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Ebola and Marburg Viruses: A View of Infection Using Electron Microscopy

Elena Ryabchikova, Barbara B. S. Price

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Electron microscopy has a special place among the wide range of techniques available for viral research. With electron microscopy, a virologist can follow the course of viral infections by visualizing cell damage and viral replication. Each virus family has its own structural and functional attributes, but attention is usually focused on the pathogenic and health-threatening viruses. The Ebola and Marburg filoviruses are notorious among these.

In Ebola and Marburg Viruses: A View of Infection Using Electron Microscopy, the authors combine recent published and unpublished literature with insights developed in over 30 years in electron microscopy and 15 years in virology to tell the story of filoviruses and how they invade and conquer their hosts. The book describes the dynamic properties of these viruses and follows the stages of filoviral infection from the individual cell to the whole organism, constructing the sequential events of filoviral infections.

The book also demonstrates that, rather than a curiosity, the electron microscope is an integral tool in studies of viral infection and the pathological process. Ebola and Marburg Viruses: A View of Infection Using Electron Microscopy includes over 100 outstanding micrographs of filoviruses and the cell and tissue damage they cause during infection, as well as time course studies of Marburg infection in test animals.

The book is addressed to investigators in the widely diversified fields of medicine and biology. For this reason, the authors, Dr. Elena Ryabchikova and Dr. Barbara Price, have carefully elucidated concepts familiar to virologists that may be unfamiliar to nonvirologists. The book is also designed to provide opportunities for investigators specializing in viruses to correlate their findings with the work of electron microscopists.

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Donna Antonucci:

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