

Techniques in Somatic Cell Genetics

Edited by
JERRY W. STRAU

 Springer

Techniques In Somatic Cell Genetics

Alan Garth Tunnacliffe



Techniques In Somatic Cell Genetics:

Techniques in Somatic Cell Genetics Jerry W. Shay, 2013-11-21 Somatic cell genetics is an exciting and rapidly expanding field of research. Since descriptions of the major experimental techniques in the field are scattered throughout various journals and other publications, there is a real need for a single reference source for both established investigators and students in the field. In addition, technical reports are frequently abridged such that many researchers are discouraged from attempting to adopt the appropriate methodology. This book therefore describes in detail the many recent technical advances in such areas of somatic cell genetics as transfer mediated by liposomes, erythrocyte ghosts, chromosomes, microcells, mitochondria, and isolated nuclear DNA. These techniques have increased our understanding of the organization and regulation of eukaryotic cells. The production of antibiotic resistant cell lines and their use in studying cytoplasmic inheritance are also included. Evidence for the cytoplasmic regulation of nuclear gene expression in eukaryotic cells is rapidly accumulating following the characterization of cytoplasmic mutations. The production of nuclear coded mutations, their use in standard cell hybridization, and recent advances in techniques for fusing whole cells or cell components are also described.

New Techniques in Somatic Cell Genetics Alan Garth Tunnacliffe, 1984 [Development and Application of a General Method for Somatic Cell Genetics](#) Tim Wang (Ph. D.), 2017 Genetic analysis or genetic screening is an efficient method for identifying the set of genes involved in a biological process. In microorganisms, powerful techniques enable systematic loss of function screens which have yielded critical insights into the molecular basis of many fundamental cellular pathways. In human cells, however, prevailing screening methods fall short, leaving our understanding of human genes incomplete. Here I describe the development of a general method for genetic screening in mammalian cells using the clustered regularly interspaced short palindromic repeats (CRISPR) Cas9 system. In this approach, libraries of knockout mutants can be generated in any cultured cell line using large scale lentiviral single guide RNA (sgRNA) pools and screened under both positive and negative selection. After the initial proof of principle experiments, I constructed a genome wide sgRNA library and screened for genes required for the proliferation and survival of the nearhaploid chronic myeloid leukemia cell line KBM7. The unusual karyotype of these cells also allowed an independent screening approach involving gene trap insertional mutagenesis to find cell essential genes. Together, these screens converged on a highly overlapping gene set that was enriched for genes that encode components of fundamental pathways, are expressed at high levels, and contain few inactivating polymorphisms in the human population. To broadly survey patterns of human gene essentiality, I conducted CRISPR based screens across many more cell lines and cancer types. Overall, these studies revealed a large set of common essential genes involved in housekeeping processes, but interestingly also pinpointed differences specific to each cell line that reflected its developmental origin, oncogenic drivers, paralogous gene expression pattern, and chromosomal structure. By mapping sets of genes displaying variable but correlated essentiality across lines, I uncovered functionally interacting gene networks. Using

this dataset I also identified genetic vulnerabilities associated with oncogenic Ras which may be exploited for anti cancer therapy Last in collaboration with Bruce Walker and Nir Hacohen s labs I have conducted a screen for host factors i e human genes that are required to support HIV infection in a physiologically relevant cell line model Collectively these results establish CRISPR based screens as a powerful tool for systematic genetic analysis in mammalian cells Methods in Membrane Biology Edward D. Korn,2012-12-06 Three articles make up Volume 10 of Methods in Membrane Biology In the first of these Papahadjopoulos Poste and Vail extensively review much of the available data on the fusion of natural membranes model membranes liposomes and natural membranes with liposomes The authors are led by their review of the experimental methods and their interpretations of the results obtained to a general theory of membrane fusion which they believe is applicable to all systems that have been studied Arguing that although protein and carbohydrate may serve in some cases to bring membranes into sufficiently close proximity for fusion to occur and in other cases to remove peripheral and integral proteins from the regions that are to undergo fusion the authors conclude that membrane fusion per se is solely a property of the lipid bilayer In their view all the experimental observations to date can be subsumed under a unifying hypothesis in which membrane fusion is the result of a phase separation in one half of the membrane bilayer brought about by the interaction of calcium ions with acidic phospholipids mostly phosphatidylserine Where half membranes already contain sufficient acidic phospholipids a local increase in calcium ion concentration may suffice to induce fusion examples might include exocytosis and fusion of intracellular membrane systems In other cases natural or experimentally induced events preceding fusion might be necessary to increase the local concentration of the acidic phospholipids in the half membrane virus or fusogenic agent induced cell to cell fusion or endocytosis for example Vogel and Motulsky's Human Genetics Friedrich Vogel,Arno G. Motulsky,2013-04-17 The first two editions of this book published in 1979 and in 1986 were well received by the scientific community Translations into Italian Japanese and Russian suggest that this book was regarded useful in many parts of the world Mean while human genetics has seen dramatic developments and the molecular revolution has attracted thousands of scientists including many molecular biologists to this field About 3700 human genes have already been mapped to chromosomal sites Many such genes have been cloned and the various mutations causing disease have been identified Novel mutational mechanisms such as expanded trinucleotide repeats have been discovered in conditions such as Huntington s disease and the fragile X syndrome of mental retardation Gene action now can often be elucidated by studying the pathway from gene to phenotype following positional cloning rather than working in the opposite direction as was customarily done before the tools of new genetics were available In an increasing number of genetic diseases the pathogenic mechanisms have been elucidated with positive consequences for prevention and treatment It therefore became necessary to rewrite almost completely major portions of this book These developments are now making genetics arguably the leading basic science for medicine as well as a recognized medical speciality But all these changes do

