

Viruses

From Understanding to Investigation

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Viruses: From Understanding to Investigation is a map for a lifetime of learning that presents the definition and unique characteristics of viruses. It includes major research topics such as virus life-cycle, structure, taxonomy, evolution, history, genomics in virus discovery, host-virus interactions, and methods to study viruses.

The textbook employs a comparative strategy to emphasize the unique structural and molecular characteristics that inform transmission, disease processes, vaccine strategies and host responses. In addition, it presents a full review of the molecular biology of host cells and the immune system at large. This is enhanced further by text boxes with experimental approaches used by virologists, question sets and quizzes, a full glossary, plus learning objectives, methods and advances presented as boxes in each chapter.

This holistic approach elucidates the connections between and among the aforementioned topics, providing an in-depth understanding of how viruses work.



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