

论著

## 淡色库蚊氯菊酯抗性品系和敏感品系的生物学特性

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摘要

目的 比较淡色库蚊氯菊酯抗性品系和敏感品系生物学特性的差异。方法 在实验室观察淡色库蚊氯菊酯抗性品系及敏感品系的吸血、繁殖和发育等生物学特性,构建实验种群生命表。结果 淡色库蚊氯菊酯抗性品系吸血率低于敏感品系,卵、幼虫和蛹的发育历期及成虫寿命均长于敏感品系,卵期死亡率高于敏感品系。以上各项,两种品系间差异均具有显著性意义( $P < 0.01$ )。抗性品系相对于敏感品系的适合度为 0.58。结论 淡色库蚊氯菊酯抗性品系表现出对生长发育和繁殖的不利性。

关键词 [淡色库蚊](#) [氯菊酯](#) [抗药性](#)

分类号

## Study on the Biological Characteristics of Permethrin-Resistant and Susceptible Strains of *Culex pipiens pallens*

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Abstract

Objective To compare the biological characteristics of *Culex pipiens pallens* between permethrin-resistant strain and the susceptible strain. Methods In laboratory, the biological characteristics about bloodsucking, reproduction and development of permethrin-resistant and susceptible strains were observed and recorded. Life table of the experimental populations was constituted. Results The bloodsucking rate of resistant strain was lower than susceptible strain and the difference was significant. The life-span of adults of resistant strain and the developmental duration of eggs, larvae and pupae were longer than susceptible strain and the difference was significant. The death rate of eggs of resistant strain was higher than that of susceptible strain and the difference was significant. The permethrin-resistant strain showed a fitness value of 0.58 relative to the susceptible strain. Conclusion The permethrin resistance of *Culex pipiens pallens* may result in a disadvantage to its reproduction and development.

Key words [Culex pipiens pallens](#) [Permethrin](#) [Drug resistance](#)

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