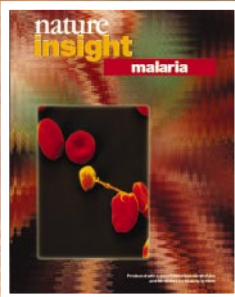


# nature insight

## malaria



**Cover illustration**  
Coloured scanning electron micrograph of a *Plasmodium falciparum* protozoan with red blood cells (courtesy of Eye of Science/SPL).

In any given year, nearly ten per cent of the global population will suffer from malaria — 500 million clinical cases — and more than 1 million will die as a result; a death from malaria every 30 seconds. In Africa, the disease kills one child in twenty before five years of age.

And things are getting worse, as malaria is undergoing a resurgence. The main contributing factors are the emergence of drug-resistant strains of the parasite, the appearance of mosquitoes (which transmit the parasite) that are resistant to insecticides, environmental changes and increased population.

After decades of relative lack of attention, growing international awareness and funding has led to new efforts towards controlling the disease. A wide-ranging coalition of interests is being marshalled to combat malaria, including: global healthcare planning, specifically the World Health Organization's 'Roll Back Malaria' campaign, which aims to halve the burden of disease by 2010; pharmaceutical industry support; research coordination, with the main funding agencies coming together in the Multilateral Initiative on Malaria; and philanthropy, most notably the Malaria Vaccine Initiative supported by the Bill and Melinda Gates Foundation.

While this points to an appropriate level of concern and urgency, the most critical challenge is to the researchers. Can they supply the knowledge and tools needed to combat this devastating disease? This Insight will go a long way to answering that question, describing latest research developments, likely future progress and the practical impact that the new knowledge will have.

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**Ursula Weiss** Senior Editor

### introduction:

- 670 Malaria in 2002**  
*B. Greenwood  
& T. Mutabingwa*

### review articles:

- 673 The pathogenic basis of malaria**  
*L. H. Miller, D. I. Baruch,  
K. Marsh & O. K. Doumbo*
- 680 The economic and social burden of malaria**  
*J. Sachs & P. Malaney*
- 686 Medical need, scientific opportunity and the drive for antimalarial drugs**  
*R. G. Ridley*
- 694 Progress and challenges for malaria vaccines**  
*T. L. Richie & A. Saul*
- 702 *Plasmodium*, human and *Anopheles* genomics and malaria**  
*S. L. Hoffman,  
G. M. Subramanian,  
F. H. Collins & J. C. Venter*
- 710 Satellite imagery in the study and forecast of malaria**  
*D. J. Rogers,  
S. E. Randolph,  
R. W. Snow & S. I. Hay*

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