



A new species of *Choristoneura* Lederer, with a key to the species from China (Lepidoptera: Tortricidae: Tortricinae)

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Choristoneura was proposed by Lederer (1859), with *Tortrix diversana* Hübner as its type species. Razowski (1992) provided a contemporary synopsis of the genus from a global perspective, including 41 species. Brown (2005) included 38 species in the genus, with 20 described from the Palearctic Region, 17 from the Nearctic Region, and one from the Afrotropical Region. The larvae of some species of *Choristoneura* are important forest pests. In North America, *C. fumiferana* (Clemens), the spruce bud worm, feeds on *Picea glauca* (Moench) Voss and numerous other Pinaceae (e.g., Prentice, 1966; Thomas, 1987; Lawrence *et al.*, 1997; Trier and Mattson, 1997; Retnakaran *et al.* 1999). In Europe, *C. murinana* is a pest of *Abies alba* Miller (e.g., Merle *et al.*, 1992). And in northwestern China, *C. diversana* (Hübner) attacks *Picea crassifolia* Kom. (Hao *et al.*, 2002).

Razowski (1984) recorded four species of *Choristoneura* from China. Seven species were included by Liu and Li (2002) in their treatment of the tortricids of China. Byun (2003) reported *C. evanidana* (Kennel) as new to China, but this species previously was reported by Razowski (1984, 1992). Based on these published accounts, a cumulative total of nine species of *Choristoneura* has been recorded from China. During our study of tortricids collected in Fujian Province, a new species belonging to this genus was recognized, and we take this opportunity to describe it herein. A key to the Chinese species of *Choristoneura* is provided.

Morphological terminology follows Horak (1984); methods of genitalia dissection follow Li & Zheng (1996). Images of the adult and genitalia were captured using a Nikon Coolpix 4500 digital camera. The type series is deposited in the Insect Collection, College of Life Sciences, Nankai University, Tianjin, China.

Key to the species of *Choristoneura* from China

1. Forewing without conspicuous pattern 2
 - Forewing with conspicuous pattern 3
2. Uncus with distal half conspicuously expanded, rounded apically *C. expansiva* sp. nov.
 - Uncus slender, without distal expansion *C. luticostana* (Christoph)
3. Male forewing without costal fold 4
 - Male forewing with costal fold 7
4. Forewing pattern distinct 5
 - Forewing pattern indistinct 6
5. Forewing scattered with short strigulae; uncus with distinctly expanded part *C. diversana* (Hübner)
 - Forewing with few short strigulae; uncus without expanded part *C. murinana* (Hübner)
6. Forewing whitish gray; uncus short; socius small; transtilla narrow; sacculus with prominence ventrally; aedeagus with a ventral acute dent apically *C. thyrsifera* Razowski
 - Forewing brown; uncus slender; socius large; transtilla broad; sacculus smooth ventrally; aedeagus with some small dentate apically *C. metasequoiacola* Liu
7. Male forewing with short costal fold, not exceeding middle of costa *C. evanidana* (Kennel)
 - Male forewing with long costal fold, exceeding middle of costa 8
8. Costal fold of male forewing broad and from basal 1/5 to 2/3 of wing; forewing with a large black blotch near base;