 13, ag1-ag1 73 – 75, ag2-ag2 68 – 84, ag3-ag3 89 – 109, ag4-ag4 155 – 177, ag5-ag5 150 – 175, ag6-ag6 57 – 80, ag1-ag2 23 – 30, ag2-ag3 23 – 37,
Figure 6: *Australoteneriffia khorramabadiensis* n. sp. (Male): A – Tarsus I, B – Tarsus II, C – Tarsus III, D – Tarsus IV.

\[ag3-ag4\] 45 – 50, \[ag4-ag5\] 53 – 59, \[ag5-ag6\] 65 – 69, \[ps1-ps1\] 71 – 75, \[ps2-ps2\] 70 – 80, \[ps3-ps3\] 63 – 78, \[ps1-ps2\] 20 – 28, \[ps2-ps3\] 13 – 18.

Male genitalia — (Fig. 4H). With eight pairs of eugenital setae \([1 28, 2 15, 3 18, 4 25, 5 35, 6 10, 7 25, 8 30, 9 21]\) and one spine like seta \([x 5]\) (Fig. 4H).

Gnathosoma — (Figs. 4E-G). Palp five segmented, palp tarsus reduced to circular plate, with eight setae (three long and serrated, two short and serrated, two short and smooth, one duplex seta and one solenidion \((\omega)\) 6 – 8 long; palp tibia with one robust terminal spur \((o1)\) 40 – 51 long, two subterminal spurs \((o2-3)\) 16 – 20 and 15 – 17 long, plus one serrated seta; oncosphysis on genu distally, 10 – 14 long, palp genu and femur each with one seta, 67 – 76 and 107 – 118 long, respectively (Fig. 4F). Chelicerae 160 – 175, movable digit 23 – 26, with two setae \(cha\) 35 – 42 and \(chb\) 60 – 71 (Fig. 4E). Subcapitulum with one pair of setae \(m\), 50 – 60, three pairs of adoral setae: \(or1\) 13 – 16, \(or2\) 11 – 13, \(or3\) 54 – 57;
distances between setae: $m-m$ 35 – 45, $or1-or1$ 17 – 20, $or2-or2$ 23 – 26, $or2-or3$ 25 – 28, $or3-or3$ 46 – 50, $m-orl$ 45 – 51 (Fig. 4G). Palp coxa with one supracoxal seta, 4 long (Fig. 4G).

Legs — (Figs. 5-6). Leg IV is much longer than total length of body. Each side of claws on tarsi I- II with 13-15 pectinations and tarsi III-IV with one median empodium. Measurements of leg segments as follows: Ta I 172 – 182, Ti I 138 – 150, Ge I 96 – 106, TF I 73 – 84, BF I 99 – 109, Tr I 180 – 84, Cx I 230 – 245, leg I 880 – 960; Ta II 181 – 193, Ti II 138 – 150, Ge II 89 – 102, TF II 82 – 90, BF II 90 – 101, Tr II 83 – 90, Cx II 225 – 240, leg II 880 – 966; Ta III 241 – 252, Ti III 160 – 178, Ge III 92 – 103, TF III 80 – 90, BF III 85 – 96, Tr III 83 – 91, Cx III 185 – 198, leg III 926 – 1000; Ta IV 295 – 313, Ti IV 194 – 213, Ge IV 109 – 115, TF IV 94 – 105, BF IV 94 – 103, Tr IV 106 – 113, Cx IV 195 – 208, leg IV 1087 – 1170, IP 3773 – 4096. Setal formulae of leg segments as follows (solenidia in parentheses): coxae 4-3-4-3; trochanteras 1-2-2-2; basifemora 5-6-4-4; telofemora 5-5-4-4, genua 8(1σ)-8(1σ)-7(1σ)-7; tibiae 12(1ψ)(1κ)-12(1ψ)-12(1ψ)-12(1ψ); tarsi 27(3ω)-27(2ω)-23+1tric-23(2ω)+1tric (Figs. 5-6). $\omega 1$ I 11-13, $\omega 2$ I 19-21, $\omega 3$ I 16-18, $\omega 1$ II 11-12, $\omega 2$ II 15-18, $\omega 3$ II 10-11, $\omega 1$ IV 19-21, $\omega 2$ IV 14-17, $\kappa$ Ti I 8-10, $\phi$ I 25-30, $\phi$ II 23-26, $\phi$ III 21-24, $\phi$ IV 18-22, $\sigma$ I 25-29, $\sigma$ II 23-25, $\sigma$ III 25-29. Tarsi III-IV with long trichobothrium each 113 – 124 and 145 – 161 long respectively and almost same in length of female (Figs. 6C-D).

Remarks — Austroteneriffia khorramabadiensis n. sp. closely resembles A. japonica (Ehara) in that basifemor III has 4 setae, trochanter 2 setae, genu IV is without solenidion and palp oncopysis present. However, it differs that in: 1) Trochanter II with 2 setae instead of 3 setae; 2) Telofemora III-IV each with 4 setae in the former instead of 5 each with 2 setae instead of 3 setae; 2) Telofemora III-IV with 8-8 setae in the latter; 3) Genua I-IV with 8(1σ)-8(1σ)-7(1σ)-7 in new species opposed to 3 in A. shiraziensis; 2) Genua formula I-IV with 8(1σ)-8(1σ)-7(1σ)-7 in the former opposed to 7(1σ)-7(1σ)-6(1σ)-6 in the later; 3) Tibia IV with 12 (1ψ) in the former whereas 12 (3ψ) in the latter; 4) Basitarsus III with 15(1ω)+1tric in A. khorramabadiensis whereas 15(2ω)+1tric in A. shiraziensis; 5) Telotarsi III with 8 setae instead of 9; 6) Male genitalia setae 7 and 9 with three rami in the former opposed to two rami in the latter.

Etymology — This species is named in honor of the city of Khorramabad, capital of Lorestan province, where the new species was collected.

Type materials — The holotype female and two paratype females and five allotype males were collected from soil and litter under oak trees, Quercus brantii Lindl (Fagaceae), Kaka Reza region, Khorramabad vicinity, Lorestan province (33°56’N, 48°39’E, a.s.l. 1703 m), 19 xi 2011, by Mohammad Ahmad Hoseini. The holotype female and one paratype female, four allotype males are deposited in the Collection of the Acarology Laboratory, University of Bu-Ali Sina, Hamedan, Iran. One paratype female, one male slide is deposited in the mite Section of National Collection of Arachnida, Plant Protection Research Institute, Pretoria, South Africa.

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