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## ***Sychentia hainanensis* sp. n., the first record of the genus from China, with notes on the morphology and biogeography (Hemiptera: Cicadellidae)**

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### **Abstract**

*Sychentia hainanensis* sp. n. is described and illustrated from Hainan Island, representing the first record of the genus from China and the second known species of the genus. The morphology and biogeography of the genus *Sychentia* Wei & Webb and related genera are discussed.

### **Introduction**

Stegelytrinae Baker (= Stegelytrini *sensu* Zahniser & Dietrich, 2010) is a small but morphologically diverse subfamily of the Cicadellidae, among which most species generally are rare in collections (Wei *et al.*, 2010). This subfamily occurs mainly in the Palaearctic and the Oriental regions, with just one endemic genus and species, *Neophansia wallacei* Wei & Webb, currently known from New Guinea in the Australian Region (Wei *et al.*, 2010). The stegelytrine biodiversity of the Oriental Region is higher than in the Palaearctic Region, and the Indochinese Peninsula is known as the distribution center with the highest stegelytrine biodiversity at both generic and species levels (Wei *et al.*, 2012).

Hainan Island is one of the biodiversity hotspots in China, and three stegelytrine species, *Minucella leucomaclata*, *Pachymetopius dentatus*, *Quiontugia fuscomaculata*, have been known from this island (Wei *et al.*, 2010; Wei *et al.*, 2012). Based on a five-year-investigation of the insect fauna of this island, from May of 2007 to June of 2011, one new species of the genus *Sychentia* Wei & Webb is described for Stegelytrinae in the present paper, which further broadens the diverse subfamily with respect to both morphology and biogeography.

### **Material and methods**

External morphology was observed using a Motic SMZ 168-BL microscope. The male genitalia were dissected out, treated with 10% KOH solution at approximately 80°C for several minutes, rinsed with water, immersed in droplet of glycerol and observed using a compound light microscope (Nikon Eclipse 50i). Photos were taken using a Scientific Digital micrography system equipped with an Auto-montage imaging system and a QIMAGING Retiga 4000R digital camera (CCD). The terminology of setal rows on legs follows Rakitov (1997).

Type specimen of the new species is deposited in the Northwest A&F University, Yangling, China (abbreviated in the text as NWAUFU).

### **Subfamily Stegelytrinae Baker**

**Stegelytria** Baker, 1915: 50; Baker, 1919: 210; Evans, 1947: 214; Metcalf, 1964: 90

**Stegelytrinae**, Ribaut, 1952: 12, 319; Nielson, 1975: 11; Oman, Knight & Nielson, 1990: 181; Wei, Webb & Zhang, 2010: 24