1. Record Nr. UNINA9910672437603321

Autore	Tyagi B. K.
Titolo	Desert Malaria : An Emerging Malaria Paradigm and Its Global Impact on Disease Elimination / / by B.K. Tyagi
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789811976933 9789811976926
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (424 pages)
Disciplina	614.4
Soggetti	Parasitology Epidemiology Diagnosis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 ‘Desert malaria‘: an emerging new paradigm -- 2 Global vis-à-vis desert-driven malaria -- 3 World deserts: environments and malaria potential -- 4 Desert water sources and vector adaptation -- 5 ‘Tanka’ and ’Beri’ –most crucial habitats for breeding of anopheles stephensi and emergence of “desert malaria” in the thar desert -- 6 Extensive canalization and its impact on transformation of the thar desert and malaria excerbation -- 7 Anopheline fauna and major malaria vectors of deserts -- 8 Anophelenization of the deserts -- 9 Sibling species complexes of malaria vectors in major deserts -- 10 Anopheles stephensi liston 1901:origin and chorogeography –a new hypothesis -- 11 Invasive vector species of malaria in desert environments -- 12 Epidemiology of desert malaria -- 13 Epidemics of malaria in major deserts -- 14 Urban malaria in the desert -- 15 Clinical scenario of desert malaria -- 16 Agroeconomical and eco-bio-social aspects of malaria in deserts -- 17 Vector identification and malaria diagnosis in major deserts -- 18 Malaria immunity in desert populations and development of resistance in parasites against antimalarials -- 19 Malaria and climate change 20 Trans-border migration and malaria in desert populations -- 21 Malaria management including vector control in major deserts -- 22 Inventions, innovations and discoveries in malaria in desert environments -- 23 Future implications of desert

malaria in global elimination campaign -- 24 Anopheles stephensi –the first vector to show an evolutionary response to rapid climate change -- 25 Conclusion: will deserts transform into malaria hotspots tomorrow? .

Sommario/riassunto

This book comprehensively reviews the disease dynamics, distribution, surveillance, epidemiology, diagnosis, control strategies, and management of the desert malaria. It highlights the potential risks of unstable but often exacerbated malaria conflagration as epidemics in the middle of duned desert, a desert oasis, and desert-fringe regions. Further, it reveals the factors inveigled into desert environments due to extensive anthropogenic activities such as canalized irrigation projects, high-yielding new agriculture practices, human concentration, and increased trade. It addresses the impact of irrigation on the malarial dynamics and its coupling to the climate forcing. The book also offers a model for desert transformation into malaria heaven under the changed climatic conditions including high rainfall, humidity, and depletion in temperature. Lastly, it offers insight into malaria epidemiology and disease control in the desert’s arid environments. This book is an essential resource for medical entomologists, parasitologists, epidemiologists, and public health researchers.