

研究简报

## 高山地区甘蓝田节肢动物群落特征

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**摘要** 对湖北省高山地区自然天敌控制害虫的甘蓝田的节肢动物群落结构进行了研究. 结果表明: 自然天敌控制害虫的甘蓝田内害虫优势种为小菜蛾 (*Plutella xylostella*)、甘蓝蚜 (*Brevicoryne brassicae*) 和甘蓝夜蛾 (*Mamestra brassicae*); 天敌优势种为菜蚜茧蜂 (*Diaeretiella rapae*)、菜蛾绒茧蜂 (*Cotesia plutella*)、草间小黑蛛 (*Erigonidum gramiacolum*) 和大灰食蚜蝇 (*Syrphus corollae*). 害虫及天敌亚群落物种的丰富度、多样性、均匀度及集中性在时间序列上有变化; 害虫亚群落优势集中性高, 优势种突出, 群落多样性及均匀性指数较低, 天敌亚群落的多样性和均匀性指数较高, 优势集中性较低, 群落相对比较稳定. 经聚类分析, 害虫和天敌亚群落的14个时序群落分别被划分为4类和3类.

**关键词** [节肢动物](#) [群落结构](#) [聚类分析](#) [高山甘蓝田](#)

分类号

## Characteristics of arthropod community in alpine cabbage fields

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### Abstract

The study on the community structure of arthropod in the alpine cabbage fields of Hubei Province showed that the dominant pests were *Brevicoryne brassicae*, *Mamestra brassicae* and *Plutella xylostella*, while the dominant natural enemies were *Diaeretiella rapae*, *Cotesia plutella*, *Erigonidum gramiacolum* and *Syrphus corollae*. The richness, diversity index, evenness index and dominance index of pest and natural enemy sub-communities all changed with time. The dominance index of pest sub-community was higher, while its diversity and evenness indices were lower than those of natural enemy sub-community. Based on fuzzy clustering analysis, the pest and natural enemy sub-communities of 14 time sequences were grouped into 4 and 3 sorts, respectively.

**Key words** [arthropod](#) [community structure](#) [fuzzy clustering analysis](#) [alpine cabbage field](#)

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