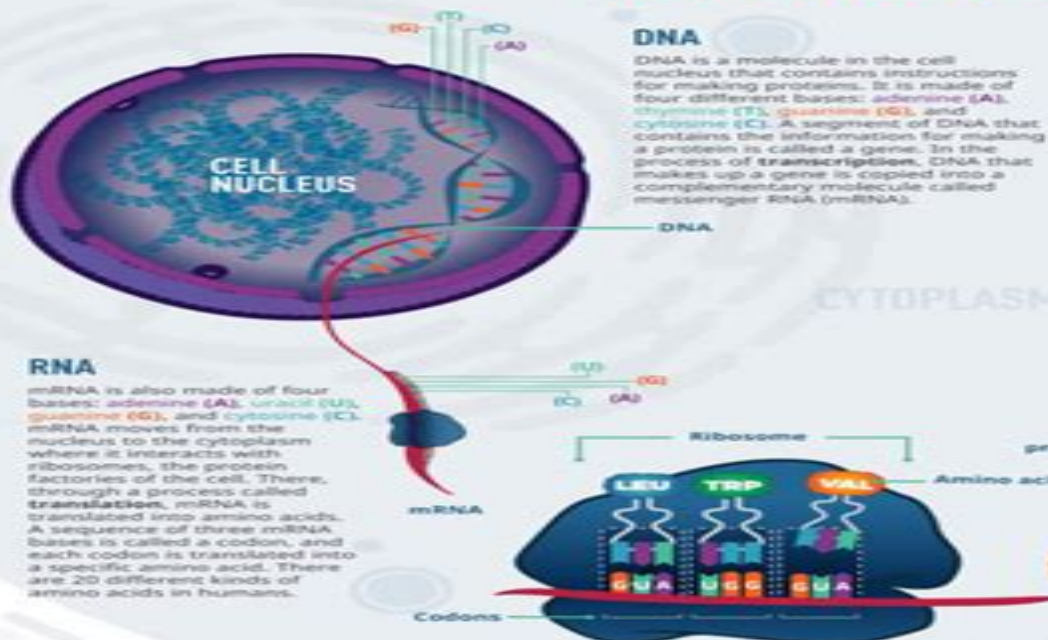


GENETIC — CHANGES — AND CANCER

HOW GENETIC INFORMATION CREATES PROTEINS



PROTEIN

As an mRNA molecule is translated, a chain of amino acids is formed. The chain eventually folds into a three-dimensional protein. The shape of a protein determines its function. Proteins have millions of functions in cells.

TYPES OF GENETIC MUTATIONS IN CANCER

DNA alterations can affect the structure, function, and amount of the corresponding proteins. All of these effects can change a cell's behavior from normal to cancerous. For example, a genetic alteration can intensify or eliminate the protein's function, which could make cells divide uncontrollably. Many different kinds of genetic mutations are found in cancer cells, including missense, nonsense, and frameshift mutations and chromosome rearrangements.

MISSENSE MUTATION

| | | | | |
|----------|-------------------------|----------------------------|------------------------|-----------------------|
| Original | CTA LEU (Leucine) | TGG TRP (Tryptophan) | GTA VAL (Valine) | DNA Amino Acids |
| Mutation | CTA LEU (Leucine) | TGC CYS (Cysteine) | GTA VAL (Valine) | DNA Amino Acids |

A missense mutation is a change of a single DNA base that results in a change in the amino acid sequence. Sometimes a single amino acid change can greatly alter the protein's function.

NONSENSE MUTATION

| | | | | |
|----------|-------------------------|----------------------------|------------------------|-----------------------|
| Original | CTA LEU (Leucine) | TGG TRP (Tryptophan) | GTA VAL (Valine) | DNA Amino Acids |
| Mutation | CTA LEU (Leucine) | TGA STOP | GTA VAL (Valine) | DNA Amino Acids |

A nonsense mutation is a change of a single DNA base that creates a "stop" codon, which terminates translation. The result is a shortened protein that may not function or that may have an abnormal function.

FRAMESHIFT MUTATION

| | | | | |
|----------|-------------------------|----------------------------|-------------------------|-----------------------|
| Original | CTA LEU (Leucine) | TGG TRP (Tryptophan) | GTA VAL (Valine) | DNA Amino Acids |
| Mutation | CTA LEU (Leucine) | ATG MET (Methionine) | GGT GLY (Glycine) | DNA Amino Acids |

A frameshift mutation results from the addition or removal of DNA bases that shifts the DNA sequence and the corresponding amino acid sequence. The result is a protein whose sequence, structure, and function are very different from those of the original protein.

CHROMOSOME REARRANGEMENTS

DNA is wound tightly into structures called chromosomes. Chromosome rearrangements can occur when a piece of a chromosome breaks and is lost entirely (deletion), moves to a different chromosomal location (translocation), flips directions (inversion), or is repeated (duplication). These rearrangements can alter several genes at once. For example, they can generate fusion genes, in which parts of two separate genes are joined together. Proteins made from fusion genes sometimes cause cancer.



