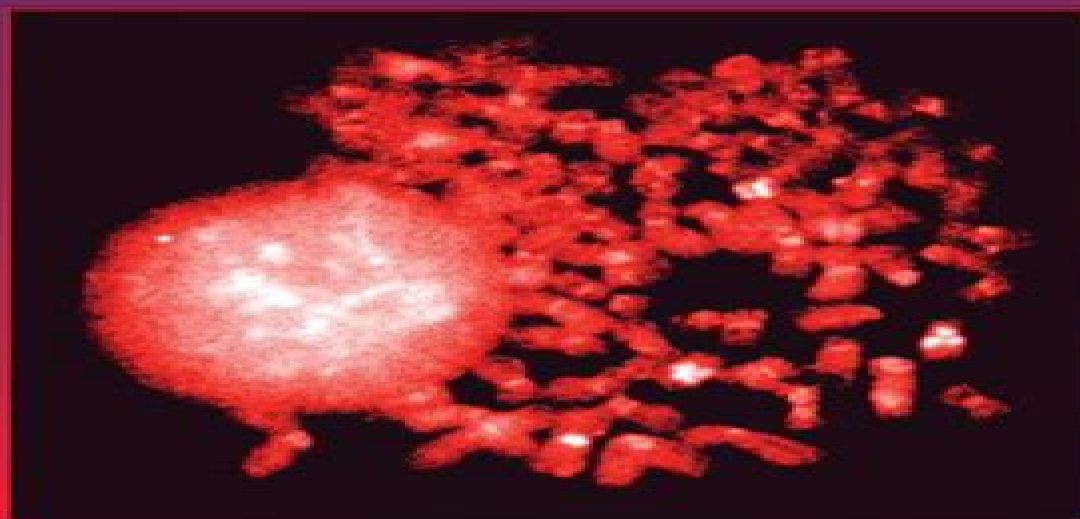


Ovarian Cancer

Methods and Protocols

Edited by

John M. S. Bartlett



Humana Press

Ovarian Cancer Methods And Protocols Methods In Molecular Medicine 39

Christopher A. Klug, Craig T. Jordan



Ovarian Cancer Methods And Protocols Methods In Molecular Medicine 39:

Ovarian Cancer John M. S. Bartlett, 2008-02-02 If there is one aspect of current cancer research that represents a major challenge in both novice and experienced researchers it is the rapid advance in our understanding of the disease Researchers can be required to switch from analysis of gene expression to kinetics of protein activation from genetic studies to the analysis of protein function Cancers are highly complex disease systems and researchers aiming to understand the functioning of cancer systems require access to a wide range of laboratory techniques from a broad range of research disciplines Increasingly however published methods are incomplete or refer back to a series of previous publications each containing only a small part of the complete protocol The aim of *Ovarian Cancer Methods and Protocols* is to provide for ovarian cancer researchers in the first instance a laboratory handbook that will facilitate research into cancer systems by providing a series of expert protocols with proven efficacy across a broad range of technical expertise Thus there are sections on tumor genetics and cellular signal transduction as well as sections on apoptosis and RNA analysis The value of *Ovarian Cancer Methods and Protocols* to the ovarian cancer researcher will I trust be considerably enhanced by 1 the provision of a series of overviews relating to the biology diagnosis and treatment of this important neoplasm and 2 the provision of a series of technical overviews introducing each part that provides an expert review of the applications and pitfalls of the various techniques included

Antibiotic Resistance Methods and Protocols Stephen H. Gillespie, 2008-02-01 At a time of rising concern about drug resistance and falling output of new antibacterial compounds antibiotic research has once again returned to the forefront of medical science In *Antibiotic Resistance Methods and Protocols* Stephen Gillespie and a panel of leading clinical and diagnostic microbiologists describe a series of detailed molecular and physical methods designed to study the growing problem of antibiotic resistance as well as facilitate new antibiotic research programs for its effective redress The techniques range widely from those that provide rapid diagnosis via DNA amplification and phage display to those for plotting the transmission of resistant organisms and investigating their epidemiology The methods are readily adaptable to a wide range of resistant bacterial organisms In order to ensure successful results each method is described in minute detail and includes tips on avoiding pitfalls Practical and wide ranging *Antibiotic Resistance Methods and Protocols* provides a collection of indispensable techniques not only for illuminating the basic biology of antimicrobial resistance but also for developing and implementing new diagnostic and epidemiological tools

