# Chromosome Microdissection and Cloning

A Practical Guide

Nabil G. Hagag Michael V. Viola



# <u>Chromosome Microdissection And Cloning A Practical</u> <u>Guide Nabil Hagag</u>

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#### **Chromosome Microdissection And Cloning A Practical Guide Nabil Hagag:**

Chromosome Microdissection and Cloning Nabil Hagag, 2012-12-02 Chromosome Microdissection and Cloning A Practical Guide is a straightforward guide to chromosome microdissection and cloning It presents an overview of the procedures and briefly reviews a few areas of research in which these techniques are applied Topics range from preparation of chromosomes for microdissection to molecular cloning of microdissected chromosomal DNA Methods of chromosome microdissection including video microscope method and oil chamber method are described Comprised of five chapters this book begins with an overview of the structure and organization of chromosomes followed by a description of methods for preparing and preserving chromosomal DNA in a manner that is useful for cloning and direct analysis Microdissection of metaphase chromosomes and isolation of fragments can be accomplished in one of the three ways described in the next chapter by microdissection using an upright microscope and glass capillaries in an oil chamber by laser microbeam and with the use of an inverted microscope equipped with a video camera and high magnification high resolution lenses A step by step guide to these techniques and solutions for common problems are given following each method Protocols for cloning and identifying genetic sequences from defined chromosome regions particularly using the polymerase chain reaction are also discussed The final chapter focuses on applications of chromosome microdissection such as cloning of disease specific genes and generating sequence tagged sites to be used in large DNA sequencing projects This monograph will be particularly helpful to investigators setting up microdissection systems de novo **National Library of Medicine Current Catalog National** Cloning Stephen D. Fairbanks, 2004 The terms recombinant DNA technology DNA Library of Medicine (U.S.),1993 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 abstract and books sections is provided by title subject and author indexes

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A Practical Guide to Molecular Cloning Bernard Perbal,1988 Chromosome Structural Analysis, 1999-05-20 The DNA of eukaryotes is packaged into chromosomes each chromosome consisting of a very long molecule of DNA and various proteins e g histones and the number of chromosomes being characteristic for the species concerned Chromosome analysis can provide a great deal of information for many aspects of cellular genetics such as DNA replication protein DNA interactions and genetic manipulation. The book is structured in a methodical fashion the introductory chapters are centred around analysis of chromatin with chapters on the mapping of protein DNA interactions in vivo using ligation mediated PCR and the mapping of chromatin associated proteins by formaldehyde cross linking The next chapters concentrate on the study of whole chromosome structure including fission yeast chromosome analysis using FISH and CHIP isolation of vertebrate metaphase chromosomes and their analysis by FISH the study of vertebrate chromosome progression through mitosis and the analysis of mammalian interphase chromosomes by immunofluorescence and FISH There then follow chapters on FISH in whole mount tissues and the analysis of the sub structure of mammalian nuclei in vitro The final two chapters deal with the experimental manipulation of chromosome structure including chromosome assembly in vitro using Xenopus egg extracts and chromosome fragmentation in vertebrate cell lines This comprehensive and informative laboratory manual includes a diverse range of experimental models for the analysis of chromosomes such as vertebrates Drosophila yeast and Xenopus Fully illustrated it focuses on modern techniques and approaches to the study of chromosome structure and will be invaluable to researchers and academic staff in genetics biomedical science and molecular biology The Rough Guide to Genes & Cloning Dr Jess Buxton, Jon Turney, 2007-04-26 Presents information on cell structure DNA chromosomes genetics and family traits gene related health and behavior genetic technologies including cloning and the future of genetic medicine including stem cell research

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