Molecular Virology of Human Pathogenic Viruses

Wang-Shick Ryu
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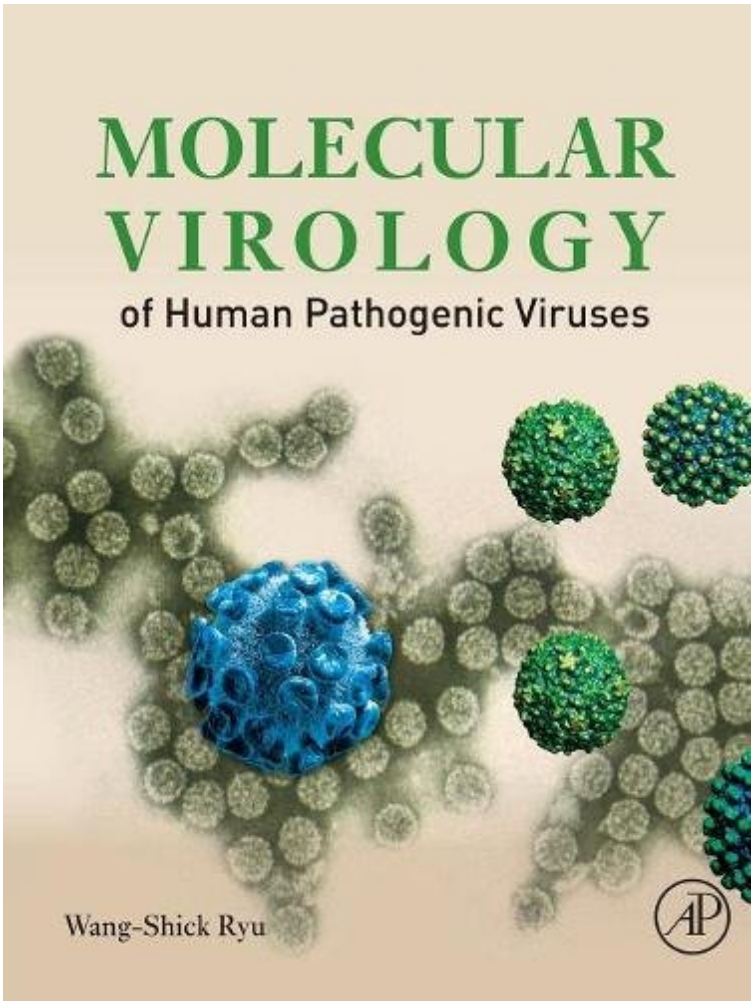

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subviruses.don't hesitate to buy it.

Molecular Virology of Human Pathogenic Viruses presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field. The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience. Each chapter describes the viral life cycle covering the order of classification, virion and genome structure, viral proteins, viral genome replication, and the effect on host and an emphasis on virus-host interaction is conveyed throughout the text. Molecular Virology of Human Pathogenic Viruses provides essential information for students and professionals in virology, molecular biology, microbiology, infectious disease, and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature.KEY FEATURES Presents viruses within their family structureCovers ten major human pathogenic viruses and miscellaneous viruses of clinical importanceIncludes a chapter "Newly Emerging Viruses", covering the recent Ebola and Zika virus outbreaksIncludes over 300 illustrations that are drawn with conceptual emphasisContains recent articles with perspectives to put primary literature in contextIncludes Study Questions and Answers to Study QuestionProvides access to online ancillary package inclusive of annotated PowerPoint images, instructor's manual, study guide, and test bank

"I am not a virologist, but I loved reading this book cover-to-cover, and every page answered questions that I had wondered about. I had a hard time putting the book down. The beauty of'Molecular Virology of Human Pathogenic Viruses' is that it provides a conceptual framework forunderstanding the various types of viruses in Chapter 1, and then integrates this framework withthe specific information of each group of viruses. This book is ideal for all levels of scientists interested in virology or for graduate courses in virology". Dr. Michael Lieber, Professor of Pathology, University of Southern California."Molecular Virology of Human Pathogenic Viruses concisely covers the essential topics for an advanced undergraduate or graduate virology class. Molecular virology of key pathogenic viruses is thoroughly covered, with significant discussion of host immune responses to viruses and viral pathology. Virology's evolving nature is emphasized through explanations of experimental approaches and biographical sketches of prominent virologists. Suggested readings, study questions, and journal club suggestions are provided to aid the students. Overall, this volume is a very welcome addition to the academic bookshelf that fills a gap between superficial review texts and detailed volumes suitable only for advanced topics classes."Dr. John Tavis, Professor of Molecular Microbiology and Immunology, St. Louis University School of Medicine. From the AuthorThis book is essentially written in the context of virus family. My teaching experience convinced me that the descriptionby family is the best way of learning/teaching diverse viruses. Nonetheless, the principles that are shared by diverse virus families are described in Part I Principle that includes Classification, Structure, Virus Life Cycle, Diagnosis and Methods, and Host Immune Response. From Part II to Part IV, each chaptercovers anindividual virus family, focusingone prototype of clinical importance. In my view, it is critical to arrange chapters in a logical manner, for example, according to Baltimore classification. Specifically, ten major human virus families are covered, in order of DNA viruses, RNA viruses, and reverse transcribing viruses. Other miscellaneous viruses are covered only briefly in the following chapters: Other DNA Viruses, Other Positive-Strand RNA Viruses, and Other Negative-Strand RNA Viruses. Other related viruses are described in Part V including Viral vectors, Subviral agents, and New emerging viruses. Finally, Part VI Viruses and Disease features medically related content, such as HIV and AIDS,Vaccines, and Antivirals.From the Inside FlapShort ContentsPart I Principles 11. Discovery and Classification 2. Virus Structure 3. Virus Life Cycle 4. Diagnosis and Methods 5. Host Immune Response Part II DNA Viruses 6. Polyomaviruses: SV40 7. Papillomaviruses 8. Adenoviruses 9. Herpesviruses 10. Other DNA Viruses Part III RNA Viruses11. Picornavirus 12. Flaviviruses 13. Other Positive-Strand RNA Viruses 14. Rhabdovirus 15. Influenza Viruses 16. Other Negative-Strand RNA Viruses Part IV RT Viruses 17. Retroviruses 18. Hepadnaviruses Part V Other Viruses 19. Virus Vectors 20. Subviral Agents and Prions 21. New Emerging Viruses Part VI Viruses and Disease 22. HIV and AIDS 23. Hepatitis Viruses 24. Tumor Viruses 25. Vaccines 26. Antiviral Therapy