Molecular Biology of Cancer Fiona Macdonald, Christopher Ford, Alan Casson, 2004-06-02 *Molecular Biology of Cancer* has been extensively revised and covers hereditary cancer microarray technology and increased study of childhood cancers It continues to provide a detailed overview of the process which lead to the development and proliferation of cancer cells including the techniques available for their study It also describes the means by which tumor suppressor genes and oncogenes may be used in the diagnosis and in determining the prognosis of a wide variety of cancers including breast genitourinary lung and gastrointestinal cancer

Cystic Fibrosis Methods and Protocols William R. Skach, 2008-02-02 Since the cloning of the cystic fibrosis transmembrane conductance re lator CFTR nearly a decade ago cystic fibrosis CF research has witnessed a dramatic expansion into new scientific areas Basic researchers clinicians and patients increasingly rely on fundamental techniques of genetics molecular biology electrophysiology biochemistry cell biology microbiology and immunology to understand the molecular basis of this complex disease Research into the pathophysiology of CF has established numerous paradigms of ion channel dysfunction that extend from inflammation and infection in the airways of patients to basic mechanisms of protein processing and regulation in intracellular components With these rapid advances has come an increasing need for research scientists to understand and utilize a growing array of basic laboratory tools This volume of *Methods in Molecular Medicine Cystic Fibrosis Methods and Protocols* satisfies that need by providing detailed protocols for the laboratory techniques used throughout CF research From electrophysiology and cell biology to animal models and gene therapy the comprehensive set of methods covered here provide step by step instructions needed for investigators to incorporate new approaches into their research programs Contributions have been chosen to reflect the rich diversity of techniques and to provide a cohesive framework for understanding challenges that are currently at the forefront of CF research It is hoped that this volume will serve as a valuable reference that will not only foster interdisciplinary investigations into current problems encountered in CF but also facilitate the translation of new scientific discoveries into clinical solutions

Melanoma Techniques and Protocols Brian J. Nickoloff, 2008-02-02 This book is about melanoma its biology immunology and pathology as well as the initial use of powerful genomic tools to study its fundamental mole lar and genetic characteristics The study of cancer will be profoundly impacted by the Human Genome Project I would like to discuss some of these changes The first draft of the human genome sequence was announced in June 2000 and we have just scratched the surface of the changes it will engender in medicine A relevant question is what are the long term effects of the Human Genome Project for medicine I would argue that there are three and each of these three point toward the view that systems biology will dominate biology and medicine of the 21st century First the Human Genome Project introduced a new type of s ence discovery science Discovery science takes a biological system e g the genome and defines all of its elements e g the sequences of the 24 human ch mosomes Thus it creates a rich infrastructure from which the classical hypo esis driven science can be done more effectively The effective integration of discovery and hypothesis driven science is a key for systems approaches to bi ogy and medicine Second the Human Genome Project has provided a periodic table of life

Gene Therapy Protocols Jeffrey R. Morgan, 2007-10-26 Efforts in gene therapy have grown dramatically in recent years Basic research as well as clinical activity have made exciting progress and are beg ning to offer renewed hope that gene therapy may be able to deliver novel approaches for the treatment of inherited as well as such acquired diseases as cardiovascular disease and cancer With the sequencing of the human genome complete we now have a comprehensive catalog of genes that further expands the potential role of gene

therapy into such new fields as tissue engineering Central to gene therapy is the process of gene transfer thus advances in the technology of gene transfer are at the heart of this field's progress Numerous technologies based on a variety of methods e.g viral mediated physical chemical have been developed to achieve gene transfer Some of the earliest methods such as recombinant retroviruses are still widely used have undergone significant improvements and have given rise to new vectors based on lentiviruses

