



# **Henipavirus: Ecology, Molecular Virology, and Pathogenesis (Current Topics in Microbiology and Immunology)**

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Henipaviruses form a new genus of emerging paramyxoviruses that are the deadliest human pathogens within the *Paramyxoviridae* family. This volume deals with the many facets of henipavirus biology, and covers our current understanding regarding the ecology, molecular virology, and pathogenesis of henipavirus infections. It is an international effort written by a multidisciplinary panel of experts at the front lines of research into this lethal emerging group of paramyxoviruses. The first section introduces the epidemiology and ecology of Nipah and Hendra viruses in their respective endemic areas, including a first-hand account of the discovery of Nipah virus during its initial outbreak in Malaysia; the next section documents the molecular virology of henipaviruses, and the substantial advances made towards understanding the unique features of henipavirus entry and tropism; and this is followed by accounts of the clinical and pathologic features of henipavirus infections in their human and naturally infected animal hosts. The next sections on pathogenesis provide a comprehensive reference on how henipaviruses counteract the innate immune system, and the relevant pathogenic features in animal challenge models developed to test potential therapeutic strategies. The final sections describe our current and future capabilities for diagnosis and control, including an account of potentially effective immunization strategies that are currently being tested.

This book will not only serve as a useful reference for the henipavirus field; it will be useful to basic and animal virologists, ecologists, epidemiologists, physicians, and others interested in emerging infectious viral diseases, as it showcases the multidisciplinary efforts required to understand the genesis, spread and hopefully, control, of a group of lethal emerging zoonotic pathogens.

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