



# Principles of Molecular Virology, Fifth Edition

By Alan J. Cann

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## Principles of Molecular Virology, Fifth Edition By Alan J. Cann

*Principles of Molecular Virology, Fifth Edition*, provides an introduction to modern virology. Viruses are submicroscopic, obligate intracellular parasites that are more diverse than all the bacterial, plant, and animal kingdoms combined. The book examines protein-protein, protein-nucleic acid, and protein-lipid interactions, which control the structure of virus particles; the ways in which viruses infect cells; how viruses replicate; and the effects of virus infection on host organisms.

The book begins with a history of virology, tracing the development of knowledge and research on virology. The remaining seven chapters deal with the function and formation of virus particles; the structure and complexity of virus genomes; virus replication; gene expression; virus infections; the effects of virus infection on the body and the body's response to infection; and subviral agents, such as satellites, viroids, and prions. The text concludes with three appendices that feature a glossary and abbreviations; a classification of subcellular infectious agents; and an outline of the history of virology.

- Completely rewritten and updated
- Clear and easy to understand
- Examples covering important ideas in virology
- All new illustrations

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### Editorial Review

#### Review

##### Praise for previous editions:

"An excellent virological text for students. It is recommended in many university undergraduate courses for good reason. It is well written in an accessible style... well illustrated...I suspect the self assessment questions will be usefully plundered by those setting examinations." - Trends in Genetics

"Excellent.. The writing flows easily with good practical examples... an attractive, up-to-date book and is an excellent buy that I can strongly recommend." - Society for General Microbiology Quarterly

"More suitable for an undergraduate class than any other text I have recently seen... readable and undergraduate-friendly, and it fills a definite niche." - American Society for Microbiology News

"Compact... and realistically priced... Present(s) molecular virology to an undergraduate audience is an easily digestible form." - Trends in Microbiology

#### From the Back Cover

The fifth edition of the highly successful *Principles of Molecular Virology* provides an easily accessible introduction to modern virology. Focusing on a molecular approach, this classic textbook explains virology in a clear and concise manner. The book explores and explains the fundamentals of virology, including the structure of virus particles and genomes, replication, gene expression infection, pathogenesis and subviral agents. The self-assessment questions, glossary and pronunciation guide provide excellent revision aids and are a handy reference for students, tutors and researchers.

#### Key features

- Completely rewritten and updated
- Clear and easy to understand
- Examples covering important ideas in virology
- All new illustrations

#### About the author

**Dr. Alan Cann** is a senior lecturer in Biological Sciences at the University of Leicester, UK. Having worked both in the UK and in the USA, and in addition to teaching undergraduate, postgraduate and medical students, he has widespread research interests in molecular virology and pathogenesis of viruses.

#### About the Author

Dr. Alan J. Cann has worked in both the U.K. and U.S.A. teaching undergraduate, postgraduate, and medical students. He is currently a Senior Lecturer in Biological Sciences at the University of Leicester where his research interests include pedagogic research and science communication.

### Users Review

#### From reader reviews:

**Mary Goldstein:**

This Principles of Molecular Virology, Fifth Edition book is simply not ordinary book, you have after that it the world is in your hands. The benefit you will get by reading this book will be information inside this book incredible fresh, you will get facts which is getting deeper anyone read a lot of information you will get. That Principles of Molecular Virology, Fifth Edition without we realize teach the one who reading it become critical in considering and analyzing. Don't possibly be worry Principles of Molecular Virology, Fifth Edition can bring whenever you are and not make your carrier space or bookshelves' turn into full because you can have it with your lovely laptop even cell phone. This Principles of Molecular Virology, Fifth Edition having great arrangement in word and also layout, so you will not sense uninterested in reading.

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