Molecular Pathology Protocols Anthony A. Killeen, 2008-02-02 The era of molecular pathology has arrived From its promising beginnings in research laboratories the field has grown and continues to grow to become a vital part of the care of an ever increasing number of patients Because of its recent emergence from the research laboratory many molecular pathology protocols we still to be found in the primary literature and have not appeared in a text MO PCU Q Pathology Protocols contains laboratory protocols that have been developed by many of the authors for use in clinical molecular pathology laboratories and describe in detail how to perform these assays This book is therefore intended for clinical laboratory use by medical technologists and pathologists It will also be of interest to research workers who are performing these assays In its broadest meaning pathology is the study of disease and therefore it follows that any disease for which the molecular basis is understood would be suitable as a topic for inclusion in this work When selecting protocols it was necessary to place limits on the number of chapters that could be feasibly presented in a single work Those protocols that were selected are performed more frequently or have achieved recognition as having important diagnostic utility in contemporary practice A decision was made to exclude inherited genetic diseases with certain exceptions such as those diseases that are associated with thrombotic states and are part of the traditional domain of pathology

Mycobacterium Tuberculosis Protocols Tanya Parish, Neil G. Stoker, 2008-02-01 The aim of this book is to provide detailed protocols for studying the molecular biology of the pathogen Mycobacterium tuberculosis and its interactions with host cells As established mycobacterial laboratories move towards exploiting the genome and laboratories with expertise in other fields apply them to mycobacteria both traditional and novel methodologies need to be reviewed Thus the chapters in Mycobacterium tuberculosis Protocols range from perspectives on storage of strains and safety issues to the application of the latest functional genomics technologies The last few years have been remarkable ones for research into M tuberculosis The most important landmark by far has been the completion of the genome sequence of the widely studied H37Rv strain 1 We can now predict every protein and RNA molecule made by the pathogen This information is or will soon be enriched by the addition of genome sequences of other strains from the M tuberculosis complex a second strain of M tuberculosis Mycobacterium bovis and the vaccine strain M bovis BCG Valuable comparative data will also be provided by the genome sequences of Mycobacterium leprae Mycobacterium avium and Streptomyces coelicolor Another recent milestone for M tuberculosis has been the development of efficient mutagenesis methodologies the lack of which has been a major handicap in functional studies

Hematopoietic Stem Cell Protocols Christopher A. Klug, Craig T. Jordan, 2008-02-01 The ability to

highly purify and characterize hematopoietic stem cells HSC from mice and humans has opened up an exceedingly rich field of basic science research with enormous clinical potential Many of the techniques used in studies of HSC biology have become more standardized over the last several years which makes it possible to compile a set of methods that can be used by both seasoned investigators and novices in the stem cell field We have attempted to be as comprehensive as possible and yet focus on what we perceive to be the most widely used approaches for studies of murine and human HSC This first edition of Hematopoietic Stem Cell Protocols will therefore have some obvious omissions that were dictated by contemporary circumstances It is our hope that readers will feel free to contribute their personal suggestions for further chapters as well as on how existing chapters can be improved for future editions We certainly expect that old approaches will be refined new assays will be developed and other animal model and vector systems will be described that will become the new gold standards for future work Our sincere thanks goes out to all of the contributors and to those in the stem cell field that have enlarged our thinking and provided new tools to further understand this fascinating cell type

