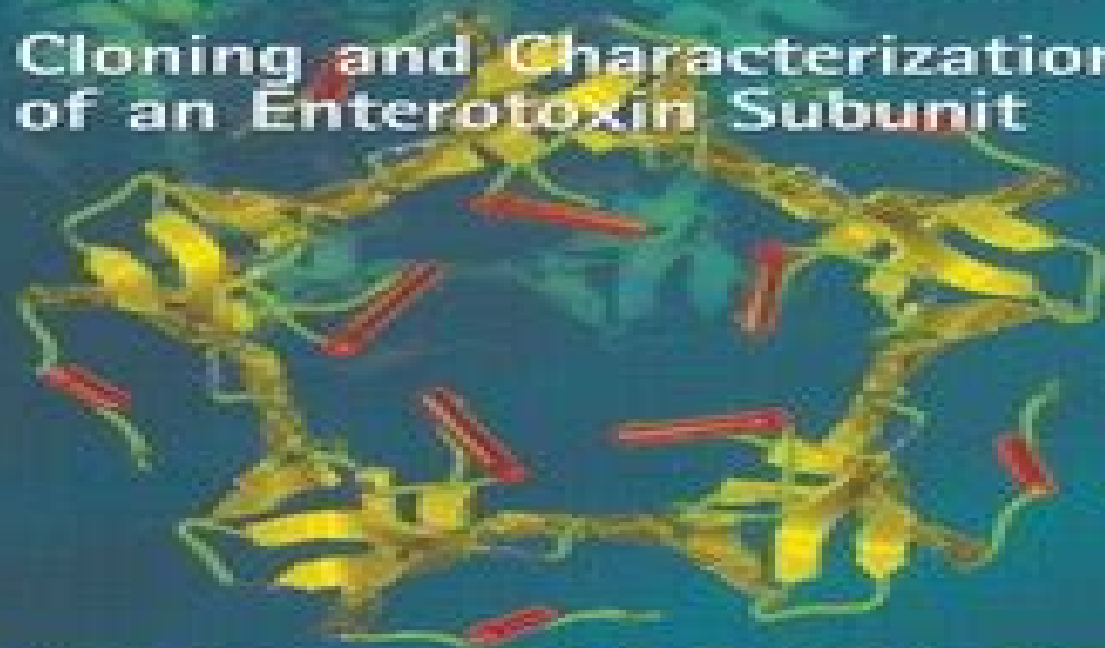


Methods in
**MOLECULAR
BIOLOGY
and PROTEIN
CHEMISTRY**

Cloning and Characterization
of an Enterotoxin Subunit



BRENDA D. SPANGLER

Methods In Molecular Biology And Protein Chemistry

Cloning And Characterization Of An Enterotoxin Subunit

SJ Ball



Methods In Molecular Biology And Protein Chemistry Cloning And Characterization Of An Enterotoxin Subunit:

Methods in Molecular Biology and Protein Chemistry Brenda D. Spangler, 2002-06-14 The enormous advances made in molecular biology have allowed scientists to manipulate DNA with relative ease This means that molecular biology has become a widely used tool for answering scientific questions that may be quite unrelated to genetics and cell biology This new book focuses on the most important techniques needed by undergraduate and post graduate students when undertaking research in this area Written in an accessible style and adopting a discovery approach to encourage the students to explore and experiment for them selves this book will be invaluable to novices required and interested in learning these techniques Students will evaluate the effect of genetic engineering through the practical application of wet biochemistry techniques and prepare mutations that can be evaluated by other classes Coverage will include computer tutorials for sequencing and genomics and will possibly include some coverage of molecular modelling too Guidelines on searching the primary literature oral reports laboratory notebooks record keeping and report writing will either be included within appendices at the back of the book or on a supplementary web site linked to the book 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 *The British National Bibliography* Arthur James Wells, 2002 *Cumulated Index Medicus* ,1981 **Dissertation Abstracts International** ,1985 Recommended Promotions to the Ranks of Professor and Associate Professor University of Michigan. Office of the Provost and Vice President for Academic Affairs, 2002 Conference Papers Index ,1987 Monthly Papers presented at recent meeting held all over the world by scientific

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