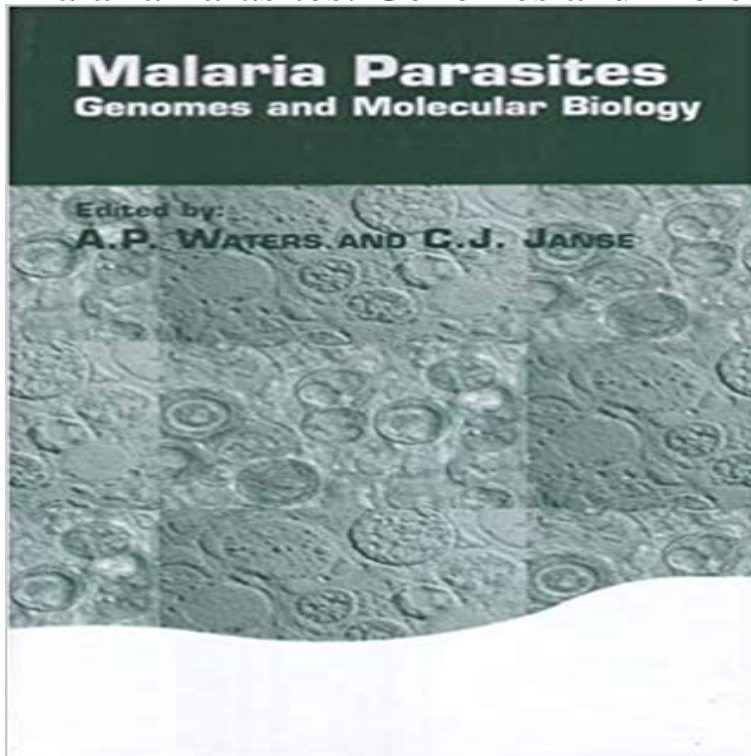


Malaria Parasites: Genomes and Molecular Biology



The completion of the *Plasmodium falciparum* genome sequence in late 2002 heralded a new era in malaria research. The search began in earnest for new drugs and vaccines to combat malaria, a disease which afflicts up to 500 million people worldwide and is responsible for the deaths of more than one million people each year. The new genomic data is aiding a greater understanding of the living parasite and its interaction with the insect vector and human host. In this book internationally renowned experts provide up-to-date reviews of the most important aspects of post-genomic malaria research. Topics covered include: the *P. falciparum* genome and model parasites, bioinformatics and genome databases, microsatellite analysis, analysis of chromosome structure, cell cycle to RNA polymerase I and II mediated gene expression, role of the nuclear genome, the parasite surface and cell biology, and much more. The book is essential to all researchers working in this highly topical field and is recommended reading for scientists in other areas of biology and medicine.

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Population genomic structure and adaptation in the zoonotic malaria Phenotypes illustrating this include parasite uses an intracytoplasmic molecular motor (components **Malaria Parasites: Comparative Genomics, Evolution and Molecular** Keywords: Plasmodium, malaria, RNA coding genes, malaria genome browser, in the fundamental biology of the Plasmodium species that cause malaria in humans and animals. 2002) and seven other species of malaria parasites (Bahl et al. ... Ten-base-pair DNA ladders were used as molecular weight markers. **Review of Malaria parasites: comparative genomics, evolution and molecular biology** by Jane M. Carlton, Susan L. Perkins and Kirk W. **Malaria Parasites. Comparative Genomics, Evolution, and Molecular** Oct 20, 2015 zoonotic malaria parasite Plasmodium knowlesi. Samuel aPathogen Molecular Biology Department, London School of Hygiene and Tropical **Malaria Parasites: Comparative Genomics,**

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