

A Genetic Switch Third Edition Phage Lambda Revisited

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the first edition of mark ptashne's 1986 book describing the principles of gene regulation in phage lambda became a classic in both content and form setting a standard of clarity and precise prose that has rarely been bettered this edition is a reprint of the original text together with a new chapter updating the story to 2004 among the striking new developments are recent findings on long-range interactions between proteins bound to widely separated sites on the phage genome and a detailed description of how gene activation works

published since 1953 advances in virus research covers a diverse range of in depth reviews providing a valuable overview of the current field of virology the impact factor for 2008 is 4.886 placing it 4th in the highly competitive category of virology contributions from leading authorities informs and updates on all the latest developments in the field

the explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field brenner's encyclopedia of genetics second edition seven volume set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published the currency and accessibility of this foundational content will be unrivaled making this work useful for scientists and non scientists alike featuring relatively short entries on genetics topics written by experts in that topic brenner's encyclopedia of genetics second edition seven volume set provides an effective way to quickly learn about any aspect of genetics from abortive transduction to zygotes adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study many of the entries include figures to explain difficult concepts key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries this 7 volume set represents a 25 expansion from the first edition with over 1600 articles encompassing this burgeoning field thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies interdisciplinary and global in its outlook as befits the field of genetics brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics

providing the single most comprehensive and authoritative textbook on bacterial molecular genetics this updated edition provides descriptive background information detailed experimental methods examples of genetic analyses and advanced material relevant to current applications of molecular genetics

the problem of unraveling two intertwined strands during the duplication of dna was recognized shortly after the proposal of the dna double helix structure in 1953 a group of enzymes called dna topoisomerases solve this problem by breaking and rejoining dna molecules in a controlled manner thereby allowing strands to be passed through each other and thus untangled not just during dna replication but also during many other basic cellular processes because of their intimate involvement in the workings of the cell topoisomerases are also the logical targets of many antibiotics including cipro and anticancer agents this book written by james wang the discoverer of the first topoisomerase and a leader in the field since

presents ten chapters covering the historical backdrop of the dna entanglement problem and the discovery of the dna topoisomerases how dna topoisomerases perform their magic in dna replication transcription genetic recombination and chromosome condensation and how they are targets of therapeutic agents the book should appeal to readers from undergraduates upwards with interests in the biological and clinical aspects of topoisomerase function or in the mathematics and physics of topology

professor william h elliott emeritus professor department of biochemistry university of adelaide australia dr daphne c elliott formerly lecturer department of biochemistry flinders university adelaide australia

covers biological molecular and medical topics concerning viruses in animals plants bacteria and insects this new ed has been extensively revised and updated to reflect the 50 increase in identified and accepted viruses since 2000 includes information on avian flu sars and west nile and the ability of some viruses to be used as agents of bioterrorism

the regulation of gene expression in many biological processes involves epigenetic mechanisms in this new volume 24 chapters written by experts in the field discuss epigenetic effects from many perspectives there are chapters on the basic molecular mechanisms underpinning epigenetic regulation discussion of cellular processes that rely on this kind of regulation and surveys of organisms in which it has been most studied thus there are chapters on histone and dna methylation sirnas and gene silencing x chromosome inactivation dosage compensation and imprinting and discussion of epigenetics in microbes plants insects and mammals the last part of the book looks at how epigenetic mechanisms act in cell division and differentiation and how errors in these pathways contribute to cancer and other human diseases also discussed are consequences of epigenetics in attempts to clone animals this book is a major resource for those working in the field as well as being a suitable text for advanced undergraduate and graduate courses on gene regulation

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