

METHODS IN MOLECULAR BIOLOGY™

Volume 262

# Genetic Recombination

*Reviews and Protocols*

*Edited by*

**Alan S. Waldman**



HUMANA PRESS

# Genetic Recombination Reviews And Protocols Methods In Molecular Biology

**Philip B Oliva**



## **Genetic Recombination Reviews And Protocols Methods In Molecular Biology:**

*Genetic Recombination* Alan S. Waldman, 2008-02-03 Genetic recombination in the broadest sense can be defined as any process in which DNA sequences interact and undergo a transfer of information producing new recombinant sequences that contain information from each of the original molecules All organisms have the ability to carry out recombination and this striking universality speaks to the essential role recombination plays in a variety of biological processes fundamentally important to the maintenance of life Such processes include DNA repair regulation of gene expression disease etiology meiotic chromosome segregation and evolution One important aspect of recombination is that it typically occurs only between sequences that display a high degree of sequence identity The stringent requirement for homology helps to ensure that under normal circumstances a cell is protected from deleterious rearrangements since a swap of genetic information between two nearly identical sequences is not expected to dramatically alter a genome Recombination between dissimilar sequences which does happen on occasion may have such harmful consequences as chromosomal translocations deletions or inversions For many organisms it is also important that recombination rates are not too high lest the genome become destabilized Curiously certain organisms such as the trypanosome parasite actually use a high rate of recombination at a particular locus in order to switch antigen expression continually and evade the host immune system effectively

Homologous Recombination Andrés Aguilera, Aura Carreira, 2021-09-09 This volume explores homologous recombination's HR essential role in meiotic and somatic cells It discusses the analysis of different steps of the HR process from the genetic molecular biology and cell biology perspectives Using a variety of model systems chapters in this book cover topics such as the genome wide mapping of DNA double strand breaks DSB analysis of DNA end resection and recombination intermediates by gel electrophoresis and southern blotting cell based monitoring of HR activity in meiotic and mitotic cells in vitro analysis of branch migration DNA strand exchange and Holliday junction resolution or super resolution imaging of HR repair at collapsed replication forks 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 *Homologous Recombination Methods and Protocols* is a valuable resource that uses both classical and more recent approaches to answer questions on the HR mechanism It is a useful tool for scientists working on the field of genome integrity as well as those working in cancer biology and DNA repair

**Gene Expression Profiling** Richard A. Shimkets, 2008-02-03 Leading scientists in gene expression methodology and bioinformatics data analysis describe readily reproducible methods for measuring RNA levels in cells and tissues The techniques presented include new methods for applying the Affymetrix GeneChip SAR SAGE StaRT PCR SSH the Invader Assay and ADGEM The authors also provide critical bioinformatics insight and resources for data analysis and management By distilling the basic underlying principles of many methods to a few

straightforward concepts investigators can easily choose the method most appropriate to their application

*Protein-Protein Interactions* Haian Fu, 2008-02-03 As the mysteries stored in our DNA have been more completely revealed scientists have begun to face the extraordinary challenge of unraveling the intricate network of protein-protein interactions established by that DNA framework It is increasingly clear that proteins continuously interact with one another in a highly regulated fashion to determine cell fate such as proliferation differentiation or death These protein-protein interactions enable and exert stringent control over DNA replication RNA transcription protein translation macromolecular assembly and degradation and signal transduction essentially all cellular functions involve protein-protein interactions Thus protein-protein interactions are fundamental for normal physiology in all organisms Alteration of critical protein-protein interactions is thought to be involved in the development of many diseases such as neurodegenerative disorders cancers and infectious diseases Therefore examination of when and how protein-protein interactions occur and how they are controlled is essential for understanding diverse biological processes as well as for elucidating the molecular basis of diseases and identifying potential targets for therapeutic interventions Over the years many innovative biochemical biophysical genetic and computational approaches have been developed to detect and analyze protein-protein interactions This multitude of techniques is mandated by the diversity of physical and chemical properties of proteins and the sensitivity of protein-protein interactions to cellular conditions