not mean that the entire framework of human genetics had to be reconstructed

The Potato Genome Swarup Kumar Chakrabarti, Conghua Xie, Jagesh Kumar Tiwari, 2017-12-26 This book describes the historical importance of potato *Solanum tuberosum* L potato genetic resources and stocks including *S. tuberosum* group Phureja DM1 3 516 R44 a unique doubled monophloid homozygous line used for potato genome sequencing It also discusses strategies and tools for high throughput sequencing sequence assembly annotation analysis repetitive sequences and genotyping by sequencing approaches Potato *Solanum tuberosum* L 2n 4x 48 is the fourth most important food crop of the world after rice wheat and maize and holds great potential to ensure both food and nutritional security It is an autotetraploid crop with complex genetics acute inbreeding depression and a highly heterozygous nature Further the book examines the recent discovery of whole genome sequencing of a few wild potato species genomes genomics in management and genetic enhancement of *Solanum* species new strategies towards durable potato late blight resistance structural analysis of resistance genes genomics resources for abiotic stress management as well as somatic cell genetics and modern approaches in true potato seed technology The complete genome sequence provides a better understanding of potato biology underpinning evolutionary process genetics breeding and molecular efforts to improve various important traits involved in potato growth and development

Cytogenetics and Cell Genetics, 1994

The Cells of the Body Henry Harris, 1995 This book is the first scholarly history of research into the genetics of body cells from its origins in the 19th century to the present day Henry Harris a well known writer and a distinguished investigator in cell biology and cancer genetics brings an unusually informed perspective to the technical aspects of his subject He has written a book to be enjoyed not just by professional historians of science but by working scientists in genetics cell biology and cancer research from the graduate student level upwards Its readers will derive a richer understanding of how and why the cells of the body are studied in the way that they are today

Current Methods in Cellular Neurobiology, 1984

[A Guide to Methods in the Biomedical Sciences](#) Ronald B. Corley, 2004-12-17 Thousands of methods have been developed in the various biomedical disciplines and those covered in this book represent the basic essential and most widely used methods in several different disciplines

Hybridization of Somatic Cells Boris Ephrussi, 2015-03-08 Since its discovery in 1960 the hybridization of somatic cells has evolved from a biological curiosity into an analytical method that today underlies nearly all investigations of the genetic aspects of various biological phenomena As an eyewitness to this development from its inception forward Boris Ephrussi here relates the history of somatic hybridization and the formation of its methodology lie follows with a discussion of the characteristics and properties of the resultant hybrid cells Together these topics comprise an authoritative introduction to the principles of the technique Dr Ephrussi proceeds to an examination in greater detail of three specific areas of biological research to which the techniques of hybridization are currently being applied with promising consequences Thus the major part of the book deals with applications of somatic hybridization to mammalian genetics cell differentiation and cancer Originally published in 1972 The Princeton Legacy

Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

A Dictionary of Genetics , T and B Lymphocytes: Recognition and Function Fritz Bach, 2012-12-02. T and B Lymphocytes Recognition and Function is the 16th volume of the 1979 ICN-UCLA Symposia on Molecular and Cellular Biology. This book is organized into seven sections encompassing 74 chapters that summarize molecular level progress in the field of immunobiology. It emphasizes cell membrane techniques developed for its analysis and varied products of the major histocompatibility complex as well as other receptors on cells of the immune system. The book starts by describing two approaches for molecular association evaluation. First is the use of artificial membranes or lipid vesicles for the incorporation of antigens for recognition by T lymphocytes both at the afferent and efferent levels. Second is the chemical crosslinking of cell surface components with a variety of different crosslinking reagents. This is followed by a discussion on the molecular nature of a T cell receptor that provides insights of the target s recognized by T lymphocytes. Several chapters discuss data dealing with the issue of the apparent differential recognition by T and B cells while both use the same VH genes. Antidiotypic sera together with the activity of regulator T cells are also discussed with regard to their role in networks of regulation of the immune response. This book presents works demonstrating that human T lymphocytes can also be cloned and both noncytotoxic proliferating T lymphocytes and Tc can be so obtained. This is along with the continuing studies regarding heterogeneity of B lymphocytes as well as macrophages. Part V focuses on the interaction between lymphocyte and virus and molecular modifications of viral infected cells. The subsequent section deals with recognition reactivities and function of T and B lymphocytes. Considerable chapters in this section discuss T cell cytotoxicity dichotomy of MHC control over anti H Y cytotoxic T cell responses mouse alloantibodies and mixed lymphocyte reactions. The concluding part describes immunological tools such as synthetic membranes and cloned T cells with biological function.

An Introduction to Isozyme Techniques George J. Brewer, 1970. Starch gel electrophoresis. Electrophoretic media other than starch gel. Sample selection and preparation. Specific electrophoretic systems. Present applications and the future of isozymology. Analysis of electrophoretic variation.

A Dictionary of Genetics Robert C. King, William D. Stansfield, 1997. This edition has been organized to provide a quick understanding to students and non geneticists including over 6 500 definitions of terms and species names relevant to the study of genetics.

Mammalian Cell Genetics Martin L. Hooper, 1985. This book presents a comprehensive treatment of the genetic analysis of mammalian cells cultured as independent microorganisms. It bridges the gap between introductory texts and advanced works which describe selected aspects of the subject.

Methods in Molecular Genetics , 1993 **Principles of Modern Genetics** Gerald D. Elseth, Kandy D.

Baumgardner,1995 This text for a one semester general genetics course for science majors integrates the molecular and classical Mendelian approaches to genetics and takes an analytical approach emphasizing problem solving and the analysis of research data

Agindex ,1989

Introduction to Modern Genetics Robert P. Wagner,1980

Reviewing **Techniques In Somatic Cell Genetics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Techniques In Somatic Cell Genetics**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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