

论著

广西凭祥一株食蟹猴疟原虫生物学特性的研究

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摘要

目的: 观察1991年10月在中越边境广西凭祥购买的1只野生食蟹猴(M4)体内发现的疟原虫。方法: 将疟原虫血传给健康的切脾猴(M6), 在猴体内的疟原虫配子体在64个/100WBC时, 给大劣按蚊叮咬感染, 确定孢子增殖期, 当蚊唾腺发现孢子时, 阳性蚊叮咬健康的猴(M5)后第8天开始采血观察, 确定红前期的时间。血内发现疟原虫后开始每4 h采血1次的定时观察, 确定红内期裂体增殖周期及红内期各期疟原虫形态特征。结果: 该株猴疟原虫的孢子增殖期为11 d, 红前期为8 d, 红内期的裂体增殖周期为48 h。早晚期滋养体与间日疟原虫形态相似, 被晚期滋养体寄生的红细胞明显胀大, 阿米巴样活动明显, 可见薛氏小点, 成熟的裂殖体内通常可见裂殖子10—15个。结论: 试验结果证实, 该株猴疟原虫为食蟹猴疟原虫并定名为CVH株(*Plasmodium cynomolgi* CVH)。

关键词 [食蟹猴疟原虫](#) [大劣按蚊](#) [猴疟食蟹猴](#)

分类号

STUDIES ON BIOLOGICAL CHARACTERISTICS OF A SPECIES OF *PLASMODIUM CYNOMOLGI* IN PINGXIANG, GUANGXI

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Abstract

AIM: To observe the biological characteristics of a species of *Plasmodium cynomolgi* isolated from a wild-caught, naturally infected monkey *Macaca irus* (M4) at Pingxiang, Guangxi near the border between China and Vietnam in October 1991. METHODS: An uninfected splenectomized monkey (*Macaca assamensis*) M6 was inoculated iv with blood from M4. Nine days later, when M6 was found harboring gametocytes at a concentration of 64 per 100 leucocytes, M6 was exposed to the bite of uninfected *Anopheles dirus*. On day 14 after the level of sporozoites in the salivary gland of *An. dirus* reached a high peak, the infected *An. dirus* was allowed to bite M5, a healthy, uninfected monkey (*Macaca assamensis*). On day 8 following infection, blood was taken from M5 twice a day and examined for malaria parasites. RESULTS: In terms of the appearance of a few rings in blood, the incubation period is 8 days. At a temperature of about 26 °C and a relative humidity of 75%, oocysts reached maturity on day 11, and the sporogony was 11 days. The young trophozoites of *Plasmodium cynomolgi* were indistinguishable from those of *Plasmodium vivax*. The typical parasites were similar to other simian parasites of *Plasmodium cynomolgi*. There were Schüffner's dots in infected erythrocytes. The schizogony occurred every 48 hours. The mature schizonts had a large number of merozoites, the number being 10- 15. CONCLUSION: The malaria parasite described in the present paper was designated *Plasmodium cynomolgi* CVH (China, Vietnam and Huang) strain.

Key words [Plasmodium cynomolgi](#) [Anopheles dirus](#) [simian malaria](#) [Macaca irus](#)

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