

Journal Of Malaria Research And Treatment

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Malaria is one of the most important tropical diseases in the history of the world. This vector-borne disease has been a significant cause of morbidity and mortality in tropical countries of Africa, Asia, and Latin America. As such, this book provides updated information on epidemiological and public health research of malaria conducted in the last decade. Over four sections, chapters discuss such topics as diagnosis, epidemiology and surveillance, policy and prevention, and vector control and vaccines.

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Parasitic Diseases: Advances in Research and Treatment: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Parasitic Diseases. The editors have built Parasitic Diseases: Advances in Research and Treatment: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Parasitic Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Parasitic Diseases: Advances in Research and Treatment: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

For more than 50 years, low-cost antimalarial drugs silently saved millions of lives and cured billions of debilitating infections. Today, however, these drugs no longer work against the deadliest form of malaria that exists throughout the world. Malaria deaths in sub-Saharan Africa "currently just over one million per year" are rising because of increased resistance to the old, inexpensive drugs. Although effective new drugs called "artemisinins" are available, they are unaffordable for the majority of the affected population, even at a cost of one dollar per course. Saving Lives, Buying Time: Economics of Malaria Drugs in an Age of

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Resistance examines the history of malaria treatments, provides an overview of the current drug crisis, and offers recommendations on maximizing access to and effectiveness of antimalarial drugs. The book finds that most people in endemic countries will not have access to currently effective combination treatments, which should include an artemisinin, without financing from the global community. Without funding for effective treatment, malaria mortality could double over the next 10 to 20 years and transmission will intensify.

Despite significant progress in the global fight against malaria, this parasitic infection is still responsible for nearly 300 million clinical cases and more than half a million deaths each year, predominantly in African children less than 5 years of age. The infection starts when mosquitoes transmit small numbers of parasites into the skin. From here, the parasites travel with the bloodstream to the liver where they undergo an initial round of replication and maturation to the next developmental stage that infects red blood cells. A vaccine capable of blocking the clinically silent liver phase of the Plasmodium life cycle would prevent the subsequent symptomatic phase of this tropical disease, including its frequently fatal manifestations such as severe anemia, acute lung injury, and cerebral malaria. Parasitologists, immunologists, and vaccinologists have come to appreciate the complexity of the adaptive immune response against the liver stages of this deadly parasite. Lymphocytes play a central role in the elimination of Plasmodium infected hepatocytes, both in humans and animal models, but our understanding of the exact cellular interactions and molecular effector mechanisms that lead to parasite killing within the complex hepatic microenvironment of an immune host is still rudimentary. Nevertheless, recent collaborative efforts have led to promising vaccine approaches based on liver stages that have conferred sterile immunity in humans – the

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University of Oxford's Ad prime / MVA boost vaccine, the Naval Medical Research Center's DNA prime / Ad boost vaccine, Sanaria Inc.'s radiation-attenuated whole sporozoite vaccine, and Radboud University Medical Centre's and Sanaria's derived chemoprophylaxis with sporozoites vaccines. The aim of this Research Topic is to bring together researchers with expertise in malariology, immunology, hepatology, antigen discovery and vaccine development to provide a better understanding of the basic biology of Plasmodium in the liver and the host's innate and adaptive immune responses. Understanding the conditions required to generate complete protection in a vaccinated individual will bring us closer to our ultimate goal, namely to develop a safe, scalable, and affordable malaria vaccine capable of inducing sustained high-level protective immunity in the large proportion of the world's population constantly at risk of malaria.

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A fascinating and shocking historical exposé, *The Malaria Project* is the story of America's secret mission to combat malaria during World War II—a campaign modeled after a German project which tested experimental drugs on men gone mad from syphilis. American war planners, foreseeing the tactical need for a malaria drug, recreated the German model, then grew it tenfold. Quickly becoming the biggest and most important medical initiative of the war, the project tasked dozens of the country's top research scientists and university labs to find a treatment to remedy half a million U.S. troops incapacitated by malaria. Spearheading the new U.S. effort was Dr. Lowell T. Coggeshall, the son of a poor Indiana farmer whose persistent drive and curiosity led him to become one of the most innovative thinkers in solving the malaria problem. He recruited private corporations, such as today's Squibb and Eli Lilly, and the nation's best chemists out of Harvard and Johns Hopkins to make novel compounds that skilled technicians tested on birds. Giants in the field of clinical research, including the future NIH director James Shannon, then tested the drugs on mental health patients and convicted criminals—including infamous murderer Nathan Leopold. By 1943, a dozen strains of malaria brought home in the veins of sick soldiers were injected into these human guinea pigs for drug studies. After hundreds of trials and many deaths, they found their “magic bullet,” but not in a U.S. laboratory. America's best weapon against malaria, still used today, was captured in battle from the Nazis. Called chloroquine, it went on to save more lives than any other drug in history. Karen M. Masterson, a journalist turned malaria researcher, uncovers the complete story behind this dark tale of science, medicine and war. Illuminating, riveting and surprising, *The Malaria Project* captures the ethical perils of

