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应用多重PCR法分析西藏察隅疟疾流行区按蚊吸血习性

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Investigation on Blood-sucking Habit of *Anopheles* (Diptera: Culicidae) Using Multiplex Polymerase Chain Reaction in Malaria-Endemic Area of Chayu County, Tibet

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Supporting Info

摘要

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摘要目的 用多重PCR法分析西藏疟疾流行区察隅县常见按蚊的吸血习性,为下一步研究传疟媒介提供参考。 方法 2011年7~8月选择察隅县不同生态环境的3个自然村(日玛村、塔玛村和京都村),每个村在人房和畜舍选择8个点,采用诱蚊灯全通宵(20: 00至次日08: 00)诱捕法捕捉按蚊,次日清晨收集诱捕的蚊虫,经形态学鉴定蚊种,分析按蚊组成。收集饱血按蚊,分别提取单只蚊胃血的DNA,采用基于不同动物mtDNA?鄄cytb序列差异的多重PCR法鉴定各蚊胃血源,计算人血指数,分析按蚊的吸血习性。 结果 共捕获按蚊1 442只,经形态学鉴定,多斑按蚊种团占99.6%(1 436/1 442),带足按蚊和腹簇按蚊占0.4%(6/1 442)。多斑按蚊种团中,伪威氏按蚊占85.5%(1 228/1 436),威氏按蚊占14.5%(208/1 436)。用多重PCR检测202只多斑按蚊种团(伪威氏按蚊188只和威氏按蚊14只)的饱血蚊胃血,结果显示,伪威氏按蚊兼吸牛/猪血和人血,人血指数为0.35,威氏按蚊吸食猪血和人血,人血指数为0.29。 结论 西藏察隅县2种常见按蚊(伪威氏按蚊和威氏按蚊)均兼吸人畜血,伪威氏按蚊的人血指数较高。

关键词: 西藏察隅县 疟疾 按蚊 多重PCR 人血指数

Abstract: Objective To determine the blood-sucking habit of anopheline by mosquitoes bloodmeal identification in malaria endemic area Chayu County, Tibet Autonomous Region. Methods Three villages with different bio-environments were selected as the investigation spots. Light traps were set up outdoor and in livestock sheds from sunset (20 : 00) to sunrise (8 : 00) in 3-4 consecutive nights to collect mosquitoes. The trapped anophelines were counted and identified according to morphological criteria and multiple PCR method. A PCR-based methodology according to the mtDNA-cytb variations was used in different mammal hosts to identify bloodmeal sources in engorged mosquitoes. The human blood index (HBI) was assessed to determine the range of hosts. Results Among 1 442 anopheline mosquitoes collected by 108 lighttraps on 13 nights. 1 436 (99.6%) belonged to *Anopheles maculatus* complex, with 85.5% *An. pseudowillmori* and 14.5% *An. willmori*. Positive bloodmeal identification was found from 168 (83%) of 202 field-collected engorged mosquitoes. The crude HBI of An. pseudowillmori and An. willmori were 0.35 and 0.29, respectively. Conclusion *An. pseudowillmori* and *An. willmori* are both zoophilic and anthropophilic, and An. pseudowillmori shows a higher HBI.

Keywords: Tibet Chayu county Anopheles Multi-PCR Human blood index

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GUO Chao-Hua1, ZHOU Shui-Sen1 *, HUANG Fang1, ZHENG Xiang1, WU Song2, ZHOU Hua-Yun3, ZHUO Ma-Yang-Jin4.Investigation on Blood-sucking Habit of Anopheles (Diptera: Culicidae) Using Multiplex Polymerase Chain Reaction in Malaria-Endemic Area of Chayu County, Tibet[J] , 2012, V30(2): 122-126

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