Angiogenesis Protocols J. Clifford Murray, 2008-02-02 In the last few years we have been deluged with information on angiogenesis Scientists and the public at large are exposed daily to this new science not just in specialist journals and texts but in the tabloid press where popular articles refer to angiogenic therapies as magic bullets and miracle cures for cancer arthritis retinopathies heart disease and circulatory problems Is there no ill this approach will not cure The fact that so much time effort and resource have been and continue to be dedicated to this new science is clear testament to its importance Yet many fundamental aspects of angiogenesis remain poorly understood in particular cues that activate the process This fact has to some extent been masked behind a surfeit of fine detail we can't see the wood for the trees Most studies of angiogenesis identify single links in a long chain of events Furthermore each study is itself hampered by the limitations of the biological end point chosen For instance though endothelial proliferation may well be necessary for angiogenesis it is not sufficient Therefore measuring endothelial proliferation in response to a novel growth factor and on the basis of this observation stating that the factor is angiogenic is unsound logic It is important that researchers in this field and perhaps more importantly those experimenting at its periphery recognize the limitations of their chosen biological end points

Angiotensin Protocols Donna H. Wang, 2008-02-01 A qualitative leap in the understanding of cardiovascular and renal regulation by the renin angiotensin system and of the role of this system in tissue damage has occurred as a result of the many recent advances in molecular genetic techniques The cloning of the genes for the components of the renin angiotensin system the design of specific angiotensin receptor ligands and the use of embryonic gene targeting techniques for the creation of mutant strains have established that the renin angiotensin system is important in blood pressure regulation ion and fluid homeostasis and tissue growth and remodeling Further investigation of the mechanisms by which this system participates in cardiovascular regulation may shed some light on the pathogenesis of several cardiovascular diseases e.g hypertension congestive heart failure and

chronic renal failure Despite the promise of this system as a target for therapeutic interventions for these diseases there are great challenges in the integration of the attempts to close the gap between the traditional literature of medicine and the explosion of information from the new technologies This book's title Angiotensin Protocols reflects the authors strong efforts to translate expert knowledge into easy to follow practice The book opens with introductory chapters and each specialty section provides detailed methods covering a wide variety of techniques ranging from genetic manipulation of targeted genes to functional studies of the renin angiotensin system

Colorectal Cancer Steven M. Powell, 2008-02-02 The contents of Colorectal Cancer Methods and Protocols aim to instruct investigators in all the key genetic cellular and molecular biological methods of analyzing colorectal tumors The focused techniques and assays are described in sufficient detail to allow researchers to start an experiment on colon tumors and proceed from beginning to end as if the expert in the field who has performed these studies were guiding them at the bench Of note most of the chapters in this volume are written by those scientists who pioneered these methods and assays in their respective fields The chapters in Colorectal Cancer Methods and Protocols describe state of the art methods to analyze colorectal tumors ranging from gross mic dissection of specimens to specific molecular analyses Included are coverages of mutational assays instability testing immunohistochemical assays chromosomal studies and gene expression analyses The goal of our volume is to facilitate the performance of colorectal tumor biological experiments by investigators at various levels of training from graduate students and postdoctoral fellows to principal investigators who desire to advance our understanding of colon cancer development

Metastasis Research Protocols Susan A. Brooks, Udo Schumacher, 2008-02-02 The process of metastasis formation is hugely complex as described in the introductory chapter of this book and this complexity has led us to compile two volumes of methods from a vastly divergent background that attempts to encompass the whole spectrum of cancer biology This first volume Metastasis Research Protocols Analysis of Cells and Tissues concentrates on analysis and mapping of molecules produced by cells and tissues and analysis of the molecular biology underlying their expression whereas the second volume Metastasis Research Protocols Cell Behavior In Vitro and In Vivo focuses sharply on the determination of cell behavior in vitro and in vivo We have deliberately included chapters describing well established and familiar techniques for example SDS PAGE and Western blotting Chapter 11 and immunocytochemistry Chapter 2 in addition to the newer and more specialized approaches and specific examples of their application because although the methodology is readily available in the published literature and established in many laboratories we wished these volumes to stand alone and to make accessible here the standard techniques that underpin much metastasis research for both the newcomer to the field and the seasoned researcher Undoubtedly owing to the complexity of the metastatic cascade and the wealth of research techniques involved in scientific approaches to its unraveling and despite our best efforts to make these volumes as comprehensive as seems feasible this is a tall order and there will inevitably be omissions For these we apologize

