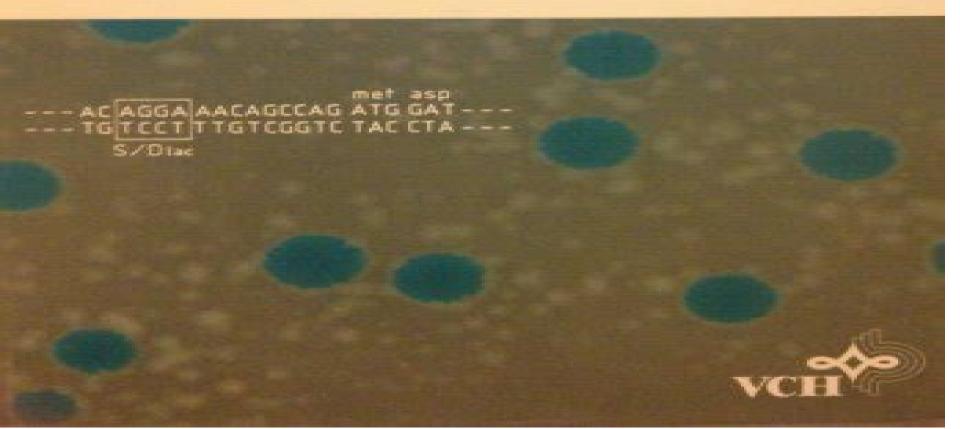
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From Genes to Clones

Introduction to Gene Technology



From Genes To Clones Introduction To Gene Technology

H. S. Chawla

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From Genes to Clones Ernst L. Winnacker, 1987 From genes to clones Ernst-Ludwig Winnacker, 2003 Cloning Stephen D. Fairbanks, 2004 The terms recombinant DNA technology DNA cloning molecular cloning or gene cloning all refer to the same process the transfer of a DNA fragment of interest from one organism to a self replicating genetic element such as a bacterial plasmid The DNA of interest can then be propagated in a foreign host cell This technology has been around since the 1970s and it has become a common practice in molecular biology labs today Reproductive cloning is a technology used to generate an animal that has the same nuclear DNA as another currently or previously existing animal Dolly was created by reproductive cloning technology In a process called somatic cell nuclear transfer SCNT scientists transfer genetic material from the nucleus of a donor adult cell to an egg whose nucleus and thus its genetic material has been removed The reconstructed egg containing the DNA from a donor cell must be treated with chemicals or electric current in order to stimulate cell division Once the cloned embryo reaches a suitable stage it is transferred to the uterus of a female host where it continues to develop until birth Therapeutic cloning also called embryo cloning is the production of human embryos for use in research The goal of this process is not to create cloned human beings but rather to harvest stem cells that can be used to study human development and to treat disease Stem cells are important to biomedical researchers because they can be used to generate virtually any type of specialised cell in the human body This new book presents an up to date Chronology of Cloning along with current and selected abstracts dealing with cloning as well as a guide to books on the topic Access to the Educational Infrastructure for Biotechnology abstract and books sections is provided by title subject and author indexes in India R. K. Mishra, 2006 Los Alamos Science, General Microbiology Hans G. Schlegel, C. Zaborosch, 1993-07-08 This revised up dated and expanded edition of Professor Schlegel's well established textbook provides an excellent introduction to microbiology for a wide range of undergraduate students Introduction to Plant Biotechnology H. S. Chawla, 2002 Plant biotechnology has created unprecedented opportunities for the manipulation of biological systems of plants To understand biotechnology it is essential to know the basic aspects of genes and their organization in the genome of plant cells This text on the subject is aimed at students Brenner's Encyclopedia of Genetics Stanley Maloy, Kelly Hughes, 2013-03-03 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 unrivalled 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 inexistence 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 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Biology of the Prokaryotes Joseph W. Lengeler, Gerhart Drews, Hans G. Schlegel, 2009-07-10 Designed as an upper level textbook and a reference for researchers this important book concentrates on central concepts of the bacterial lifestyle Taking a refreshingly new approach it present an integrated view of the prokaryotic cell as an organism and as a member of an interacting population Beginning with a description of cellular structures the text proceeds through metabolic pathways and metabolic reactions to the genes and regulatory mechanisms At a higher level of complexity a discussion of cell differentiation processes is followed by a description of the diversity of prokaryotes and their role in the biosphere A closing section deals with man and microbes ie applied microbiology. The first text to adopt an integrated view of the prokaryotic cell as an organism and as a member of a population Vividly illustrates the diversity of the prokaryotic world nearly all the metabolic diversity in living organisms is found in microbes New developments in applied microbiology highlighted Extensive linking between related topics allows easy navigation through the book Essential definitions and conclusions highlighted Supplementary information in boxes

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