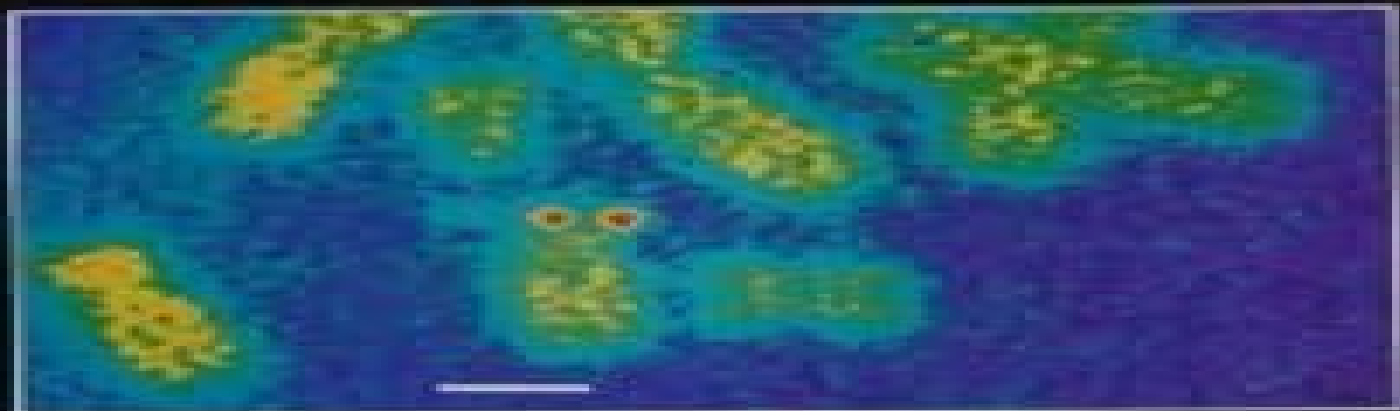


Methods in Molecular Biology

Volume 33

***IN SITU* HYBRIDIZATION PROTOCOLS**

Edited by
K. H. Andy Choo



In Situ Hybridization Protocols Methods In Molecular Biology

Gal Haimovich



In Situ Hybridization Protocols Methods In Molecular Biology:

In Situ Hybridization Protocols Ian A. Darby, Tim D. Hewitson, 2008-02-04 The technique of in situ hybridization in its various forms has been used routinely in many laboratories for a number of years In the post genome era gene arrays and proteomics have allowed us to identify hitherto unknown unrecognized pathways and mechanisms However rather than diminish the importance of in situ hybridization the now widespread use of screening technologies has increased the need to temporally and spatially localize the distribution of mRNA expression Our intention in In Situ Hybridization Protocols is to provide ample information for novices planning to set up the in situ hybridization technique and use it in their laboratory for the first time as well as giving updates of recent developments for those laboratories where in situ hybridization techniques are already in use Despite its widespread significance in situ hybridization has retained a reputation as one of the more difficult and capricious molecular biological techniques This may in part be because of the hybrid nature of the technique which often requires a mixture of molecular biological and histological skills The two techniques are usually taught and acquired in different streams of biological science The step by step and detailed protocols provided in In Situ Hybridization Protocols by researchers active in the field should make it possible for both the molecular biologist with little experience of histology and the histologist with little experience of molecular biology to use the techniques successfully in their laboratories

Methods in Molecular Biology: In situ hybridization protocols John M. Walker, 1984 **In Situ Hybridization Protocols for the Brain** W. Wisden, B. J. Morris, 2002-08-05 This volume of the International Review of Neurobiology was written to assist researchers without any previous experience with in situ hybridization allowing them to follow the protocols and expect good results It contains all the information required for newcomers to achieve successful in situ hybridization results and methods for improving the technique of those already utilizing it Published since 1959 International Review of Neurobiology is a well known series appealing to neuroscientists clinicians psychologists physiologists and pharmacologists Led by an internationally renowned editorial board this important serial publishes both eclectic volumes made up of timely reviews and thematic volumes that focus on recent progress in a specific area of neurobiology research A well known series appealing to neuroscientists clinicians psychologists physiologists and pharmacologists Led by an internationally renowned editorial board this important serial publishes both eclectic volumes made up of timely reviews and thematic volumes that focus on recent progress in a specific area of neurobiology research **Fluorescence In Situ Hybridization (FISH)** Gal Haimovich, 2024-03-19 This volume explores the latest techniques and protocols used by researchers to address unique biological questions model organisms not typically studied by Fluorescent In Situ Hybridization FISH protocols combining FISH with immunofluorescence FISH IF and high throughput experiments The chapters in this book are divided into two parts RNA FISH protocols and DNA FISH protocols Part One covers methods for designing OligoPaint probes and studying distinct aspects of RNA biology such as transcription and splicing dynamics and mRNA and small RNA expression and

localization Part Two discusses DNA repair dynamics gene compaction and chromatin conformation and gene rearrangements in plants insects and mammalian cells Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and thorough Fluorescence In Situ Hybridization FISH Methods and Protocols is a valuable resource that will benefit the broader scientific community in their studies and understanding of this important field

