

PRINS and *In Situ* PCR Protocols

SECOND EDITION

Edited by

Franck Pellestor

 **HUMANA PRESS**

Prins And In Situ Pcr Protocols

John M. Walker



Prins And In Situ Pcr Protocols:

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 **PCR Protocols** John M. S. Bartlett, David

Stirling, 2008-02-03 In this new edition the editors have thoroughly updated and dramatically expanded the number of protocols to take advantage of the newest technologies used in all branches of research and clinical medicine today These proven methods include real time PCR SNP analysis nested PCR direct PCR and long range PCR Among the highlights are chapters on genome profiling by SAGE differential display and chip technologies the amplification of whole genome DNA by random degenerate oligonucleotide PCR and the refinement of PCR methods for the analysis of fragmented DNA from fixed tissues Each fully tested protocol is described in step by step detail by an established expert in the field and includes a background introduction outlining the principle behind the technique equipment and reagent lists tips on trouble shooting and avoiding known pitfalls and where needed a discussion of the interpretation and use of results **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

PRINS and In Situ PCR Protocols. Methods in Molecular Biology Franck Pellestor, 2006 This completely revised and updated edition takes advantage of the many new developments and applications that have occurred in PRINS and in situ PCR technology including a new fast multicolor PRINS method for identifying human chromosomes PRINS protocols for in situ detection of unique sequences and point mutation analysis a new dideoxy PRINS procedure and in situ PCR and PRINS protocols for plants The authors describe in detail various applications of PRINS in human detection of gene deletions in cancer detection of fetal cells in maternal blood and assessment of aneuploidy in brain tissues and embryos as well as plant cells Readily reproducible in situ PCR techniques are also presented for the detection of cytomegalovirus and for use in combination with microdissection In situ RT PCR techniques are also given for use in plant or cancer investigation

PRINS and PNA Technologies in Chromosomal Investigations Franck Pellestor, 2007 Book CD Advances in molecular biotechnology have greatly improved the sensitivity and the efficiency of methods utilised for genetic investigations and diagnosis In the domain of chromosome analysis the introduction of molecular techniques has led to the development of a new approach called Molecular Cytogenetics which has surpassed previously available techniques to become a foremost biological method The fluorescence in situ hybridisation FISH is quickly became the standard technique for in situ chromosomal investigations as illustrated by its large variety of applications in research and diagnosis However during the last decade alternative methods to FISH have been introduced and have shown to be valuable in detecting chromosomes and quantifying chromosomal abnormalities These alternative procedures are the Primed IN Situ PRINS labelling and the Peptide Nucleic Acid PNA probes The two procedures present several advantages for the in situ detection of nucleic acid sequences such as the small size of PNA probes and PRINS primers or the fast kinetics of PRINS and PNA labelling reactions that make them very attractive for a number of cytogenetic purposes This book provides a valuable introduction and overview of the principles and the applications of alternative approaches in the field of molecular cytogenetics

Methods in Molecular Biology: PRINS and in situ PCR protocols John M. Walker, 1984

Endocrine Pathology: Ricardo V. Lloyd, 2010-01-24 Endocrine Pathology Differential Diagnosis and Molecular Advances Second Edition provides detailed coverage of endocrine pathology with extensive discussion of the differential diagnosis as well as presentation of molecular pathobiology of the major endocrine organs Revised and expanded from the first edition each chapter written by leaders in their respective field has been updated with the latest advances that are transforming the field of endocrine pathology Richly illustrated with color

photomicrographs useful diagrams and line drawings each chapter includes differential diagnosis of common and uncommon lesions as well as material on molecular developments with emphasis on the molecular findings that are most helpful in the diagnosis of specific disorders Endocrine Pathology Differential Diagnosis and Molecular Advances Second Edition provides a useful and well organized resource designed not only for the endocrine pathologist and the general surgical pathologist but also for the clinical endocrinologist and the endocrine surgeon

Principles and Technical Aspects of PCR

Amplification Elizabeth van Pelt-Verkuil,Alex van Belkum,John P. Hays,2008-03-14 Kary Mullis was awarded a Nobel Prize for inventing the PCR technique more than a decade ago in 1993 Since its discovery multiple adaptations and variations of the standard PCR technique have been described This publication aims to provide the reader with a guide to the standard PCR technique and its many available variants with particular emphasis being placed on the role of these PCR techniques in the clinical diagnostic laboratory the central theme of this book

Fluorescence In Situ Hybridization (FISH) - Application Guide Thomas Liehr,2008-11-26 This book is a unique source of information on the present state of the exciting field of molecular cytogenetics and how it can be applied in research and diagnostics The basic techniques of fluorescence in situ hybridization and primed in situ hybridization PRINS are outlined the multiple approaches and probe sets that are now available for these techniques are described and applications of them are presented in 36 chapters by authors from ten different countries around the world The book not only provides the reader with basic and background knowledge on the topic but also gives detailed protocols that show how molecular cytogenetics is currently performed by specialists in this field The FISH Application Guide initially provides an overview of the historical development of molecular cytogenetics its basic procedures the equipment required and probe generation The book then describes tips and tricks for making different tissues available for molecular cytogenetic studies These are followed by chapters on various multicolor FISH probe sets their availability and their potential for use in combination with other approaches The possible applications that are shown encompass the characterization of marker chromosomes cryptic cytogenetic aberrations and epigenetic changes in humans by interphase and metaphase cytogenetics studies of nuclear architecture as well as the application of molecular cytogenetics to zoology botany and microbiology

Chromosome Painting Arun Kumar Sharma,Archana Sharma,2011-06-27

Chromosome Painting is the most modern and novel technique for directly identifying several gene sequences simultaneously in the chromosome with the aid of specific probes in molecular hybridization Its resolution ranges from single copy to entire genome sequences It is now applied in plant animal and human systems in gene mapping identification of genetic disorders evolutionary studies and gene transfer experiments This treatise is the first of its kind to cover the technique with all its modifications and applications It is designed for regular use by postgraduate students and research workers in cell and molecular genetics plant and animal sciences agriculture medicine and phylogenetic studies

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