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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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