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seeking treatments for disease while ignoring the human condition.

Advances in Malaria Research John Wiley & Sons
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Thoroughly reviews our current understanding of malarial biology
Explores the subject with insights from post-genomic technologies
Looks broadly at the disease, vectors of infection, and treatment and prevention strategies
A timely publication with chapters written by global researchers leaders

Protozoan Infections—Advances in Research and Treatment:

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The World Health Organization's Global Technical Strategy for Malaria 2016- 2030 has been developed with the aim to help countries to reduce the human suffering caused by the world's deadliest mosquito-borne disease. Adopted by the World Health Assembly in May 2015 it provides comprehensive technical guidance to countries and development partners for the next 15 years emphasizing the importance of scaling up malaria responses and moving towards elimination. It also highlights the urgent need to increase investments across all interventions - including preventive measures diagnostic testing treatment and disease surveillance- as well as in harnessing innovation and expanding research. By adopting this strategy WHO Member States have endorsed the bold vision of a world free of malaria and set the ambitious new target of reducing the global malaria burden by 90% by 2030. They also agreed to strengthen health systems address emerging multi-drug and

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insecticide resistance and intensify national cross-border and regional efforts to scale up malaria responses to protect everyone at risk.

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Malaria is making a dramatic comeback in the world. The disease is the foremost health challenge in Africa south of the Sahara, and people traveling to malarious areas are at increased risk of malaria-related sickness and death. This book examines the prospects for bringing malaria under control, with specific recommendations for U.S. policy, directions for research and program funding, and appropriate roles for federal and international agencies and the medical and public health communities. The volume reports on the current status of malaria research, prevention, and control efforts worldwide. The authors present study results and commentary on the: Nature, clinical manifestations,

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diagnosis, and epidemiology of malaria. Biology of the malaria parasite and its vector. Prospects for developing malaria vaccines and improved treatments. Economic, social, and behavioral factors in malaria control.

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The Long Struggle against Malaria in Tropical Africa investigates the changing entomological, parasitological and medical understandings of vectors, parasites and malarial disease that have shaped the programs of malaria control and altered the transmission of malarial infections. It examines the history of malaria control and eradication in the contexts of racial thought, population movements, demographic growth, economic change, urbanization, warfare and politics. It will be useful for students of medicine and public health, for those who are involved with malaria research studies, and for those who work on the

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contemporary malaria control and elimination campaigns in tropical Africa.

Malaria is an infectious disease common to several parts of the world, including Africa, northern South America, and Asia. During their service in the military, U.S. active members may be sent to any part of the world, including parts of the world where Malaria is an issue. In Liberia in 2003, for example, there was a 28 percent attack rate in Marines who spent a short time ashore, and half of the 80 Marines affected needed to be evacuated to Germany. This was not only costly to the U.S. military but dangerous as well. To fight against this disease, there exists a Malaria Vaccine program in the U.S. military. However, there exists a variety of potential vaccine targets for the most severe and important form of malaria; malaria from the species *Plasmodium falciparum*. Issues also arise with the fact that there are three possible stages to create vaccines against-preerythrocytic, blood, or transmission. The Department of Defense (DoD), through the commanding general of the U.S. Army Medical Research and Materiel Command (USAMRMC), requested that the Institute of Medicine (IOM) conduct a programmatic review of the military *Plasmodium falciparum* malaria vaccine research and development program. There was to be a focus on vaccine against the preerythrocytic and blood stages. The IOM formed a committee of 11 experts with collective expertise in malaria vaccine research, parasite immunology, malarial biology, clinical trials and regulatory affairs, industrial and public-sector vaccine development, biologic products research and development (vaccinology), military research and development programs, tropical medicine, and public health. The committee focused different tasks including determining whether the DoD malaria vaccine research and development program is scientifically sound and able to achieve the vaccine program objectives within specified

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timelines, recommending how to overcome significant, identified barriers, and identifying major strategic goals and timelines based on the material received and presentations made by the DoD's program representatives. **Battling Malaria: Strengthening the U.S. Military Malaria Vaccine Program** presents the committee's findings, current malaria vaccines, and recommendations for the development of the U.S. Military vaccine research.

