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A New Species of the Ant Genus Epitritus Emery (Hymenoptera: Formicidae) from China

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Abstract: A new species of the ant genus Epitritus Emery, E. dayui sp. nov., is collected in Xishuangbanna Nature Reserve, Yunnan Province, China. Up to date, 4 species of the genus are known in China: E. hexamerus Brown, E. formosus Terayama, Lin et Wu, E. hirashimai Ogata, and E. dayui sp. nov. A key based on worker and female castes is proposed for the 4 known species of Epitritus of East Asia.

Key words: Hymenoptera, Formicidae, Epitritus, new species, Yunnan, China CLC number: Q969. 554. 2 Document code: A

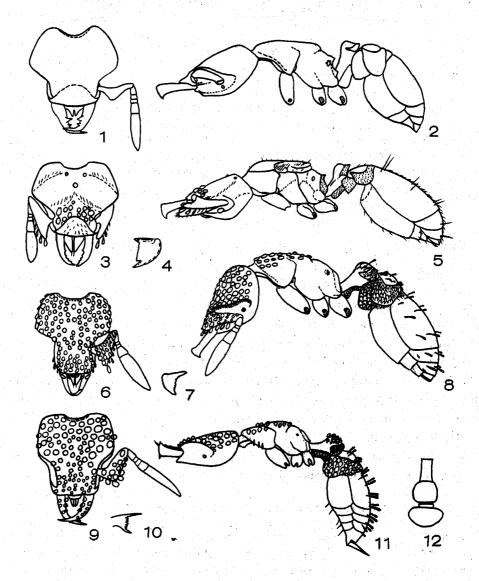
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The ant genus Epitritus Emery is distributed in the Old World Tropics and Temperate. According to Bolton (1995), 8 species are recorded in the world; 4 from Africa, 1 from Europe, 3 from Asia. Terayama et al. (1995) described another new species of the genus, E. formosus, from Taiwan of China and reported the distribution of E. hirashimai Ogata in Taiwan as a new record. At the end of 1995, 3 species are known in East Asia; E. hexamerus Brown from Japan, South Korea and Taiwan of China (Ogata et al., 1992), E. hirashimai Ogata from Japan (Ogata, 1990) and Taiwan of China, E. formosus Terayama, Lin et Wu from Taiwan of China. During the study of ant biodiversity of Xishuangbanna Nature Reserve of Yunnan Province, an Epitritus species new to science is discovered and described. Up to date, 4 species of the genus are known in China.

Standard measurements, indices and their abbreviations are as defined in Bolton (1983). The type specimen is deposited in the Insect Collection, Southwest Forestry College, Kunming, Yunnan Province, P. R. China.

Key to species of Epitritus of China (worker and female castes)

- 2. Inner margin of mandible armed with 2 spine—like teeth. Subbasal lobe of antennal scape formed an obtuse angle (Figs. 1~2) (China: Taiwan; South Korea; Japan) E. hexamerus Brown Inner margin of mandible armed with 4 tiny denticles. Subbasal lobe of antennal scape formed an acute



Figs. 1~12 Epitritus workers and females

1~2. E. hexamerus Brown, worker, 3~5. E. formosus Terayama, Lin et Wu, female, 6~8. E. hirashimai Ogata, worker, 9~12. E. dayui sp. nov., worker. 1, 3, 6, 9. Head in full face view, 2, 5, 8, 11. Body in profile view, 4, 7, 10. Apex of mandible in front view, 12. Petiole and postpetiole in dorsal view. 1~2. After Ogata and Onoyama (1992), 3~5. After Terayama et al. (1995), 6~8. After Ogata (1990). Pilosity omitted from figs. 1~2

Epitritus dayui, sp. nov. (Figs. 9~12)

Holotype worker: TL 2.6, HL 0.63, HW 0.60, CI 96, SL 0.28, SI 46, PW 0.33, AL 0. 70, ED 0. 04. Head about as broad as long, anterior half distinctly narrower than the posterior half. Occipital margin roundly incised in the middle. Occipital corners rounded. Mandibles slender and roundly curved, masticatory margin with 7 teeth, the basal and apical teeth elongate and spine-like, the basal tooth about as long as the width of the masticatory margin, the apical tooth about as long as half length of the basal one. The other 5 teeth between the basal and apical ones minute. Labrum visible, anterior margin with a pair of cone-like projections. Anterior margin of clypeus nearly straight, slightly convex in the middle. Antenna with 6 segments. Scape depressed, subbasal lobe nearly formed a right angle. The 3rd and 4th segments small and about equal, length of the two segments combined about equal to length of the 2nd and 5th ones. The apical segment very long, about 1.5 times as long as the rest of the flagellum. Eye minute, with 4 facets. Promesonotum relatively flat, mesonotum rounded and lowered down posteriorly. Promesonotal suture fine and distinct. Metanotal groove shallowly depressed. Propodeum slope-like and weakly convex. Propodeal lobe blunt at apex. Dorsum of petiolar node roundly convex. Dorsum of postpetiolar node evenly convex. In dorsal view, petiolar node about square, postpetiolar node broader than long and about semicircular, petiolar node width postpetiolar node width = 2:3. Lateral sides of declivity of propodeum with spongiform longitudinal ridges. Ventral face of petiole, ventral and posterior faces of postpetiole with spongiform appendage. Head, alitrunk and petiolar node densely and finely punctured, dim. Lateral sides of mesonotum and metanotum, postpetiolar node and gaster smooth and shining. Head, mandibles, scapes, alitrunk, petiolar node, dosa of femora and tibiaewith circular or subcircular flattened hairs. Lateral sides of pronotum, postpetiolar node and gaster with clavate hairs. Ventral face of head, mandibles, flagella, legs and ventral face of gaster with dense decumbent pubescence. Body in color yellowish brown, gaster dark yellowish brown.

Holotype: worker, No. A97-2677, 1380m, monsoon evergreen broad-leaf forest, Nangongshan Mountain, Mengla County, Yunnan Province, $16-\mathbb{K}-1997$, coll ected by XU Zhenghui.

This new species is close to *E. hirashimai* Ogata, but mandible with slender spine-like teeth, the basal tooth as long as width of masticatory margin; subbasal lobe of antennal scape formed a right angle; in profile view dorsum of alitrunk strongly convex.

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中国圆鳞蚁属一新种记述 (膜翅目:蚁科)

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在中国云南省西双版纳自然保护区采集到圆鳞蚁属 Epitritus Emery 1新种:大禹圆鳞蚁 E. dayui sp. nov.。至此中国已知该属昆虫4种:六节圆鳞蚁 E. hexamerus Brown,台湾圆鳞蚁 E. formosus Terayama,Lin et Wu,平岛圆鳞蚁 E. hirashimai Ogata 和大禹圆鳞蚁 E. dayui sp. nov.。文中编制了中国圆鳞蚁属4 个已知种工蚁和雌蚁分种检索表。模式标本保存于西南林学院资源学院昆虫标本室。

大禹圆鳞蚁 Epitritus dayui, 新种 (图9~12)

正模:工蚁,NoA97-2677,1380 m,云南省勐腊县南贡山,季风常绿阔叶林,1997-区-16,徐正会。本新种与平岛圆鳞蚁 E. hirashimai Ogata (图6~8)接近,但上颚具细长的刺状齿,基齿长度与咀嚼缘宽度相等;触角柄节亚基叶形成一直角;侧面观胸部背面强烈隆起。

关键词:膜翅目 蚁科 圆鳞蚁属 新种 中国 云南