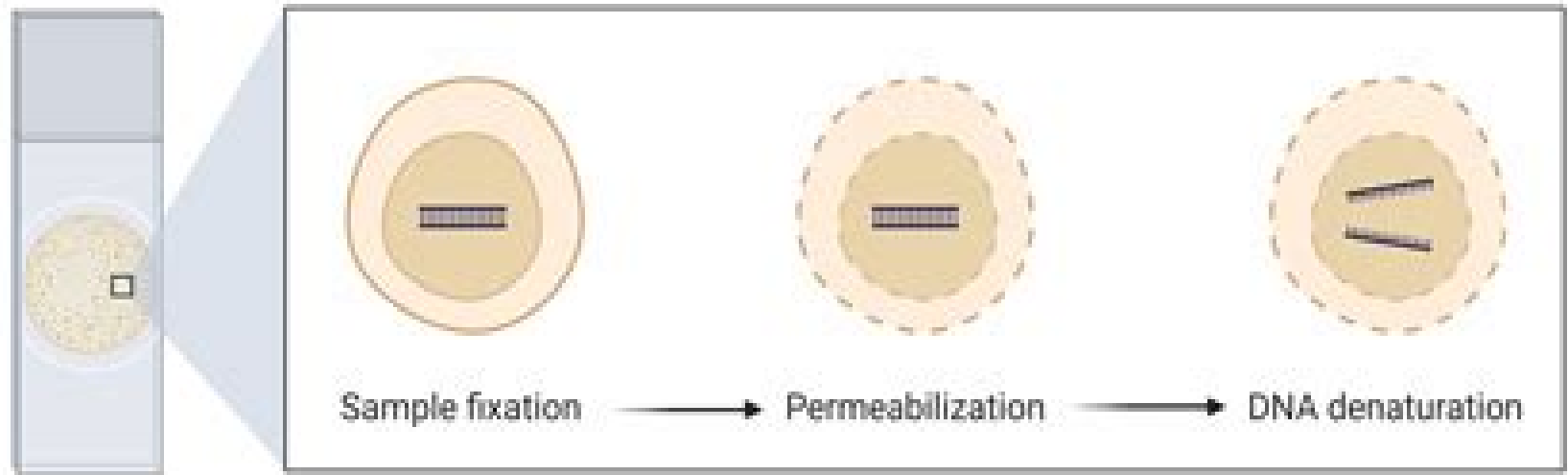
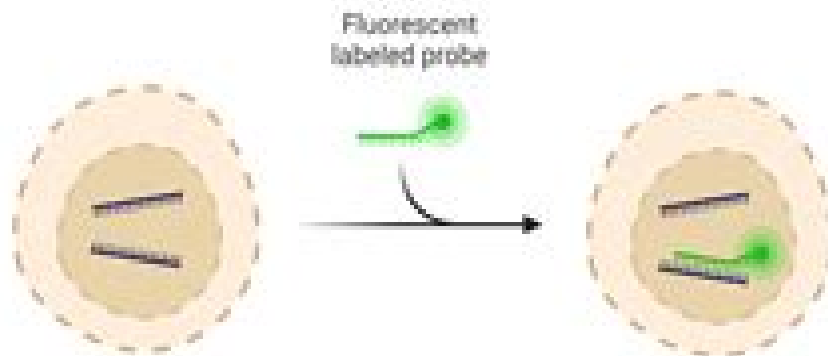