Molecular Analysis of Cancer Jacqueline

Boulton, Carrie Fidler, 2008-02-02 Over the past 20 years technological advances in molecular biology have proven invaluable to the understanding of the pathogenesis of human cancer. The application of molecular technology to the study of cancer has not only led to advances in tumor diagnosis but has also provided markers for the assessment of prognosis and disease progression. The aim of Molecular Analysis of Cancer is to provide a comprehensive collection of the most up to date techniques for the detection of molecular changes in human cancer. Leading researchers in the field have contributed chapters detailing practical procedures for a wide range of state of the art techniques. Molecular Analysis of Cancer includes chapters describing techniques for the identification of chromosomal abnormalities and comprising fluorescent in situ hybridization, FISH, spectral karyotyping, SKY, comparative genomic hybridization, CGH and microsatellite analysis. FISH has a prominent role in the molecular analysis of cancer and can be used for the detection of numerical and structural chromosomal abnormalities. The recently described SKY in which all human metaphase chromosomes are visualized in specific colors allows for the definition of all chromosomal rearrangements and marker chromosomes in a tumor cell. Protocols for the detection of chromosomal rearrangements by PCR and RT-PCR are described as well as the technique of DNA fingerprinting, a powerful tool for studying somatic genetic alterations in tumorigenesis. **Molecular Pathology of the Prions** Harry F.

Baker, 2008-02-02 Internationally recognized investigators review the latest developments in and novel approaches to understanding the prion protein and prion diseases at the molecular level. Utilizing a variety of cutting edge techniques these distinguished scientists seek to define the normal function of a prion protein to detect and measure the early immune response to prion disease and to discover possible therapeutic targets. They also use transgenic mice and new electrophysiological investigations to elucidate the pathogenetic mechanisms involved in prion diseases. State of the art and richly insightful Molecular Pathology of the Prions captures for basic and clinical neuropathologists the latest developments and approaches to understanding the pathogenesis of prion diseases and by analogy suggests possible research techniques for the more common proteinopathies such as Alzheimer's and Parkinson's diseases. **Vision Research Protocols** P.

Elizabeth Rakoczy, 2008-02-02 Elizabeth Rakoczy and a team of leading clinical and experimental scientists describe in step by step detail the key techniques essential to effective molecular biological research in ophthalmology and optometry. These readily reproducible methods are adapted to the special requirements of vision research with coverage that ranges from the most basic to the most sophisticated technologies. Included are methods for the down regulation of gene expression, new gene therapy techniques and for the development of transgenic and knockout animal models for testing novel therapies. Eminently accessible and clinically relevant Vision Research Protocols provides experimental and biomedical investigators in ophthalmology and optometry with a rich panoply of most powerful tools with which to ask and answer all the important questions emerging from the dramatically advancing work in vision research today. **Interleukin Protocols** Luke A. J.

O'Neill, Andrew Bowie, 2008-02-02 Interleukins are a family of proteins that regulate the maturation, differentiation or

activation of cells involved in immunity and inflammation and belong to a broader family termed cytokines. Collectively these proteins are the key orchestrators of host defense and the response to tissue injury. There are currently 23 different interleukins numbered from IL 1 to IL 23 although the full extent of the interleukin family will only become clear upon analysis of the human genome sequence. Most important interleukins are central to the pathogenesis of a wide range of diseases that involve an immune component including such conditions as rheumatoid arthritis, multiple sclerosis, ulcerative colitis, psoriasis, and asthma. Interleukins have also been implicated in other conditions including cancer, migraine, myocardial infarction, and depression. In essence, when cells are activated by interleukins, a program of gene expression is initiated in the target cell that alters the cell's phenotype leading to enhanced immune reactivity, inflammation, and/or proliferation. Interleukins are therefore at the core of the cellular basis for many diseases. They are the subject of intense investigation by biomedical researchers, and the targeting or use of interleukins in the clinic is proceeding apace. Approaches such as targeting IL 4 in asthma or IL 1 in joint disease are being pursued, and it is likely that in the next 5-10 years a number of new therapies based on either inhibiting or administering interleukins will be available.

