

Preface

Viruses: Biology, Applications, and Control is a much-expanded version of the second edition of *Molecular Virology*. It provides a solid grounding in biomedical virology and also broad coverage of the ways in which viruses relate to the modern world. It is never possible for a book of this size to be as comprehensive as the author might wish, but by focusing on key mechanisms and developments the book presents an overall picture along with sufficient detail for the reader to develop a useful understanding of the field as a whole.

Many new or expanded sections have been included to cover recent developments in this rapidly expanding field including virus evolution and extinction, emerging infections, gene therapy, bacteriophage therapy, and diagnostics. A comprehensive listing of antiviral drugs underpins coverage of ways in which virus infections can be controlled, and also included are the interactions between viruses and the immune system. The main text gives an overview of virus replication strategies with detail on specific viruses being given in a special appendix. By providing such extensive coverage in a single volume, this book allows readers at all levels from novice to expert to dip in and retrieve information on a wide variety of topics.

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