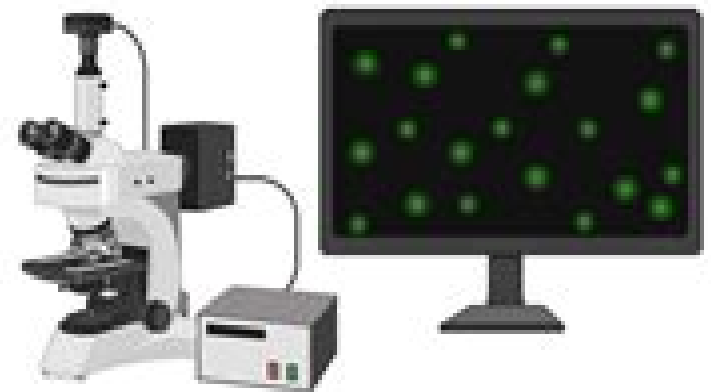
① Sample preparation



② Hybridization



③ Imaging



Fluorescence In Situ Hybridisation

Bernd W. Rautenstrauß, Thomas Liehr



Fluorescence In Situ Hybridisation

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

Fluorescence In Situ Hybridization (FISH) Gal Haimovich,

FISH Technology Bernd W. Rautenstraß, 2002-02-14 Fluorescence in situ hybridization FISH has been developed as a powerful technology which allows direct visualisation or localisation of genomic alterations The technique has been adopted to a range of applications in both medicine especially in the areas of diagnostic cytogenetics and biology Topics described in this manual include FISH on native human tissues such as blood bone marrow epithelial cells hair root cells amniotic fluid cells human sperm cells FISH on archival human tissues such as formalin fixed and paraffin embedded tissue sections cryofixed tissue simultaneous detection of apoptosis and expression of apoptosis related genes comparative genomic hybridization and special FISH techniques

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

Fluorescence In Situ Hybridization (FISH) - Application Guide Thomas Liehr, 2008-11-18 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

Fluorescence In-Situ Hybridization (FISH) for Microbial Cells Nuno F. Azevedo, Carina Almeida, 2021

Fluorescence In Situ Hybridization ,2011

FISH Technology Bernd W. Rautenstrauß, Thomas Liehr, 2012-12-06 Fluorescence in situ hybridization FISH has been developed as a powerful technology which allows direct visualisation or localisation of genomic alterations The technique has been adopted to a range of applications in both medicine especially in the areas of diagnostic cytogenetics and biology Topics described in this manual include FISH on native human tissues such as blood bone marrow epithelial cells hair root cells amniotic fluid cells human sperm cells FISH on archival human tissues such as formalin fixed and paraffin embedded tissue sections cryofixed tissue simultaneous detection of apoptosis and expression of apoptosis related genes comparative genomic hybridization and special FISH techniques

In Situ Hybridization David G. Wilkinson, 1998-11-26 In situ hybridization is used to reveal the location of specific nucleic acid sequences on chromosomes or in tissues Visualization of the location of genes on chromosomes or of specific mRNAs or viruses in tissues is crucial for understanding the organization regulation and function of genes It is therefore a core technique in all areas of biomedical research *In Situ Hybridization A Practical Approach 2e* is the second edition of one of the most successful Practical Approach books published in 1992 Since the first edition was published a number of important technical advances have been made The new edition has been thoroughly updated to contain protocols detailing the major techniques of in situ hybridization currently in use in situ hybridization to mRNA with oligonucleotide and RNA probes radiolabelled and hapten labelled analysis using light and electron microscopes whole mount in situ hybridization double detection of RNAs and RNA plus protein and fluorescent in situ hybridization to detect chromosomal sequences The protocols are complemented by advice on strategies for successful results descriptions of the theoretical basis of in situ hybridization and important new developments in gene expression databases The procedures described are widely applicable to many systems The use of in situ hybridization in PCR is covered in a separate volume Herrington and O Leary Eds PCR 3 PCR in situ hybridization A Practical Approach OUP 1997 All the authors have extensive practical experience of establishing reliable techniques of in situ hybridization This book will be useful to all researchers at all levels who use in situ hybridization

