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The experimental approaches include microscopy (electron and optical), molecular

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genetics, biochemistry, and biophysics. Cell culture techniques are an important aspect of research in cell biology. Yeast, insect, avian, plant, and mammalian cells are under active study at Cornell. Faculty in several units are carrying out research in cell biology.

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Molecular biology /m??l?kj?l?r/ is the branch of biology that concerns the molecular basis of biological activity in and between cells, including molecular synthesis,

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modification, mechanisms and interactions. The central dogma of molecular biology describes the process in which DNA is transcribed into RNA, then translated into protein. William Astbury described molecular biology in 1961 in Nature, as: ...not so much a technique as an approach, an approach from the viewpoint of the so ...

~~Molecular biology~~

Wikipedia

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stuff of life (molecules) – get up to speed on the structure of atoms, types of bonds, carbohydrates, proteins, DNA, RNA, and lipids Watch as cells function and reproduce – see how cells communicate, obtain matter and energy, and copy themselves for growth, repair, and reproduction Make sense of genetics – learn how parental cells organize their DNA during sexual reproduction and how scientists can predict inheritance patterns Decode a cell's underlying programming – examine how DNA is read by cells, how it determines the traits of

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Harness the power of DNA – discover how scientists use molecular biology to explore genomes and solve current world problems Open the book and find: Easy-to-follow explanations of key topics
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This textbook takes you on a journey to the basic concepts of cancer biology. It combines developmental, evolutionary and cell biology perspectives, to then wrap-up with an integrated clinical approach. The book starts with an introductory chapter, looking at cancer in a nut shell. The subsequent chapters are detailed and the idea of cancer as a mass of somatic cells undergoing a micro-evolutionary Darwinian process is explored. Further, the main Hanahan and Weinberg "Hallmarks of Cancer" are revisited. In most chapters, the

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fundamental experiments that led to key concepts, connecting basic biology and biomedicine are highlighted. In the book's closing section all of these concepts are integrated in clinical studies, where molecular diagnosis as well as the various classical and modern therapeutic strategies are addressed. The book is written in an easy-to-read language, like a one-on-one conversation between the writer and the reader, without compromising the scientific accuracy. Therefore, this book is suited not only for advanced undergraduates and master students but also for

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patients or curious lay people looking for a further understanding of this shattering disease

With its acclaimed author team, cutting-edge content, emphasis on medical relevance, and coverage based on key experiments, Molecular Cell Biology has justly earned an impeccable reputation as an exciting and authoritative text.

Avoiding an encyclopedic approach, the book grounds its coverage in the experiments that define our understanding of cell biology, engaging students with the exciting breakthroughs that define

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the field's history and point to its future. The authors, all world-class researchers and teachers, incorporate medically relevant examples where appropriate to help illustrate the connections between cell biology and health and human disease.

The Problems Book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the experimental foundation of cell and molecular biology. Each chapter reviews key terms, tests for understanding basic

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concepts, and poses research-based problems. The Problems Book has be

Pain is the number one reason that people seek medical attention but pain is still under- and poorly-treated world-wide. The purpose of this book is to give an up to date picture of what causes pain, how pain becomes chronic and what pharmacological targets might be manipulated to alleviate acute and chronic pain. The book will cover a wide array of topics from gene polymorphisms to voltage-gated ion channels moving from cellular biology to whole animal physiology.

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Written by future leaders in the pain field Covers a wide range of targets Contains provocative ideas about the future direction of the pain field.

Viruses interact with host cells in ways that uniquely reveal a great deal about general aspects of molecular and cellular structure and function. Molecular and Cellular Biology of Viruses leads students on an exploration of viruses by supporting engaging and interactive learning. All the major classes of viruses are covered, with separate chapters for their replication and expression

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strategies, and chapters for mechanisms such as attachment that are independent of the virus genome type. Specific cases drawn from primary literature foster student engagement. End-of-chapter questions focus on analysis and interpretation with answers being given on the website (half for students, all for instructors). Examples come from the most-studied and medically important viruses such as HIV, influenza, and poliovirus. Plant viruses and bacteriophages are also included. There are chapters on the overall effect of viral infection on the host

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cell. Coverage of the immune system is focused on the interplay between host defenses and viruses, with a separate chapter on medical applications such as anti-viral drugs and vaccine development. The final chapter is on virus diversity and evolution, incorporating contemporary insights from metagenomic research. Key selling feature: Readable but rigorous coverage of the molecular and cellular biology of viruses. Molecular mechanisms of all major groups, including plant viruses and bacteriophages, illustrated by example. Host-pathogen interactions at the

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cellular and molecular level emphasized throughout
Medical implications and consequences included
Quality illustrations available to instructors
Extensive questions and answers for each chapter

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include introduction to the cell, basic genetic mechanisms, methods, internal organization of the cell, and cells in their social context. The book contains color illustrations and charts; and the included CD-ROM contains dozens of video clips, animations, molecular structures, and high-resolution micrographs. Annotation copyrighted by Book News Inc., Portland, OR.

The sixth edition provides an authoritative and comprehensive vision of molecular biology today. It presents developments in cell birth, lineage and

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death, expanded coverage of signaling systems and of metabolism and movement of lipids.

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