Immunocytochemical Methods and Protocols Lorette C. Javois, 2008-02-02 Lorette Javois timely new 2nd edition revises and updates her widely acclaimed collection of step by step immunocytochemical methods one that is now used in many biological and biomedical research programs The methods are designed for researchers and clinicians who wish to visualize molecules in plant or animal embryos tissue sections cells or organelles In addition to cutting edge protocols for purifying and preparing antibodies light microscopic analysis confocal microscopy FACS and electron microscopy this revised edition contains many new methods for applying immunocytochemical techniques in the clinical laboratory and in combination with in situ hybridization

PRINS and In Situ PCR Protocols Franck Pellestor, 2008-02-03 The in situ hybridization and PCR technologies are now well established molecular techniques for studying chromosomal aneuploidy and rearrangements gene localization and expression and genomic organization Over the last decade we have seen increasing applications in these fields By combining the high sensitivity of the PCR reaction and the cytological localization of target sequences both PRINS and in situ PCR techniques have provided highly powerful complements to FISH for in situ cellular and molecular investigations Both these approaches have several advantages in terms of sensitivity and specificity owing to the use of primers and to the fast kinetics of annealing and elongation reactions in situ In the first edition of PRINS and In Situ PCR Protocols edited by John R Gosden experts in the field presented in detail a variety of applications of PRINS and in situ PCR techniques in a wide range of clinical conditions Since the publication of this successful reference book there have been significant improvements in in situ detection techniques This completely revised and updated second edition presents a comprehensive selection of new procedures developed in the field of PRINS and in situ PCR technologies The book has two sections Part I Basic Methodology contains chapters that provide useful protocols for many variations of PRINS and in situ PCR including a new fast multicolor PRINS method and protocols for PRINS detection of unique sequences in situ

Fluorescence in situ Hybridization (FISH) Joanna M. Bridger, Keith Morris, 2016-08-23 Fluorescence in situ Hybridization FISH belongs to that special category of well established molecular biology techniques that since their inception a few decades ago have succeeded in keeping a prominent position within the constantly expanding list of laboratory procedures for biomedical research and clinical diagnostics The design simplicity and cost effectiveness of the early FISH protocols combined with the significant acceleration of discoveries in related technical areas such as fluorescence microscopy digital imaging and nucleic acid technology have prompted the diversification of the

original technique into an outstanding number of imaginative and useful applications and thus have not only held back its outmoding but have also promoted its expansion into different areas of basic and applied research in the post genomic era. The 34 chapters included in this book aim at portraying the vibrant complexity and diversity of the current FISH protocol landscape providing cutting edge examples of various applications for genetic and developmental research cancer research reproductive medicine diagnostic and prognostic purposes microbial ecology and evolutionary studies. The book is divided in four parts I Core Techniques II Technical Advancements and Novel Adaptations III Translational FISH Applications for Human Genetics and Medicine and IV Protocols for Model Organisms. PRINS and In Situ PCR Protocols Franck Pellestor, 2006-04-01. The in situ hybridization and PCR technologies are now well established molecular techniques for studying chromosomal aneuploidy and rearrangements gene localization and expression and genomic organization. Over the last decade we have seen increasing applications in these fields. By combining the high sensitivity of the PCR reaction and the cytological localization of target sequences both PRINS and in situ PCR techniques have provided highly powerful complements to FISH for in situ cellular and molecular investigations. Both these approaches have several advantages in terms of sensitivity and specificity owing to the use of primers and to the fast kinetics of annealing and elongation reactions in situ. In the first edition of PRINS and In Situ PCR Protocols edited by John R Gosden experts in the field presented in detail a variety of applications of PRINS and in situ PCR techniques in a wide range of clinical conditions. Since the publication of this successful reference book there have been significant improvements in in situ detection techniques. This completely revised and updated second edition presents a comprehensive selection of new procedures developed in the field of PRINS and in situ PCR technologies. The book has two sections. Part I Basic Methodology contains chapters that provide useful protocols for many variations of PRINS and in situ PCR including a new fast multicolor PRINS method and protocols for PRINS detection of unique sequences in situ. Neurotrophin Protocols Robert A. Rush, 2008-02-03. The past decade has seen an extraordinary growth in research interest in neurotrophic factors and the study of the neurotrophin family has led this activity. Nevertheless this area of research has often struggled as a result of techniques that were either inadequate or just emerging from other research fields and disciplines. Neurotrophin Protocols has brought together many leaders in the neurotrophin field who detail their special expertise in a wide variety of techniques. Though most procedures are valid across many different fields of research some of those described here have been developed to address particular issues within the neurotrophic factor field. The protocols cover a broad range of biochemical histological and biological techniques that are often required by the modern laboratory. However all have been written with sufficient detail to allow any laboratory to achieve proficiency without need of reference to other texts. Neurotrophin Protocols is divided into four sections dealing with protein RNA recombinant and in vivo techniques. Protein techniques have in general been less successfully employed than those dealing with RNA or DNA. However procedures that achieve localization and quantification of the neurotrophins are