Introduction to Fluorescence In Situ Hybridization Michael Andreeff, Daniel Pinkel, 1999-12-03 Introduction to Fluorescence in Situ Hybridization Principles and Clinical Applications Edited by Michael Andreeff M D PH D and Daniel Pinkel PH D Fluorescence In Situ Hybridization FISH has become an essential tool in the diagnosis and management of a variety of solid tumors and hematologic malignancies in the clinical setting as well as an aid in the identification of particular genetic disorders Introduction to Fluorescence In Situ Hybridization provides a solid groundwork in the basic principles and techniques of FISH and covers in detail the applications of this technology to cancer in humans including tumorigenesis prostate and breast tumors myeloid leukemias and lymphoproliferative malignancies The final section of the book is devoted to the applications of FISH techniques to genetic analysis This incorporates radiation biodosimetry in chromosomal aberrations genetic toxicology and multiprobe methods for detecting chromosomally defective sperm in humans and mice plus rapid prenatal diagnosis of chromosomal aneuploidies and detection of fetal trisomy Edited by two leading basic and clinical investigators in the field with state of the art contributions from expert subspecialists and featuring over 200 color illustrations Introduction to Fluorescence In Situ Hybridization is an essential reference for clinicians and investigators in oncology genetics and cytometry

Basic and Advanced Laboratory Techniques in Histopathology and Cytology Pranab Dey, 2023-01-01 The second edition of this well received book provides detailed information on the basic and advanced laboratory techniques in histopathology and cytology It offers clear guidance on the principles and techniques of routine and special laboratory techniques It also covers advanced laboratory techniques such as immunocytochemistry flow cytometry liquid based cytology polymerase chain reactions tissue microarray molecular technology etc The book s second edition covers several important recent topics with many new chapters such as liquid biopsy artificial neural network digital pathology and next generation sequencing Each chapter elucidates basic principle practical methods troubleshooting and clinical applications of the technique It includes multiple colored line drawings microphotographs and tables to illustrate each technique The book is a helpful guide to the post graduate students and fellows in pathology practicing pathologists as well as laboratory technicians and research students

Modern Techniques in Cytopathology M.M. Bui, L. Pantanowitz, 2020-01-13 In the era of precision medicine physicians are increasingly in need of more definitive diagnostic prognostic and predictive information derived from small biopsy specimens such as cytology samples in order to guide effective patient care Cytopathology is well poised to meet this challenge Whilst the traditional cytomorphologic component of cytology practice is still valid enormous advances have been made in the field of cytopathology thanks to transformative technology and innovative individuals that have augmented the cytologists ability to meet the demands of modern medicine The purpose of this book is to describe illustrate and review many of the most recent developments regarding modern techniques employed in cytopathology This latest monograph is intended for all cytologists including cytopathologists cytotechnologists cytology lab assistants trainees research scientists and anyone who is interested in the field of cytopathology We have invited pioneering experts in their respective fields to author these chapters This book is not only the culmination of their groundbreaking work and effort but also presents a critical review of the current literature We have attempted to provide readers with an informative and comprehensive aid so that they may better appreciate how emerging technology has been applied to cytology Each chapter in this book presents a stand alone contemporary review of emerging topics in cytopathology We hope that you will find this monograph thought provoking and a valuable reference for your practice

Fluorescence in Situ Hybridization Methods for Clinical Laboratories; Approved Guideline James T. Mascarello, 2013-08-01

The AGT Cytogenetics Laboratory Manual Marilyn S. Arsham, Margaret J. Barch, Helen J. Lawce, 2017-04-24 Cytogenetics is the study of chromosome morphology structure pathology function and behavior The field has evolved to embrace molecular cytogenetic changes now termed cytogenomics Cytogeneticists utilize an assortment of procedures to investigate the full complement of chromosomes and or a targeted region within a specific chromosome in metaphase or interphase Tools include routine analysis of G banded chromosomes specialized stains that address specific chromosomal structures and molecular probes such as fluorescence in situ hybridization FISH and chromosome microarray analysis which employ a variety of methods to highlight a region as small as a single specific genetic sequence under investigation The AGT Cytogenetics Laboratory Manual Fourth Edition offers a comprehensive description of the diagnostic tests offered by the clinical laboratory and explains the science behind them One of the most valuable assets is its rich compilation of laboratory tested protocols currently being used in leading laboratories along with practical advice for nearly every area of interest to cytogeneticists In addition to covering essential topics that have been the backbone of cytogenetics for over 60 years such as the basic components of a cell use of a microscope human tissue processing for cytogenetic analysis prenatal constitutional and neoplastic laboratory safety and the mechanisms behind chromosome rearrangement and aneuploidy this edition introduces new and expanded chapters by experts in the field Some of these new topics include a unique collection of chromosome heteromorphisms clinical examples of genomic imprinting an example driven overview of chromosomal microarray mathematics specifically geared for the cytogeneticist usage of ISCN s cytogenetic language to describe chromosome changes tips for laboratory management examples of laboratory information systems a collection of internet and library resources and a special chapter on animal chromosomes for the research and zoo cytogeneticist The range of topics is thus broad yet comprehensive offering the student a resource that teaches the procedures performed in the cytogenetics laboratory environment and the laboratory professional with a peer reviewed reference that explores the basis of each of these procedures This makes it a useful resource for researchers clinicians and lab professionals as well as students in a university or medical school setting

