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## 【Scientific note】

### 美洲蜚蠊對其性費洛蒙蜚蠊酮乙的引誘反應【科學短訊】

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Received:    Accepted:    Available online: 1981/03/01

## Abstract

### 摘要

有機合成的蜚蠊酮乙不但可以刺激雄性美洲蜚蠊的性反應，同時還可在台北的米倉內引誘牠們。無論是在冬天或夏天，蜚蠊酮乙都可以引誘到較多的雄性，如用雄雌的比來表示時，雄/雌值隨著蜚蠊酮乙的濃度增加而增加。本文同時解釋應用其他化學物質時，雌性成蟲及幼蟲被引誘的可能原因。

### Key words:

### 關鍵詞:

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## ATTRACTION RESPONSES OF THE AMERICAN COCKROACH TO SYNTHETIC PERIPLANONE-B

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### ABSTRACT

Synthetic periplanone-B has been shown not only to be a sex excitant to male *Periplaneta americana* by bioassay in the laboratory but also an attractant pheromone by field tests in a rice storage house in Taipei. During both summer and winter months, it attracted significantly more adult males into the traps used in the experiments than adult females. There is a statistically significant increase in the sex ratio (male-female) of the trapped adults with increase in periplanone-B used. An attempt has been made to explain the trapping of females and nymphs in addition to males by the chemicals used in our tests.

## 美洲蜚蠊對其性費洛蒙蜚蠊酮乙的引誘反應

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Note: The full paper of this abstract is published in *J. Chemical Ecology*, 7(2): 265-272., 1981.