



### 恶性疟原虫含s48/45结构域蛋白家族的研究进展

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### Research Advances in s48/45 Protein Family of Plasmodium falciparum

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摘要

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摘要 s48/45结构域表现为β三明治结构, 一般含有6-半胱氨酸(6-Cys)。含s48/45结构域的蛋白存在于疟原虫发育阶段的各个时期, 而且在虫体入侵宿主细胞的过程中发挥重要作用。根据蛋白分子的特征和功能, 发现s48/45蛋白家族可作为恶性疟原虫不同时期(如蚊期、红细胞外期和红细胞内期)的疫苗候选分子。本文主要阐述了恶性疟原虫含s48/45结构域蛋白家族的研究进展。

关键词: 疟疾 恶性疟原虫 s48/45结构域 半胱氨酸

Abstract: The s48/45 domain is a β-sandwich fold domain, and usually includes 6-cysteines. Proteins containing s48/45 domain exist in each developmental stages of Plasmodium parasite, and play an important role in the invasion into host cells. According to the features and functions of the protein molecule, members of the s48/45 protein family could be used as the vaccine candidates against Plasmodium falciparum in different stages. This article focuses on the research progress of P. falciparum protein family containing s48/45 domain.

Keywords: Malaria Plasmodium falciparum s48/45 domain Cysteine

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