

1. Record Nr.	UNINA9910457580103321
Titolo	Microbe-vector interactions in vector-borne diseases : Sixty-third Symposium of the Society for General Microbiology held at the University of Bath March 2004 // edited by S.H. Gillespie, G.L. Smith and A. Osbourn [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2004
ISBN	1-107-14055-2 1-280-95569-4 9786610955695 1-139-13099-4 0-511-35120-8 0-511-14128-9 0-511-14096-7 0-511-75484-1 0-511-14120-3
Descrizione fisica	1 online resource (ix, 383 pages) : digital, PDF file(s)
Collana	Society for General Microbiology. Symposia ; ; 63
Disciplina	614.43
Soggetti	Vector-pathogen relationships Arthropod vectors Vector control Communicable diseases - Transmission
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Vector-borne diseases / B.W.J. Mahy -- Evolution of tick-borne disease systems / S.E. Randolph -- Insect transmission of viruses / S. Blanc -- RNA-based immunity in insects / R. Lu [and others] -- Specificity of Borrelia-tick vector relationships / A. Barbour -- Bunyavirus/mosquito interactions / R.M. Elliott and A. Kohl -- How do mosquito vectors live with their viruses? / S. Higgs -- Vector competence / S.C. Weaver [and others] -- Environmental influences on arbovirus infections and vectors / P.S. Mellor -- Vector immunity / N.A. Ratcliffe and M.M.A. Whitten -- Transmission of plant viruses by nematodes / S.A. MacFarlane and D.J.

Robinson -- Wolbachia host-symbiont interactions / M.J. Taylor -- Pathogenic strategies of Anaplasma phagocytophilum, a unique bacterium that colonizes neutrophils / J.A. Carlyon and E. Fikrig -- Interactions of Yersinia pestis with its flea vector that lead to the transmission of plague / B.J. Hinnebusch -- Transgenic malaria / P.W. Atkinson and D.A. O'Brochta -- Vaccines targeting vectors G.A.T. Targett.

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Sommario/riassunto

Several billion people are at daily risk of life threatening vector-borne diseases such as malaria, trypanosomiasis and dengue. This volume describes the way in which the causal pathogens of such diseases interact with the vectors that transmit them. It details the elegant biological adaptations that have enabled pathogens to live with their vectors and, in some circumstances, to control them. This knowledge has led to novel preventative strategies in the form of antibiotics and new vaccines which are targeted not at the pathogen itself but at its specific vector.

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