

生命科学

## 黄脸油葫芦的鸣声结构及行为分析(直翅目: 蟋蟀总科)

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收稿日期 2008-10-8 修回日期 2008-12-30 网络版发布日期 2009-11-24 接受日期 2009-3-3

**摘要** 研究了黄脸油葫芦 *Teleogryllus emma* (Ohmachi and Matsumura, 1951) 的多种行为模式, 并对其鸣声结构进行了分析. 其行为模式包括取食、清理、避敌、交配和鸣叫等, 鸣声包括召唤声、求偶声和争斗声. 鸣声时域特征结果表明黄脸油葫芦的鸣声一般由主音和陪音构成, 召唤声和求偶声均具有主音和陪音, 求偶声相对召唤声而言, 陪音部分较长, 而争斗声只具有主音部分; 鸣声频域特征表明争斗声的频率高于其他两类鸣声的频率.

**关键词** [直翅目](#); [蟋蟀总科](#); [黄脸油葫芦](#); [行为](#); [鸣声结构](#)

分类号 [Q969](#)

## Cricket song structure analysis and the behavior observation of *Teleogryllus emma* (Orthoptera: Grylloidea) (Chinese)

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### Abstract

The behaviors of *Teleogryllus emma* (Ohmachi and Matsumura, 1951) were reported and the characteristics of their songs were analyzed. The behaviors included feeding, cleaning, avoiding, mating and singing. The songs contained calling song (CS), courtship song (CtS) and rival song (RS). The results of time domain characteristics showed that the songs contained dominant tone and subordinate tone. both CS and CtS included two kinds of tones, while the subordinate tone of CtS is longer than the one of CS. RS contained only the dominant tone. The results of frequency domain characteristics analysis showed that the frequency of rival song was higher than the ones of CS and CtS.

**Key words** [Orthoptera](#) [Grylloidea](#) [Teleogryllus emma](#) [behavior](#) [sound structure](#)

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