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Nota di contenuto	Summary and assessment -- Vector-borne disease emergence and resurgence. Overview -- The global threat of emergent/reemergent vector-borne diseases / Duane J. Gubler -- Why we do not understand the ecological connections between the environment and human health: the case for vector-borne disease / Durland Fish -- Ecology of emerging vector-borne plant diseases / Rodrigo P.P. Almeida -- Ecology of disease: the intersection of human and animal health / Kenneth J. Linthicum ... [et al.] -- Climate change and health: global to local influences on disease risk / Jonathan A. Patz and Sarah H. Olson -- Climate change and vector-borne disease: update on climate effects on Lyme disease and West Nile Virus in North America / Jonathan A. Patz and Christopher K. Uejio -- Vector-borne disease detection and control. Overview -- Longitudinal field studies will guide a paradigm

shift in dengue prevention / Thomas W. Scott and Amy C. Morrison -- Innovative decision support and vector control approaches to control dengue / Lars Eisen and Barry J. Beaty -- West Nile virus / Lyle R. Petersen --

Rift Valley fever is an emerging arthropod-borne virus / C.J. Peters -- The implications of entomological monitoring and evaluation for arthropod vector-borne disease control programs / Michael Coleman and Janet Hemingway -- Vector-borne zoonotic diseases and their ecological and economic implications: bluetongue disease in Europe / Bennie I. Osburn -- Environmental factors influence transmission of sin nombre hantavirus between rodents (and to humans?) / Charles H. Calisher ... [et al.] -- Integrating strategies to address vector-borne disease. Overview -- Needs and opportunities to control vector-borne diseases: responses to the IOM microbial threats to health committee recommendations / Barry J. Beaty and Lars Eisen -- Integration of strategies: surveillance, diagnosis, and response / Roger S. Nasci -- Surveillance, diagnosis, and response: integration of strategies / Sherrilyn Wainwright -- Confronting vector-borne diseases in an age of ecologic change / David M. Morens -- The vector biology program at the National Institute of Allergy and Infectious Diseases / Adriana Costero -- Appendixes.

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#### Sommario/riassunto

Vector-borne infectious diseases, such as malaria, dengue fever, yellow fever, and plague, cause a significant fraction of the global infectious disease burden; indeed, nearly half of the world's population is infected with at least one type of vector-borne pathogen (CIESIN, 2007; WHO, 2004a). Vector-borne plant and animal diseases, including several newly recognized pathogens, reduce agricultural productivity and disrupt ecosystems throughout the world. These diseases profoundly restrict socioeconomic status and development in countries with the highest rates of infection, many of which are located in the tropics and subtropics. Although this workshop summary provides an account of the individual presentations, it also reflects an important aspect of the Forum philosophy. The workshop functions as a dialogue among representatives from different sectors and allows them to present their beliefs about which areas may merit further attention. These proceedings summarize only the statements of participants in the workshop and are not intended to be an exhaustive exploration of the subject matter or a representation of consensus evaluation. Vector-Borne Diseases: Understanding the Environmental, Human Health, and Ecological Connections, Workshop Summary (Forum on Microbial Threats) summarizes this workshop.

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