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Review

Cytoadherence and sequestration in *Plasmodium falciparum*: defining the ties that bind

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Abstract

Infected erythrocytes containing the more mature stages of the human malaria *Plasmodium falciparum* may adhere to endothelial cells and uninfected red cells. These phenomena, called sequestration and rosetting, respectively, are involved in both host pathogenesis and parasite survival. This review provides a critical summary of recent advances in the characterization of the molecules of the infected red blood cell involved in adhesion, i.e. parasite-encoded molecules (PfEMP1, MESA, rifins, stevor, clag 9, histidine-rich protein), a modified host membrane protein (band 3) and exofacial exposure of phosphatidylserine, as well as receptors on the endothelium, i.e. thrombospondin, CD36, ICAM-1 (intercellular adhesion molecule), and chondroitin sulfate.



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Keywords

Cytoadherence; Sequestration; *Plasmodium falciparum*; Malaria; Erythrocyte

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