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A practical and evidence-based guide for student, pre-registration and qualified pharmacists *Symptoms in the Pharmacy* is an indispensable guide to the management of common symptoms seen in the pharmacy. With advice from an author team that includes both pharmacists and GPs, the book covers ailments which will be encountered in the pharmacy on a daily basis. Now in its sixth edition *Symptoms in the Pharmacy* has been fully revised to reflect the latest evidence and availability of new medicines. There are new sections and case studies for 'POM' to 'P' switches including chloramphenicol, sumatriptan, diclofenac, naproxen and amorolfine. This edition features colour photographs of skin conditions for the first time enabling the differentiation and diagnosis of common complaints. The public health and illness prevention content have been expanded to support this increasingly important aspect of the pharmacist's

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work. The book is designed for quick and easy reference with separate chapters for each ailment. Each chapter incorporates a decisionmaking framework in which the information necessary for treatment and suggestions on 'when to refer' is distilled into helpful summary boxes. At the end of each chapter there are example case studies providing the view of pharmacists, doctors and patients for most conditions covered. These easy-to-follow-chapters can be read cover to cover or turned to for quick reference. This useful guide should be kept close at hand for frequent consultation.

Fighting around the globe, American soldiers were at high risk for contracting malaria, yet quinine - a natural cure - became hard to acquire. This historical study shows the roots and branches of an enormous drug development project during World War II.

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Amebicides—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Despite extensive efforts to control it, malaria is still one of the most devastating infectious diseases worldwide. This book, now in its second edition, provides a broad and up-to-date overview of the rapidly expanding field of malaria immunology and its importance in the control of this disease. The first section deals with the malaria parasite and its interactions with both the vertebrate host and the mosquitoes which transmit the disease. In the second part, the mechanisms of immunity and their regulation by environmental and genetic factors are discussed. Finally, this volume contains several chapters on malaria vaccine development, describing the application of the most recent vaccine technologies as well as ongoing and planned vaccine trials. Authored by well-recognized experts, this volume not only demonstrates the rapid progress being made in the search for vaccines against malaria, but also broadens our

understanding of immunity to infection in general. It is therefore highly recommended reading for all scientists and professionals in the fields of immunology, infection and vaccine development. The malaria parasite life cycle is complex and includes an obligatory developmental stage in its mosquito vector host. This transition from human-host to mosquito-host to human-host involves multiple developmental stages and divergent host tissues. Over the years, the research focus on the asexual stage parasites, which causes the symptoms of the disease, has transitioned towards a renewed focus on the transmission forms (or gametocytes), the only stages transmittable to the mosquito vector through ingestion of an infected blood meal. Analysis of sporozoite-liver interactions that result in the establishment of parasitic infection in the mammalian host has become an important research focus, and we now have a greater appreciation of the fascinating development of the sporozoites of the mosquito midgut wall and its travel to the salivary glands prior to inoculation into the mammalian dermis. This Research Topic embraces the full transition of the malaria parasite between its two obligatory hosts in what is termed as “malaria transmission biology”. Of note are the critical, enabling technologies and experimental systems that have been developed over the recent decade and have opened up significant new avenues for

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exploring the multi-stage, and multi-step processes that comprise malaria transmission biology. From uncovering that gametocyte development occurs in the bone marrow to quantifying the influence of both human host metabolism and parasite genetics on mosquito infection, it is clear that malaria transmission biology has entered an exciting era of discovery. Importantly, recent maturation of humanized liver mice and more sophisticated in vitro platforms have allowed more accurate recapitulations of the mosquito-to-skin-to-liver stages of human malaria infection. This allows both observation and study of the biological nuances of parasite vector-to-mammalian host transmission as well as interventions which can inhibit or block this stage of transmission. Paired with observations from clinical trials and the field, we can better understand exactly which parameters in which systems are most relevant for translation and biology.

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