now being used more extensively Their inclusion here should assist further studies at the protein level Transgenic cell lines and animals are commonplace in the scientific research literature but their inclusion in several chapters in this book provide some novel uses that are not readily available elsewhere

Fluorescence In-Situ Hybridization (FISH) for Microbial Cells Nuno F. Azevedo, Carina Almeida, 2021-03-09 This volume provides a comprehensive review of concepts and protocols related to fluorescence in situ hybridization FISH applied to microbial cells Chapters will serve guide for the design of new probes and the development of novel FISH based protocols Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Fluorescence In Situ Hybridization FISH for Microbial Cells Methods and Concepts aims to ensure successful results in the further study of this vital field

The ELISA Guidebook John R. Crowther, 2008-02-04 John R Crowther provides today's premier practical guide to the understanding and application of ELISA Updating and greatly expanding his widely appreciated earlier publication ELISA Theory and Practice 1995 this important work introduces chapters on such major new topics as checkerboard titrations quality control of testing kit production and control novel monoclonal antibodies validation of assays statistical requirements for data examination and epidemiological considerations With its numerous worked examples detailed instructions and extensive illustrations The ELISA Guidebook offers a powerful synthesis of all the basic concepts and practical experimental details investigators need to understand develop and apply the new ELISA methodology successfully in day to day basic and clinical research

Plant Microtechniques and Protocols Edward Chee Tak Yeung, Claudio Stasolla, Michael John Sumner, Bing Quan Huang, 2015-09-19 A proper understanding of the structural organization of the plant body is essential to any study in plant biology Experimental studies in vivo and in situ will lead to structural physiological and cellular changes of the experimental material To study macroscopic and microscopic changes different histological methods and microtechniques can be used as they provide valuable information of the experimental system In addition the observed structural changes allow investigators to set hypothesis for further studies based on one's own observation Thus proper selection and utilization of microtechniques are a must for the success of a research program At present an up to date collection of protocols are not readily available in the literature The latest work in plant microtechniques was published in 1999 by Ruzin but many others are no longer in print e.g Jensen 1964 O'Brien and McCully 1981 Furthermore a majority of published works focus on techniques related to general processing and staining procedures A comprehensive treatment that encompasses broader applications of microtechniques to other disciplines is lacking e.g archeology wood science etc There is a need to create a comprehensive volume of botanical methods and protocols which includes traditional and novel techniques that can be used by researchers in plant science and investigators in other disciplines that require plant microtechniques in their research and teaching This book covers a wide variety of applications