Fluorescence in Situ Hybridization Methods for Clinical Laboratories Jame T. Mascarello, 2013

Molecular Cytogenetics Yao-Shan Fan, 2008-02-05 The new techniques of molecular cytogenetics mainly fluorescence in situ hybridization FISH of DNA probes to metaphase chromosomes or interphase nuclei have been developed in the past two decades Many FISH techniques have been implemented for diagnostic services whereas some others are mainly used for investigational purposes Several hundreds of FISH probes and hybridization kits are now commercially available and the list is growing rapidly FISH has been widely used as a powerful diagnostic tool in many areas of medicine including pediatrics medical genetics maternal fetal medicine reproductive medicine pathology hematology and oncology Frequently a physician may be puzzled by the variety of FISH techniques and wonder what test to order It is not uncommon that a sample is referred to a laboratory for FISH without indicating a specific test On the other hand a cytogeneticist or a technologist in a laboratory needs from case to case to determine which procedure to perform and which probe to use for an informative result To obtain the best results one must use the right DNA probes and have reliable protocols and measures of quality assurance in place Also one must have sufficient knowledge in both traditional and molecular cytogenetics as well as the particular areas of medicine for which the test is used in order to appropriately interpret the FISH results and to correlate them with clinical diagnosis treatment and prognosis

Chromosome Structure and Aberrations Tariq Ahmad Bhat,Aijaz Ahmad Wani,2017-02-08 This book is a compilation of various chapters contributed by a group of leading researchers from different countries and covering up to date information based on published reports and personal experience of authors in the field of cytogenetics Beginning with the introduction of chromosome the subsequent chapters on organization of genetic material karyotype evolution structural and numerical variations in chromosomes B chromosomes and chromosomal aberrations provide an in depth knowledge and easy understanding of the subject matter A special feature of the book is the inclusion of a series of chapters on various types of chromosomal aberrations and their impact on breeding behaviour and crop improvement The possible mechanism their consequences and role in genetic analysis has been emphasized in these chapters A few chapters have also been dedicated on various techniques routinely used in the laboratory by students and researchers Each chapter ends with an extensive bibliography so that the students and researchers may find it relevant to consult more literature on the subject than a book of this size can offer The book is intended to fulfill the needs of undergraduate and post graduate students of botany zoology and agriculture besides teachers and researchers engaged in the field of genetics cytogenetics and molecular genetics In general the readers will find each chapter of the book informative and easy to understand

Fluorescence In Situ Hybridization (FISH) in the Analysis of a Balanced X;15 Translocation ,1995

An Investigation of Fluorescence in Situ Hybridisation (FISH) as a Routine Tool to Monitor Sulphate-reducing Bacteria in Oil Field Systems Energy Institute (Great Britain),2009

The Functional Nucleus David P. Bazett-Jones,Graham Dellaire,2016-10-17 This book gives an in depth overview on nuclear structure and function It clearly shows that the epigenome and the three dimensional organization of the nucleus are not independent properties The intimate relationship between the location and the epigenetic modifications of gene loci is highlighted Finally it shows that the complex three dimensional organization of the nucleus is not just of academic interest The structure composition and function of virtually all of the sub nuclear compartments identified so far can be implicated to a list of human genetic diseases Hence a detailed elucidation of how these domains are assembled and function will provide new opportunities for therapeutic intervention in clinical practice

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