

Fields Virology 7th Edition

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principles of virology the leading virology textbook in use is an extremely valuable and highly informative presentation of virology at the interface of modern cell biology and immunology this text utilizes a uniquely rational approach by highlighting common principles and processes across all viruses using a set of representative viruses to illustrate the breadth of viral complexity students are able to understand viral reproduction and pathogenesis and are equipped with the necessary tools for future encounters with new or understudied viruses this fifth edition was updated to keep pace with the ever changing field of virology in addition to the beloved full color illustrations video interviews with leading scientists movies and links to exciting blogposts on relevant topics this edition includes study questions and active learning puzzles in each chapter as well as short descriptions regarding the key messages of references of special interest volume i molecular biology focuses on the molecular processes of viral reproduction from entry through release volume ii pathogenesis and control addresses the interplay between viruses and their host organisms on both the micro and macroscale including chapters on public health the immune response vaccines and other antiviral strategies viral evolution and a brand new chapter on the therapeutic uses of viruses these two volumes can be used for separate courses or together in a single course each includes a unique appendix glossary and links to internet resources principles of virology fifth edition is ideal for teaching the strategies by which all viruses reproduce spread within a host and are maintained within populations this edition carefully reflects the results of extensive vetting and feedback received from course instructors and students making this renowned textbook even more appropriate for undergraduate and graduate courses in virology microbiology and infectious diseases

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all five editions of this textbook have been written according to the authors philosophy that the best approach to teaching introductory virology is by emphasizing shared principles studying the common steps of the viral reproductive cycle illustrated with a set of representative viruses and considering mechanisms by which these viruses can cause disease provides an integrated overview of the biology of these infectious agents such knowledge cannot be acquired by learning a collection of facts about individual viruses consequently the major goal of this book is to define and illustrate the basic principles of virus biology in this information rich age the quantity of data describing any given virus can be overwhelming if not indigestible for student and expert alike the urge to write more and more about less and less is the curse of reductionist science and the bane of those who write textbooks meant to be used by students in the fifth edition we continue to distill information with the intent of extracting essential principles while providing descriptions of how the information was acquired and tools to encourage our readers exploration of the primary literature boxes are used to emphasize major principles and to provide supplementary material of relevance from explanations of terminology to descriptions of trailblazing experiments our goal is to illuminate process and strategy as opposed to listing facts and figures in an effort to make the book readable we have been selective in our choice of viruses that are used as examples the encyclopedic fields virology knipe dm howley pm ed 2020 fields virology 7th ed lippincott williams wilkins philadelphia pa is recommended as a resource for detailed reviews of specific virus families

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all five editions of this textbook have been written according to the authors philosophy that the best approach to teaching introductory virology is by emphasizing shared principles studying the common steps of the viral reproductive cycle illustrated with a set of representative viruses and considering mechanisms by which these viruses can cause disease provides an integrated overview of the biology of these infectious agents such knowledge cannot be acquired by learning a collection of facts about individual viruses consequently the major goal of this book is to define and illustrate the basic principles of virus biology in this information rich age the quantity of data describing any given virus can be overwhelming if not indigestible for student and expert alike the urge to write more and more about less and less is the curse of reductionist science and the bane of those who write textbooks meant to be used by students in the fifth edition we continue to distill information with the intent of extracting essential principles while providing descriptions of how the information was acquired and tools to encourage our readers exploration of the primary literature boxes are used to emphasize major principles and to provide supplementary material of relevance from explanations of terminology to descriptions of trailblazing experiments our goal is to illuminate process and strategy as opposed to listing facts and figures in an effort to make the book readable we have been selective in our choice of viruses that are used as examples the encyclopedic fields virology knipe dm howley pm ed 2020 fields virology 7th ed lippincott williams wilkins philadelphia pa is recommended as a resource for detailed reviews of specific virus families

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fields virology is the authoritative reference book for virology providing definitive coverage of all aspects of virology through coverage of virus biology as well as replication and medical aspects of specific virus families with the regular outbreaks of influenza noroviruses as well as emerging and re emerging viruses it is essential to have the most up to date information available with this sixth edition all chapters have been completely updated an important new emphasis has been placed on virus discovery and emerging viruses viruses associated with cancer including the new human polyomaviruses are highlighted in this sixth edition and new chapters have been added on circoviruses and mimiviruses while the main focus of this edition continues to be on viruses information on prions and the infectious spongiform encephalopathies are also included

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