*Bacterial Artificial Chromosomes* Shaying Zhao, Marvin Stodolsky, 2008-02-03 For both volumes Expert investigators describe not only the classic methods but also the many novel techniques they have perfected for the transfer of large DNAs into the cells of both microbes and animals via large insert recombinant DNAs Volume 1 presents readily reproducible techniques for library construction physical mapping and sequencing An accompanying volume Volume 2 Functional Studies provides a wide variety of methods and applications for functional analysis of the DNA transformed organisms Besides protocols each chapter includes scientific reviews software tools database resources genome sequencing strategies and illustrative case studies

*Mobile Genetic Elements* Wolfgang J. Miller, Pierre Capi, 2008-02-05 Leading experts describe in step by step detail their most productive transposon based methods and strategies for studying genome structure function and evolution These readily reproducible techniques cover a wide range including mutagenesis transgenesis gene silencing and molecular systematics Among the highlights are a series of DNA hybridization methods for analyzing the distribution and dynamics of mobile DNA at the host's genomic level techniques for studying LTR retrotransposons in heterologous host systems and mutagenesis protocols for investigating gene functions in a broad range of organisms These cutting edge methods offer investigators powerful genetic tools for dissecting the function of a specific gene elaborating on the mechanisms leading to genetic change and diversity and studying the evolutionary impact of mobile DNA on the biology and evolution of organisms

**Platelets and Megakaryocytes** Jonathan M. Gibbins, Martyn P. Mahaut-Smith, 2008-02-04 12 The average human body has in the order of 10 circulating platelets They are crucial for

hemostasis and yet excessive platelet activation is a major cause of morbidity and mortality in western societies. It is therefore not surprising that platelets have become one of the most extensively investigated biological cell types. We are however far from understanding precisely how platelets become activated under physiological and pathophysiological conditions. In addition, there are large gaps in our knowledge of platelet production from their giant precursor cell, the megakaryocyte. Understanding megakaryocyte biology will be crucial for the development of platelet gene targeting. The aim of *Platelets and Megakaryocytes* is therefore to bring together established and recently developed techniques to provide a comprehensive guide to the study of both the platelet and the megakaryocyte. It consists of five sections split between two volumes. The more functional assays appear in Volume 1, whereas Volume 2 includes signaling techniques, postgenomic methods and a number of key perspectives chapters. Part I of Volume 1, *Platelets and Megakaryocytes: Functional Assays*, describes many well established approaches to the study of platelet function, including aggregometry, secretion, arachidonic acid metabolism, procoagulant responses, platelet adhesion under static or flow conditions, flow cytometry and production of microparticles. Although one would ideally wish to perform experiments with human platelets, studies within the circulation using intravital microscopy require the use of animal models, which are described in Chapter 16, vol 1.

**Antioxidants And Stem Cells For Coronary Heart Disease** Philip B Oliva, 2014-02-04. This book covers two known controversial topics: antioxidants and stem cells as therapies to treat coronary heart disease. Aiming to provide college-educated but not scientifically trained readership with a wealth of information about these two cutting-edge technologies, *Antioxidants and Stem Cells for Coronary Heart Disease* is written with minimum scientific terminology. Basic science studies and clinical trials regarding stem cells and antioxidants are discussed and peppered with anecdotes to make them understandable and entertaining to the laymen.

**Chemoinformatics** Jürgen Bajorath, 2008-02-04. In the literature, several terms are used synonymously to name the topic of this book: chem, chemi, or chemo informatics. A widely recognized definition of this discipline is the one by Frank Brown from 1998<sup>1</sup>, who defined chemoinformatics as the combination of all the information resources that a scientist needs to optimize the properties of a ligand to become a drug. In Brown's definition, two aspects play a fundamentally important role: design support by computational means and drug discovery, which distinguishes it from the term chemical informatics that was introduced at least ten years earlier and described as the application of information technology to chemistry, not with a specific focus on drug discovery. In addition, there is of course chemometrics, which is generally understood as the application of statistical methods to chemical data and the derivation of relevant statistical models and descriptors.<sup>2</sup> The pharmaceutical focus of many developments and efforts in this area and the current popularity of gene-to-drug or similar paradigms is further reflected by the recent introduction of such terms as discovery informatics<sup>3</sup>, which takes into account that gaining knowledge from chemical data alone is not sufficient to be ultimately successful in drug discovery. Such insights are well in accord with other views that the boundaries between bio and chemoinformatics are fluid and that these disciplines should be closely

