

中国媒介生物学及控制杂志 » 2014, Vol. 25 » Issue (4): 330-332 DOI: 10.11853/j.issn.1003.4692.2014.04.012

论著

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

« 前一页 | 后一页 »

湖南省部分地区2011年致倦库蚊和家蝇抗药性研究

姚松银, 黄谊, 段丽琼, 吕炜

湖南省疾病预防控制中心病媒生物控制科, 长沙410005

Insecticide resistance of *Culex pipiens quinquefasciatus* and *Musca domestica* in some areas of Hunan province, China in 2011

YAO Song-yin, HUANG Yi, DUAN Li-qiong, LYU Wei

Hunan Center for Disease Control and Prevention, Changsha 410005, Hunan Province, China

[摘要](#)

[图/表](#)

[参考文献](#)

[相关文章 \(15\)](#)

全文: [PDF](#) (382 KB) [HTML](#) (1 KB)

输出: [BibTeX](#) | [EndNote](#) (RIS)

摘要 目的 了解湖南省长沙、益阳、岳阳市蚊、蝇对高效氯氰菊酯、溴氰菊酯、仲丁威、双硫磷、敌敌畏和残杀威6种常用杀虫剂的抗药性情况,为蚊、蝇防治提供科学依据。方法 蚊虫抗药性检测采用幼虫浸渍法,家蝇采用点滴法。结果 致倦库蚊对溴氰菊酯、高效氯氰菊酯、仲丁威、双硫磷的抗性倍数分别为1.14~2.86、2.25~6.75、1.00~17.24和25.00~65.00倍,均已产生抗性,其中对双硫磷抗性最高;家蝇对溴氰菊酯、高效氯氰菊酯、敌敌畏、残杀威的抗性倍数分别为36.13~109.13、28.46~32.81、1.43~2.25和0.82~2.34倍,亦均产生抗性,其中对菊酯类药物抗性较高,抗性倍数最高的达109.13倍。结论 各地应高度重视蚊、蝇对杀虫剂的抗药性;加强抗性监测,合理地使用杀虫剂,预防或减缓蚊、蝇对杀虫剂抗性的产生和发展。

关键词 : 致倦库蚊, 家蝇, 抗药性, 浸渍法, 点滴法

Abstract : **Objective** To investigate the resistance of *Culex pipiens quinquefasciatus* and *Musca domestica* to commonly used insecticides in Changsha, Yiyang, and Yueyang, Hunan province, China in 2011, and to provide a scientific guidance for the management of mosquitoes and houseflies. **Methods** The resistance of mosquitoes and houseflies to insecticides was determined by larval immersion and topical application, respectively. **Results** *Cx. pipiens quinquefasciatus* showed resistance to all insecticides tested with the following resistance ratios: 1.14-2.86 fold to deltamethrin, 2.25-6.75 fold to beta-cypermethrin, 1.00-17.24 fold to fenobucarb, and 25.00-65.00 fold to temephos, of which temephos resistance was the highest. *Musca domestica* was also resistant to all insecticides tested in this study, with resistance ratios as follows: 36.13-109.13 fold to deltamethrin, 28.46-32.81 fold to beta-cypermethrin, 1.43-2.25 fold to DDVP, and 0.82-2.34 fold to propoxur; the resistance to chrysanthemum ester was the highest, with a peak value of 109.13 fold. **Conclusion** More efforts should be made to the resistance of *Cx. pipiens quinquefasciatus* and *M. domestica* to insecticides. It is necessary to enhance resistance monitoring and to use insecticides rationally, so as to prevent and reduce the development of pesticide resistance.

Key words : *Culex pipiens quinquefasciatus* *Musca domestica* Insecticide resistance Immersion method Dropping method

收稿日期: 2014-02-25

PACS: R384.1

R384.2

S481+4

作者简介: 姚松银,男,侗族,技师,主要从事病媒生物防制研究工作,Email: yaosongyin520@163.com

引用本文:

姚松银,黄谊,段丽琼,吕炜. 湖南省部分地区2011年致倦库蚊和家蝇抗药性研究[J]. 中国媒介生物学及控制杂志, 2014, 25(4): 330-332. YAO Song-yin, HUANG Yi, DUAN Li-qiong, LYU Wei. Insecticide resistance of *Culex pipiens quinquefasciatus* and *Musca domestica* in some areas of Hunan province, China in 2011. *Chines Journal of Vector Biology and Control*, 2014, 25(4): 330-332.

链接本文:

<http://www.bmsw.net.cn/CN/10.11853/j.issn.1003.4692.2014.04.012> 或 <http://www.bmsw.net.cn/CN/Y2014/V25/I4/330>

服务

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [加入引用管理器](#)
- ▶ [E-mail Alert](#)
- ▶ [RSS](#)

作者相关文章

- ▶ [姚松银](#)
- ▶ [黄谊](#)
- ▶ [段丽琼](#)
- ▶ [吕炜](#)

51La

版权所有 © 《中国媒介生物学及控制杂志》编辑部

地址: 北京昌平区昌百路155号 电话: 010-58900731 Email: bingmei@icdc.cn
 本系统由北京玛格泰克科技发展有限公司设计开发 技术支持: support@magtech.com.cn
 京ICP备11024750号-10