

A Genetic Switch Third Edition Phage Lambda Revisited

A Genetic Switch Nature A Genetic Switch Science ASM News A Short Course in Bacterial Genetics: Handbook Genome Research Mechanism of Xis and Fis Cooperativity in the Phage Lambda Excisive Nucleoprotein Complex We Can Sleep Later Cell Biology The Condensed Protocols from Molecular Cloning Molecular Cloning Site-specific Recombination of Lambdoid Phage 21 Into the Icd Gene of Escherichia Coli Casarett & Doull's Toxicology: The Basic Science of Poisons, Eighth Edition Handbook of Genetics Untangling the Double Helix Bacteria, Bacteriophages, and Fungi Casarett & Doull's Toxicology: The Basic Science of Poisons, Eighth Edition Gene Expression Genetics and Molecular Biology Mark Ptashne Sir Norman Lockyer Mark Ptashne John Michels (Journalist) Jeffrey H. Miller Christie Voornas Papagiannis Alfred Day Hershey Charlotte J. Avers Joseph Sambrook Joseph Sambrook Stephanie Jo Schneider Curtis Klaassen Robert C. King James C. Wang Robert C. King Louis J. Casarett Benjamin Lewin Robert F. Schleif

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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 longâ range interactions between proteins bound to widely separated sites on the phage genome and a detailed description of how gene activation works

a weekly record of scientific progress

an absorbing portrait of the pioneering molecular biologist best known for demonstrating that dna is the genetic component of phages through essays and reminiscences from twentyâ three distinguished scientists whose work and careers were influenced by the man and his science

the condensed protocols from molecular cloning a laboratory manual is a singleâ volume adaptation of the threeâ volume third edition of molecular cloning a laboratory manual this condensed book contains only the stepâ byâ step portions of the protocols accompanied by selected appendices from the world s bestâ selling manual of molecular biology techniques each protocol is crossâ referenced to the appropriate pages in the original manual this affordable companion volume designed for bench use offers individual investigators the opportunity to have their own personal collection of short protocols from the essential molecular cloning

the most trusted all in one overview of the biomedical and environmental aspects of toxicology now more complete up to date and in full color the world s leading and most authoritative textbook on poisons has more to offer students toxicologists and pharmacologists than ever before now in full color and thoroughly revised the eighth edition of casarett doull s toxicology the basic science of poisons not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere combined with the latest thinking by the field s foremost scholars plus solid coverage of general principles modes of action and chemical specific toxicity this landmark text continues to set the standard for toxicology references new to the eighth edition full color design to allow for a clearer interpretation of the basic components of toxicology featured throughout the text expanded tables illustrations and other visuals are updated with state of the art standards that makes this edition even more current and relevant dvd with image bank features all tables and illustrations from the text in presentation ready format new chapters include toxic effects of calories and toxic effects of nanoparticles

the purpose of this and future volumes of the handbook of genetics is to bring together a collection of relatively short authoritative essays or annotated compilations of data on topics of significance to geneticists many of the essays will deal with various aspects of the biology of certain species selected because they are favorite subjects for genetic investigation in nature or the laboratory often there will be an encyclopedic amount of information available on such a species with new papers appearing daily most of these will be written for specialists in a jargon that is bewildering to a novice and sometimes even to a veteran geneticist working with evolutionarily distant organisms for such readers what is needed is a written introduction to the morphology life cycle reproductive behavior and culture methods for the species in question what are its particular advantages and disadvantages for genetic study and what have we learned from it where are the classic papers the key bibliographies and how does one get stocks of wild type or mutant strains the chapters devoted to different species will contain information of this sort only a few hundreds of the millions of species available to biologists have been subjected to detailed genetic study however those that have make up a very heterogeneous sample of the living world

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

vol 1

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in the first edition of genetics and molecular biology renowned researcher and award winning teacher robert schleif produced a unique and stimulating text that was a notable departure from the standard compendia of facts and observations schleif s strategy was to present the underlying fundamental concepts of molecular biology with clear explanations and critical analysis of well chosen experiments the result was a concise and practical approach that offered students a real understanding of the subject this second edition retains that valuable approach with material thoroughly updated to include an integrated treatment of prokaryotic and eukaryotic molecular biology genetics and molecular biology is copiously illustrated with two color line art each chapter includes an extensive list of important references to the primary literature as well as many innovative and thought provoking problems on material covered in the text or on related topics these help focus the student s attention of a variety of critical issues solutions are provided for half of the problems praise for the first edition schleif s genetics and molecular biology is a remarkable achievement it is an advanced text derived from material taught largely to postgraduates and will probably be thought best suited to budding professionals in molecular genetics in some ways this would be a pity because there is also gold here for the rest of us the lessons here in dealing with the information explosion in biology are that an ounce of rationale is worth a pound of facts and that for educational value there is nothing to beat an author writing about stuff he knows from theinside nature schleif presents a quantitative chemically rigorous approach to analyzing problems in molecular biology the text is unique and clearly superior to any currently available r l bernstein san francisco state university the greatest strength is the author s ability to challenge the student to become involved and get below the surface clifford brunk ucla

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