

## Review

# Emerging Molecular Mechanisms in Malaria Pathogenesis and Novel Therapeutic Approaches: A Focus on *P. falciparum* Malaria

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## Abstract

Malaria is still one of the biggest global health problems, especially in parts of the world, such as sub-Saharan Africa, which remains most heavily affected. Despite significant advancements in testing, treatment, and prevention, malaria continues to seriously impact millions, primarily young children and populations in rural and impoverished areas. This paper looks at how the malaria parasite works inside the body, how it avoids the immune system, and how it becomes resistant to current drugs. Thanks to new advances in genetic and biochemical research, scientists are discovering new weak points in the parasite that could lead to better treatments. New vaccines, like RTS, S and R21, along with antibody-based therapies, offer renewed hope; however, extending the duration of the immunity they induce and ensuring effectiveness across diverse parasite strains remain significant challenges. Solving the malaria crisis will require more than science—it also necessitates equitable and timely access to treatments, robust health systems, and international collaboration. Continued research and global cooperation bring the world closer to ending malaria for good.

**Keywords:** malaria; treatment; vaccine; elimination; omics



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## 1. Introduction

Malaria, also known as paludism, is an acute febrile disease caused by parasites of the genus *Plasmodium* that is transmitted to humans through the bite of a female mosquito of the genus *Anopheles* [1]. The disease causes an estimated 619,000 deaths annually [2].

Although malaria is a preventable and treatable disease, it remains a global public health problem with high mortality and morbidity rates [3]. Many cases of malaria deaths occur in Africa, most of whom are children [4]. According to the 2023 World Malaria Report, globally, 249 million cases of malaria were recorded in 85 endemic countries in 2022 [5]. However, in the Americas, a significant decrease in cases was observed, from 1.5 million in 2000 to only 0.6 million in 2022 [5]. This decline is attributed to increased diagnosis and treatment, as well as to lower population mobility due to the emergence

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development Overall this thesis provides research that will assist the malaria community in our fight against this disease

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