combined or merged to significantly impact biotechnology or pharmaceutical research 4      *Gene Delivery to Mammalian Cells* William C. Heiser, 2008-02-03 Experienced researchers describe in step by step detail methods that have proven most useful in delivering genes to mammalian cells Volume 1 focuses on gene delivery by a variety of chemical and physical methods including ultrasound biolistics peptides PNA clamps liposomes microinjection electroporation particle bombardment dendrimers and hydrodynamics Volume 2 details procedures for delivering genes to cells in vitro and in vivo including the use of lentiviral vectors      *Recombinant Gene Expression* Paulina Balbas, Argelia Lorence, 2008-02-04 Since newly created beings are often perceived as either wholly good or bad the genetic alteration of living cells impacts directly on a symbolic meaning deeply imbedded in every culture During the earlier years of gene expression research technological applications were confined mainly to academic and industrial laboratories and were perceived as highly beneficial since molecules that were previously unable to be separated or synthesized became accessible as therapeutic agents Such were the success stories of hormones antibodies and vaccines produced in the bacterium *Escherichia coli* Originally this bacterium gained fame among humans for being an unwanted host in the intestine or worse yet for being occasionally dangerous and pathogenic However it was easily identified in contaminated waters during the 19th century thus becoming a clear indicator of water pollution by human feces Tamed cultivated and easily maintained in laboratories its fast growth rate and metabolic capacity to adjust to changing environments fascinated the minds of scientists who studied and modeled such complex phenomena as growth evolution genetic exchange infection survival adaptation and further on gene expression Although at the lower end of the complexity scale this microbe became a very successful model system and a key player in the fantastic revolution kindled by the birth of recombinant DNA technology      **Genetic Recombination** Alan S. Waldman, 2004-01-09 Genetic recombination in the broadest sense can be defined as any process in which DNA sequences interact and undergo a transfer of information producing new recombinant sequences that contain information from each of the original molecules All organisms have the ability to carry out recombination and this striking universality speaks to the essential role recombination plays in a variety of biological processes fundamentally important to the maintenance of life Such processes include DNA repair regulation of gene expression disease etiology meiotic chromosome segregation and evolution One important aspect of recombination is that it typically occurs only between sequences that display a high degree of sequence identity The stringent requirement for homology helps to ensure that under normal circumstances a cell is protected from deleterious rearrangements since a swap of genetic information between two nearly identical sequences is not expected to dramatically alter a genome Recombination between dissimilar sequences which does happen on occasion may have such harmful consequences as chromosomal translocations deletions or inversions For many organisms it is also important that recombination rates are not too high lest the genome become destabilized Curiously certain organisms such as the trypanosome parasite actually use a high rate of recombination at a particular locus in order to switch antigen expression

continually and evade the host immune system effectively      Tsetse and Trypanosomiasis Information ,2005      **Principles of Microbiology** Ronald M. Atlas,1995 Scientific study of microorganisms Microbial physiology cellular biology Microbial genetics molecular biology Microbial replication and growth Microorganisms and human diseases Applied and environmental microbiology Survey of microorganisms      *American Book Publishing Record* ,2004      **Laboratory Course Manual for Methods in Yeast Genetics** Fred Sherman,Gerald R. Fink,James B. Hicks,1986      **Anticancer Research** ,2004

**Methods in Yeast Genetics** Chris Kaiser,Susan Michaelis,Aaron Mitchell,1994      Insect Cell Cultures J. M. Vlak,1996-08-31 Insect Cell Cultures Fundamental and Applied Aspects is a comprehensive reference work covering the key issues involved in nearly 30 review papers cell lines development characterisation physiology cultivation and medium design viruses virus cell interactions replication recombinant construction infection kinetics post translational modification and passage effects engineering shear bioreactors including perfusion immobilisation scale up and modelling downstream processing applications economics and regulatory aspects For cell biologists biochemists molecular biologists virologists immunologists and other basic and applied disciplines related to cell culture engineering both academic and industrial

Microbiology ,1997

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