Human Airway Inflammation Duncan F. Rogers, Louise E. Donnelly, 2008-02-02 Rubor (redness), tumor (swelling), calor (heat), and dolor (pain) are the classical signs of inflammation. These features are obvious in the skin where injury or disease causes flare, wheal, and painful burning sensations. Vasodilation underlies the flare, and heat; plasma exudation causes the swelling, and activation of sensory nerves relays pain. In chronic conditions, skin biopsies show inflammatory cell infiltration. Inflammation is not unique to the skin and contributes to disease and repair processes in other organ systems in the body. From the viewpoint of this volume, lung inflammation is now recognized as central to the pathophysiology of a number of severe respiratory conditions, the two most common being asthma and chronic obstructive pulmonary disease (COPD). In asthma and to a lesser extent COPD, there is evidence of vasodilation with congestion of blood vessels accompanied by reddening of the airway mucosa and of plasma exudation leading to swelling of the airway wall. Similarly, although less pronounced than in the skin, there is evidence of pain, for example the pleasurable chest sensations associated with asthma attacks. Understanding the pathogenesis of airway inflammation will enable rational design of drugs to effectively treat conditions such as asthma and COPD. However, whereas immediate access to the skin facilitates investigation of disease processes, the lung, although open to atmosphere, is much less accessible. Consequently, the investigation of lung inflammation is usually indirect. Thus, a wide variety of research techniques are used.

Parkinson's Disease M. Maral Mouradian, 2008-02-02 Parkinson's disease is a progressive neurodegenerative disorder characterized clinically by tremor, rigidity, slow movements, and postural instability. Pathologically, dopaminergic neurons of the substantia nigra bear the brunt of the degeneration, though other neuronal groups can be affected as well. Although Parkinson's disease is the only neurodegenerative disorder for which effective therapies are available, these treatment options are only symptomatic; they do not influence the underlying degenerative process and are associated with a high incidence of complications.

particularly with their long term use The progressive nature of the disease and the limitations of its palliative therapies result in significant functional impairment The chronic disability and the increased prevalence of the disease with the prolongation of life expectancy in developed countries make the social and economic impact of this disease quite high For nately systematic basic and clinical research in this disease has yielded major new advances that render patients hopes for a cure considerably closer to reality The application of molecular biologic methodologies in the study of Parkinson s disease has begun to have a major impact only in recent years Con quently the utility of these technologies is largely in the research arena although their clinical applications are now being realized

Nonviral Vectors for Gene Therapy Mark A. Findeis, 2008-02-02 The purpose of this volume of Methods in Molecular Medicine is to set forth examples of the great variety of techniques and applications that are now emerging in the field of nonviral gene therapy The book emphasizes not only specific approaches to gene delivery but in particular the best current me ods to prepare handle and characterize gene delivery agents These topics are of very broad importance since gene therapy evolves from its mostly ac emy based experimental and clinical research to the ever increasing number of industry driven programs directed toward commercial development S cessful introduction of nonviral gene therapy agents into the clinic should be expected to require rigorous manufacturing and analytical methods that readily meet the regulatory guidelines under which new drug candidates are reviewed for marketing approval Exactly what those guidelines will prove to be c tainly depends on the established guidelines for review of both biological and chemical therapeutics Additionally many new techniques are being devised and applied to gene therapy research these techniques will be instrumental in developing and characterizing successful gene delivery agents

Nonviral Vectors for Gene Therapy Methods and Protocols has two main sections To start with there is a series of chapters on specific protocols for the synthesis characterization and application of gene delivery agents S eral chapters address the topic of materials to bind with DNA to form the compact condensed phases that facilitate cellular delivery

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