

Chromosome Microdissection and Cloning

A Practical Guide

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Chromosome Microdissection And Cloning A Practical Guide Nabil Hagag

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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 Library of Medicine (U.S.), 1993. First multi year cumulation covers six years 1965-70. *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 abstract and books sections is provided by title subject and author indexes Heredity ,1947 Subject Guide to Books in Print ,1996 **The British National Bibliography** Arthur James Wells,1994 **Chromosome microdissection and cloning** Nabil G. Hagag,1993 **Paperbound Books in Print 1995** Reed Reference Publishing,Reference Reed,1995-12 *Books in Print Supplement* ,1994 **Forthcoming Books** Rose Arny,1994-02

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