Record Nr.	UNINA9910464968203321
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Titolo	Malaria Genome Projects [[electronic resource]] : promise, progress, and prospects / / Irwin W. Sherman
Pubbl/distr/stampa	London, : Imperial College Press
	Hackensack, NJ, : World Scientific, c2012
ISBN	1-283-59355-6
	9786613906007
	1-84816-904-3
Descrizione fisica	1 online resource (389 p.)
Disciplina	616.9362
Soggetti	Malaria - Molecular aspects
	Plasmodium falciparum - Genome mapping
	Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Dedication; Contents; Preface; Chapter 1. Introduction; Plasmodium discovered; Plasmodium transmitted; Plasmodium in hiding; Chapter 2. Respice: Before the Genome Project; Chapter 3. The Nature of Plasmodium falciparum and its Genome; A home for the genome; Location, location, location; The malaria genome capers; Chapter 4. Chipping Away at the Genome; Turning "on," turning "off"; Evasion; Chapter 5. The Importance of Import; Chapter 6. Remodeling the Genome's Home; Chapter 7. Getting on the Inside; Chapter 8. The Great Escape; Chapter 9. The Neglected Malaria, Plasmodium vivax; Resistance Secrets hidden in the genomeChapter 10. The Anopheles Genome and Transmission Control; Making mosquitoes immune; Making mosquitoes insecticide resistant; Replacement and/or reduction; Chapter 11. The Monkey's Tale; Chapter 12. A Not So Sweet Solution; Isoenzymes, the Achilles' heels of Plasmodium; Tackling the Krebs "cycle"; Chapter 13. To Search and Find; Rapid diagnostic tests; Nucleic acid-based tests; Loop-mediated isothermal amplification; Chapter 14. The Elusive Vaccines; Antigens before the genome; Two blood-stage vaccine

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	candidates; The road to merozoite surface protein The road to apical membrane antigen 1A failed promise, SPf66; Transmission-blocking vaccines; The sporozoite vaccine revisited; Development of the pre-blood-stage vaccine, RTS, S; Back to the future; Learning from the liver; Vaccine approaches before sequencing the genome; Vaccine approaches after sequencing the genome; Chapter 15. New Medicines, Old Problems; The old problem of resistance; Chloro quine; Resistance to anti-folate drugs; Mefloquine and multidrug resistance; The fall of mefloquine; Atovaquone; Artemisia to artemisinins; Chapter 16. Prospice: Looking to the Future; References Index
Sommario/riassunto	The year 2012 marks the tenth anniversary of the announcement of the genome sequence of the human malaria parasite Plasmodium falciparum and that of its mosquito vector Anopheles. The genome sequences were a result of the Plasmodium falciparum Genome Project. This book covers in detail the biology of malaria parasites and the mosquitoes that transmit the disease, how the Genome Projects came into being, the people who created them, and the cadre of scientists who are attempting to see the promise of the Projects realized. The promise was: a more complete understanding of the genes of the parasi