

Single Cell Diagnostics

Methods and Protocols

Edited by

Alan Thornhill



Single Cell Diagnostics Methods And Protocols Methods In Molecular Medicine

Meral Beksac



Single Cell Diagnostics Methods And Protocols Methods In Molecular Medicine:

Single Cell Diagnostics Alan R. Thornhill, 2008-02-02 This book applies modern molecular diagnostic techniques to the analysis of single cells small numbers of cells or cell extracts Emphasis is placed on non invasive analysis of single cell metabolites and the direct analysis of RNA and DNA from single cells with a focus on polymerase chain reaction and fluorescence in situ hybridization In particular this handbook is essential for practitioners providing care for couples seeking treatment for infertility

Vascular Biology Protocols Nair Sreejayan, Jun Ren, 2008-07-25 Over the past decades the pathogenesis diagnosis treatment and prevention of cardiovascular diseases have been benefited significantly from intensive research activities In order to provide a comprehensive manual in a field that has become as broad and deep as cardiovascular medicine this volume of Methods in Molecular Medicine covers a wide spectrum of in vivo and in vitro techniques encompassing biochemical pharmacological and molecular biology disciplines which are currently used to assess vascular disease progression Each chapter included in this volume focuses on a specific vascular biology technique and describes various applications as well as caveats of these techniques The protocols included here are described in detail allowing beginners with little experience in the field of vascular biology to embark on new research projects

Clinical Bioinformatics Ronald J.A. Trent, 2007-12-18 With the ever increasing volume of information in clinical medicine researchers and health professionals need computer based storage processing and dissemination In this book leading experts in the field provide a series of articles focusing on software applications used to translate information into outcomes of clinical relevance This book is the perfect guide for researchers and clinical scientists working in this emerging omics era

Microtubule Protocols Jun Zhou, 2007-08-23 Microtubules are essential components of the cytoskeleton and play critical roles in a variety of cell processes including cell shaping intracellular tracking cell division and cell migration Microtubule Protocols presents a comprehensive collection of essential and up to date methods for studying both the biology of microtubules and the mechanisms of action of microtubule interacting drugs The straightforward presentation of readily reproducible protocols is a hallmark of the Methods in Molecular Medicine™ series and is evident in this volume Methods presented range from the purification and characterization of microtubule proteins analysis of post translational modifications of tubulin and determination of microtubule structure to the visualization of microtubule and spindle behavior measurement of microtubule dynamics and examination of microtubule mediated cellular processes Both basic scientists and clinical researchers will benefit from this collection of state of the art protocols for microtubule research

Tissue Engineering Hansjörg Hauser, Martin M. Fussenegger, 2007-07-27 Features Leading experts present their own most recent advances Includes a wide spectrum of methods representing tissue engineering in many diverse disciplines Supplies an understanding of diverse technologies and methods

New Antibiotic Targets W. Scott Champney, 2008-01-15 This book examines specific techniques which can be used to explore new drug targets and the effectiveness of new antibiotics By testing new

antimicrobial agents and modified existing drugs the most vulnerable cell processes such as cell wall and membrane synthesis DNA replication RNA transcription and protein synthesis can be better exploited This in depth volume however delves even deeper by identifying additional novel cellular targets for these new therapies The book will provide laboratory investigators with the vital tools they need to test the antimicrobial potential of products and to curb the rise of so many infectious diseases

Cardiovascular Disease, Volume 1 Qing Wang, 2007-10-26 Cardiovascular disease is the leading cause of death in developed countries but is quickly becoming an epidemic in such well populated countries as China India and other developing nations Cardiovascular research is the key to the prevention diagnosis and management of cardiovascular disease Vigorous and cross disciplinary approaches are required for successful cardiovascular research As the boundaries between different scientific disciplines particularly in the life sciences are weakening and disappearing a successful investigator needs to be competent in many different areas including genetics cell biology biochemistry physiology and structural biology The newly developed field of molecular medicine is a cross disciplinary science that seeks to comprehend disease causes and mechanisms at the molecular level and to apply this basic research to the prevention diagnosis and treatment of diseases and disorders This volume in the Methods in Molecular Medicine series Cardiovascular Disease provides comprehensive coverage of both basic and the most advanced approaches to the study and characterization of cardiovascular disease These methods will advance knowledge of the mechanisms diagnoses and treatments of cardiovascular disease Cardiovascular Disease is a timely volume in which the theory and principles of each method are described in the Introduction section followed by a detailed description of the materials and equipment needed and step by step protocols for successful execution of the method A notes section provides advice for potential problems any modifications and alternative methods

Cardiovascular Disease, Volume 2 Qing Wang, 2007-10-26 Cardiovascular disease is the leading cause of death in developed countries but is quickly becoming an epidemic in such well populated countries as China India and other developing nations Cardiovascular research is the key to the prevention diagnosis and management of cardiovascular disease Vigorous and cross disciplinary approaches are required for successful cardiovascular research As the boundaries between different scientific disciplines particularly in the life sciences are weakening and disappearing a successful investigator needs to be competent in many different areas including genetics cell biology biochemistry physiology and structural biology The newly developed field of molecular medicine is a cross disciplinary science that seeks to comprehend disease causes and mechanisms at the molecular level and to apply this basic research to the prevention diagnosis and treatment of diseases and disorders This volume in the Methods in Molecular Medicine series Cardiovascular Disease provides comprehensive coverage of both basic and the most advanced approaches to the study and characterization of cardiovascular disease These methods will advance knowledge of the mechanisms diagnoses and treatments of cardiovascular disease Cardiovascular Disease is a timely volume in which the theory and principles of each

method are described in the Introduction section followed by a detailed description of the materials and equipment needed and step by step protocols for successful execution of the method A notes section provides advice for potential problems any modifications and alternative methods

Bone Marrow and Stem Cell Transplantation Meral Beksaç,2007-05-03 This volume is a compendium of cutting edge molecular methods for the successful transplantation of hematopoietic stem cells The contributors are world renown leaders in the field They describe promising tools for stem cell transplant research models such as in vivo bioluminescence imaging They discuss HLA typing PCR SSP typing and HLA antigens This volume is an invaluable source for biochemists molecular biologists and clinicians

DNA Vaccines Mark W. Saltzman,Hong Shen,Janet L. Brandsma,2008-02-02 In the early 1990s almost 200 yr after Edward Jenner demonstrated the effectiveness of the smallpox vaccine a new paradigm for vaccination emerged The conventional method of vaccination required delivery of whole pathogens or structural subunits but in this new approach DNA or genetic information was administered to elicit an immunological response Once it was observed that plasmid DNA delivered in vivo led to production of an encoded transgene 1 two ground breaking studies demonstrated that immunological responses could be generated against antigenic transgenes via plasmid DNA delivered by DNA vaccination as this approach is called 2 3 The appearance of this new vaccination strategy coincided with advances in molecular biology which provided new tools to study and manipulate the basic elements of an organism's genome and also could also be applied to the design and production of DNA vaccines DNA Vaccines is a major updated and enhancement of the first edition It reviews state of the art methods in DNA vaccine technology with chapters describing DNA vaccine design delivery systems adjuvants current applications methods of production and quality control Consistent with the approach of the Methods in Molecular Medicine series these chapters contain detailed practical procedures on the latest DNA vaccine technology The enthusiasm for DNA vaccine technology is made clear by the number of research studies published on this topic since the mid 1990s

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