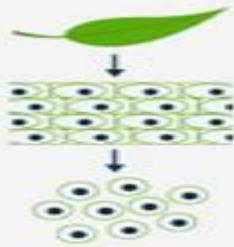
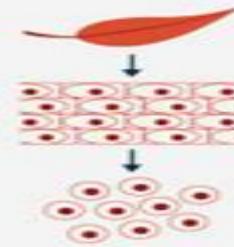


# Somatic Hybridization



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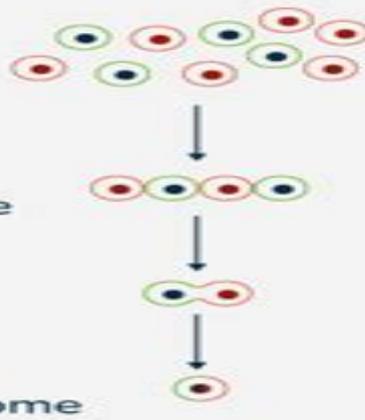


Isolated protoplasts

Symmetric Fusion

Chemical or  
electrical impulse

Hybrid cell with  
both parent genome

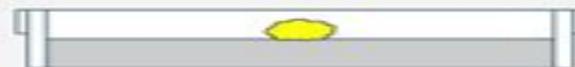
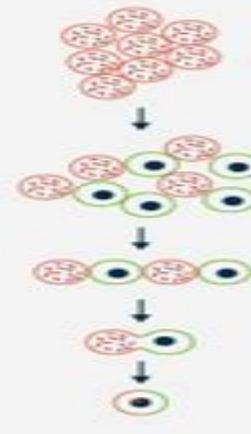


Asymmetric Fusion

Donor Genome  
Fragmentation

Chemical or  
electrical impulse

Acceptor cell with  
DNA fragment



Callogeneses



Organogenesis



Somatic Hybrid

Hybrid Characterization

# Somatic Cell Hybrids

**Shirong Wang**



## **Somatic Cell Hybrids:**

**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

**Somatic Cell Hybridization** Richard L. Davidson, Felix F. De la Cruz, 1974 [Somatic Cell Hybridization: Studies on Genetics and Development](#) Richard L. Davidson, 1973

**Somatic Cell Hybrids** Abbott, Catherine M. Abbott, Povey, 1995-03 Describing the background to a technique widely used in human genetics this study analyzes the uses of a particular type of cell culture These uses include the mapping of human genes a key aspect of the human genome project [Cell Hybrids](#) Nils R. Ringertz, Robert E. Savage, 2014-06-28 Cell Hybrids summarizes the methodology of cell fusion the fusion of human animal and plant cells of different origins to produce cell hybrids and surveys the main applications and current findings of the hybridization technique The book opens with a chapter on the history cell hybridization This is followed by separate chapters on spontaneous cell fusion virus induced cell fusion the cell fusion mechanism regulation of DNA synthesis and mitosis in heterokaryons and homokaryons and regulatory events which occur when two cells with different nuclear activity and or phenotype are fused with each other Subsequent chapters deal with methods used in preparing various cell fragments and some of their properties and uses in fusion experiments isolation of growing hybrid cells chromosome patterns and phenotypic expression in hybrid cells cell organelles in hybrid cells analysis of malignancy by cell hybridization The final chapters discuss the use of somatic cell hybridization to analyze the interaction between a number of viruses and their host cells and the use of plant cell hybrids

**Handbook of Stem Cells** Robert Paul Lanza, 2004 Accompanying CD ROM in v 2 has image collections which can be saved in PowerPoint or HTML **Selection and Characterization of Somatic Cell Hybrids** Randal Mark Hauptmann, 1984 **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. Cumulated Index Medicus, 1977 *Oncology Overview*, 1982 **Creating a New Set of Somatic Cell Hybrids to Isolate Human Chromosome 21 Expressed Sequences** Isik Yulug, 1996

**Identification and Characterization of Human Chromosome Contents in Somatic Cell Hybrids from a Patient with Menkes Syndrome by Using G-11 Stain Technique** Shirong Wang, 1991 *Cytogenetics and Cell Genetics*, 1994 Mammalian Cell Hybridization, 1973 *Catalog of cell lines. 1992/93 suppl*, 1982 International Review of the Science and Practice of Agriculture, 1925 **Monthly Bulletin of Agriculture Intelligence and of Plant-diseases**, 1925

*Mammalian Somatic Cell Hybridization* Patricia Anne Millman, 1969 Somatic cell hybridization studies have generally been concerned with the use of the somatic cell hybrid as a tool for genetic analysis. Few attempts have been made to determine whether this phenomenon of cell hybridization is simply an event induced by man-made techniques or whether it is in fact a basic underlying mechanism involved in the growth and evolution of some or all cell populations. The observation has been made that an increase in cell ploidy is often associated with the transformation of a primary cell culture to a permanent cell line and with the occurrence of neoplasia and subsequent growth and evolution of neoplastic cell populations. The possibility that a relationship exists between these increases in cell ploidy and somatic cell hybridization has been suggested. The present investigation was the first step in a larger project the purpose of which is to determine whether somatic cell hybridization can occur *in vivo* in a solid neoplasm composed of two different neoplastic cell populations and if so to determine whether this process of hybridization is involved in the subsequent evolution of such a mixed tumor. Before embarking on the *in vivo* studies it was considered necessary to provide evidence that somatic cell hybridization between the two chosen lines occurred *in vitro*. Obtaining this evidence was the purpose of the work reported here. In this experiment somatic cell hybridization has been shown to occur at a low frequency in a mixed *in vitro* culture of the Sarcoma 180 Foley murine cell line and the L 5178Y lymphoma murine cell line. Pilot studies have also been completed which indicate that both

cell lines can be grown as solid tumors in C3H mice Hence the proposed in vivo experiment in which the possible hybridization of these lines will be observed in a mixed solid tumor is in fact feasible Antibodies in Somatic Cell Hybrids  
M. R. Clark,1982 *A Genetic Analysis of Somatic Cell Hybrids that Lose Mouse Chromosomes* Christine Anastasia  
Kozak,1977

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