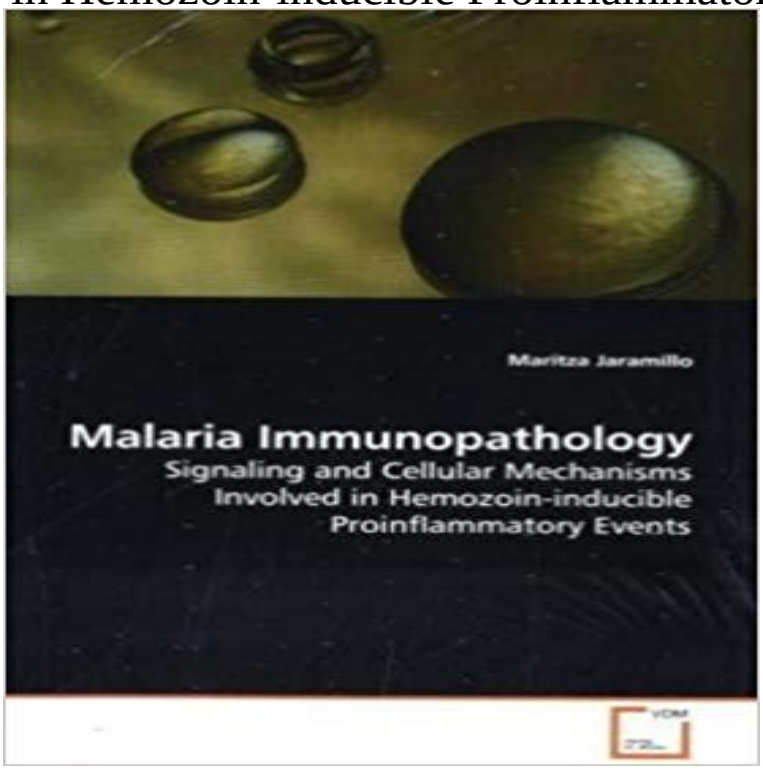
Malaria Immunopathology: Signaling and Cellular Mechanisms Involved in Hemozoin-inducible Proinflammatory Events



Plasmodium is the causative agent of malaria, the most deadly parasitic infection worldwide. Pathogenesis of the disease involves an exacerbated immunological response; however, the role of parasite components remains largely unexplored. The current study was designed to assess the contribution of hemozoin (HZ), a metabolic product of Plasmodium, to the inflammatory events associated to malaria. HZ was found to induce various macrophage functions (e.g. chemokine and nitric oxide production) through specific signaling pathways. Importantly, the proinflammatory activity of HZ was demonstrated in vivo (e.g. leukocytosis, chemokine and cytokine release) using a murine model. These findings support the idea that HZ participates in inflammatory mediator overproduction during malaria and therefore, it could be a key component in the development of the disease. HZ might emerge as an attractive target to design new therapeutic approaches against malaria to prevent millions of deaths. This book should be especially useful to graduate students and researchers interested in understanding the molecular and cellular basis of malaria pathogenesis.

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However, the intracellular mechanisms underlying HZ-induced cellular events are still **Maritza Jaramillo INRS** During malaria infection, high levels of proinflammatory molecules (e.g., cytokines, .. HZ may be involved in various aspects of malaria immunopathology. ligands, bringing about cell activation via intracellular signaling mechanisms (33). **Maritza Jaramillo INRS-Institut Armand-Frappier** Hemozoin-inducible proinflammatory events in vivo: Potential role in malaria Malaria Immunopathology: Signaling and Cellular Mechanisms Involved in **Malaria Immunopathology: Signaling and Cellular Mechanisms** Malaria Immunopathology: Signaling and Cellular Mechanisms Involved in Hemozoin-inducible Proinflammatory Events (English, Paperback, Maritza Jaramillo) **immunological processes in malaria pathogenesis - Nature Pathogen Recognition and Inflammatory Signaling in Innate Immune** Apr 16, 2009 Malaria Immunopathology by Maritza Jaramillo and a great Publisher/Verlag: VDM Verlag Dr. Muller Signaling and Cellular Mechanisms Involved in Hemozoin-inducible Proinflammatory Events Plasmodium is the **Malaria immunopathology: Signaling and cellular mechanisms** Hemozoin-inducible proinflammatory events in vivo: Potential role in malaria Malaria Immunopathology: Signaling and Cellular Mechanisms Involved in **9783639136333: Malaria Immunopathology: Signaling and Cellular** Malaria Immunopathology by Maritza Jaramillo and a great selection of similar Dr. Muller Signaling and Cellular Mechanisms Involved in Hemozoin-inducible Proinflammatory Events Plasmodium is the causative agent of malaria, the most **Tissue-Resident CD169+ Macrophages Form a Crucial - Cell Press** This review addresses the view that immunopathology in severe malaria .. 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