and brings them up to date to make them understandable and relevant especially to students using the methods for the first time It is our intention to create a useful reference for plant histology and related methods that will serve as a foundation for plant scholars researchers and teachers in the plant sciences Methods in Genomic Neuroscience Hemin R. Chin, Steven O. Moldin, 2001-09-26 The past few years have witnessed extraordinary advances in molecular genetic techniques and the accumulation of structural genomics information and resources in both human and model organisms With the development of new technologies and the availability of resources like the sequence of eukaryotic genomes problems of a previously unthinkable scope Molecular Diagnostics William B. Coleman, Gregory J. Tsongalis, 2013-04-18 Notable practitioners describe how laboratory medicine is practiced today and illuminate how it will function tomorrow as the revolutionary advances afforded by molecular diagnostics become increasingly central to effective analysis Proceeding from a discussion of elementary nucleic acid technology to a review of the more advanced techniques the distinguished contributors lay the groundwork for a comprehensive understanding of their applications throughout clinical medicine The result is a detailed description of those molecular technologies currently used in diagnostic laboratories as well as those that seem particularly promising Detailed discussions of specific clinical applications include those for cancer hematological malignancies cardiovascular disease and neuromuscular endocrine and infectious diseases **Developmental Biology Protocols** Rocky S. Tuan, Cecilia W. Lo, 2008-02-02 Developmental biology is one of the most exciting and fast growing fields today In part this is so because the subject matter deals with the innately fascinating biological events changes in form structure and function of the organism The other reason for much of the excitement in developmental biology is that the field has truly become the unifying melting pot of biology and provides a framework that integrates anatomy physiology genetics biochemistry and cellular and molecular biology as well as evolutionary biology No longer is the study of embryonic development merely embryology In fact development biology has produced important paradigms for both basic and clinical biomedical sciences Though modern developmental biology has its roots in experimental embryology and the even more classical chemical embryology the recent explosive and remarkable advances in developmental biology are critically linked to the advent of the cellular and molecular biology revolution The impressive arsenal of experimental and analytical tools derived from cell and molecular biology which promise to continue to expand together with the exponentially developing sophistication in functional imaging and information technologies guarantee that the study of the developing embryo will contribute one of the most captivating areas of biological research in the next millennium Experimental Methods in Wastewater Treatment Mark C. M. van Loosdrecht, Per Halkjaer Nielsen, C. M. Lopez-Vazquez, Damir Brdjanovic, 2016-05-15 Over the past twenty years the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based approaches to a fundamentally based first principles approach embracing chemistry microbiology and physical and bioprocess engineering often involving experimental laboratory work and techniques Many of these experimental methods

and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice For sector professionals especially a new generation of young scientists and engineers entering the wastewater treatment profession the quantity complexity and diversity of these new developments can be overwhelming particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available In addition information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines This book seeks to address these deficiencies It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world *Experimental Methods in Wastewater Treatment* forms part of the internet based curriculum in wastewater treatment at UNESCO IHE and as such may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do The book is written for undergraduate and postgraduate students researchers laboratory staff plant operators consultants and other sector professionals

Pathology of the Developing Mouse Brad Bolon, 2015-04-24 *Pathology of the Developing Mouse* provides in so far as feasible one complete reference on the design analysis and interpretation of abnormal findings that may be detected in developing mice before and shortly after birth In particular this book is designed specifically to be not only a how to do manual for developmental pathology exper

Biomedical Technology and Devices Handbook George Zouridakis, 2003-08-14 Concise yet comprehensive the *Biomedical Technology and Devices Handbook* illuminates the equipment devices and techniques used in modern medicine to diagnose treat and monitor human illnesses With topics ranging from the basic procedures like blood pressure measurement to cutting edge imaging equipment biological tests and genetic engineering

Practical Manual on Plant Cytogenetics Ram J. Singh, 2017-11-27 Earlier books on the handling of plant chromosomes have not included many of the innovations in cytological techniques for many important crops that have become available in recent years including information on associating genes with chromosomes The aim of this book is to compile all the plant cytogenetic techniques previously published in earlier books into a laboratory manual The first part of the book describes standard cytological techniques that are routinely used by students The second part covers methods used for specific crops for which common cytological methods do not work satisfactorily The third part discusses cytogenetic techniques cytology and genetics for physically locating genes on specific chromosomes This novel book will be highly useful to students teachers and researchers as it is a convenient and comprehensive reference for all plant cytogenetic techniques and protocols

Flavoprotein Protocols Steven K. Chapman, Graeme A. Reid, 2008-02-03 As a scientist with an interest in proteins you will at some time in your career isolate an enzyme that turns out to be yellow or perhaps you already have Alternatively you may identify a polypeptide sequence that is related to known flavin containing proteins This may or may not be your first encounter with flavoproteins However even if you are an old hand in the field you may not have exploited the full range of experimental approaches

applicable to the study of flavoproteins We hope that Flavoprotein Protocols will encourage you to do so In this volume we have sought to bring together a range of experimental methods of value to researchers with an interest in flavoproteins whether or not these researchers have experience in this area A broad range of techniques from the everyday to the more specialized is described by scientists who are experts in their fields and who have extensive practical experience with flavoproteins The wide range of approaches from wet chemistry to dry computation has as a consequence demanded a range of formats Where appropriate particularly for analytical methods the protocol described is laid out in easy to follow steps In other cases e g the more advanced spectroscopies and computational methods it is far more apt to describe the general approach and relevance of the methods We hope this wide ranging approach will sow the seeds of many future collaborations between laboratories and further our knowledge and understanding of how flavoproteins work

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