Molecular Genetics Of Cancer

**Donald L. Robberson, Grady F.
Saunders**



Molecular Genetics Of Cancer:

Molecular Genetics of Cancer John Cowell, 2001-06-15 Molecular Genetics of Cancer Second Edition provides an authoritative and up to date review of the key genes known to be critical in the development or progression of cancer Throughout the book scientific advances and their clinical relevance are covered in detail particularly in the light of findings concerning the inheritance of genes predisposing to tumorigenesis The book is therefore a valuable source of reference for clinicians and genetic counsellors as well as researchers

Introduction to the Molecular Genetics of Cancer Richard G. Vile, 1992-07-14 Begins with a clinically based description and classification of what cancer represents as a disease of cells then continues with a review of the historical basis of the oncogene concept It generates a general perspective on the genetic contributions to carcinogenesis as an integrated disease process

Molecular Genetics of Cancer John Cowell, 2003-12-16 Molecular Genetics of Cancer Second Edition provides an authoritative and up to date review of the key genes known to be critical in the development or progression of cancer Throughout the book scientific advances and their clinical relevance are covered in detail particularly in the light of findings concerning the inheritance of genes predisposing to tumorigenesis The book is therefore a valuable source of reference for clinicians and genetic counsellors as well as researchers

The Genetics of Cancer B.A. Ponder, M.J. Waring, 2012-12-06 It has been recognized for almost 200 years that certain families seem to inherit cancer It is only in the past decade however that molecular genetics and epidemiology have combined to define the role of inheritance in cancer more clearly and to identify some of the genes involved The causative genes can be tracked through cancer prone families via genetic linkage and positional cloning Several of the genes discovered have subsequently been proved to play critical roles in normal growth and development There are also implications for the families themselves in terms of genetic testing with its attendant dilemmas if it is not clear that useful action will result The chapters in The Genetics of Cancer illustrate what has already been achieved and take a critical look at the future directions of this research and its potential clinical applications

The Genetics of Cancer Gajanan V. Sherbet, M. S. Lakshmi, 1997-06-22 Written by internationally recognized experts The Genetics of Cancer provides up to date information and insight into the genetic basis of cancer and the mechanisms involved in cancer invasion and its secondary spread This volume presents the deregulation of the cell cycle in tumor development and integrates the function of tumor suppressor genes oncogenes and metastasis associated genes in the pathogenesis and progression of cancer The Genetics of Cancer will be useful to all graduate students clinicians and researchers working in the fields of cancer biology genetics and molecular biology Clonal evolution of the metastasis phenotype Cell Cycle regulation Apoptosis in tumour growth and metastasis Angiogenesis in cancer Cell surface glycoproteins and their receptors Proteinases and their inhibitors in cancer invasion Oncogenes and cancer metastasis Developmental genes Tumour suppressor genes Metastasis suppressor genes Dominant metastasis associated genes

Introduction to the Cellular and Molecular Biology of Cancer Margaret Knowles, Peter

Selby, 2005-07-28 What is cancer L M Franks and Margaret A Knowles 2 The causes of cancer Naomi Allen Robert Newton Amy Berrington de Gonzalez Jane Green Emily Banks and Timothy J Key 3 Inherited Susceptibility to Cancer D Timothy Bishop 4 DNA Repair and Cancer Beate Koberle John P Wittschieben and Richard D Wood 5 Epigenetic Events in Cancer Jonathan C Cheng and Peter A Jones 6 Molecular Cytogenetics of Cancer Denise Sheer and Janet Shipley 7 Oncogenes Margaret A Knowles 8 Tumour suppressor genes Sonia Lain and David P Lane 9 The cancer cell cycle Chris J Norbury 10 Cellular immortalization and telomerase activation in cancer Robert F Newbold 11 Growth factors and their signalling pathways in cancer Sally A Prigent 12 Apoptosis molecular physiology and significance for cancer therapeutics Dean A Fennell 13 Mechanisms of Viral Carcinogenesis Paul Farrell 14 Cytokines and Cancer Peter W Szlosarek and Frances R Balkwill 15 Hormones and cancer Charlotte L Bevan 16 The spread of tumours Ian Hart 17 Angiogenesis K Tahtis and R Bicknell 18 Stem cells haemopoiesis and leukaemia Mel Greaves 19 Animal models of cancer Jos Jonkers and Anton Berns 20 The immunology of cancer Peter C L Beverley 21 The molecular pathology of cancer Tatjana Crnogorac Jurcevic Richard Poulson and Nicholas R Lemoine 22 From transcriptome to proteome Silvana Debernardi Rachel Craven Bryan D Young and Rosamonde E Banks 23 Local treatment of cancer Ian S Fentiman 24 Chemotherapy D R Camidge and D I Jodrell 25 Radiotherapy and molecular radiotherapy Anne Kiltie 26 Monoclonal antibodies and therapy T Geldart M J Glennie and P W M Johnson 27 Immunotherapy of cancer Andrew M Jackson and Joanne Porte 28 Cancer gene therapy John David Chester 29 Screening Peter Sasieni and Jack Cuzick 30 Conclusions and prospects Peter Selby and Margaret A Knowles

Molecular Biology of Cancer Fiona Macdonald, Christopher Ford, Alan Casson, 2004-06-02 Molecular Biology of Cancer has been extensively revised and covers heredity 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

Molecular Genetics in Cancer Diagnosis Jeffrey Cossman, 1990-01-01 *Biochemistry and Molecular Genetics of Cancer Metastasis* Karoly Lapis, L.A. Liotta, A.S. Rabson, 2012-12-06 The success rate for treatment of primary neoplasms has improved significantly due to improved surgical radiotherapy and chemotherapy methods and by supportive patient care In contrast the treatment of cancer metastases the cause of most cancer deaths has not been very successful Approximately 50% or more of patients with primary malignant neoplasms already have established metastases Consequently the most important problem in cancer treatment is the destruction or prevention of metastases Metastases research has obvious clinical importance Yet it has only been recently that investigators have attempted to study the mechanisms involved in this process This is in part due to the complexity of metastases formation A metastatic colony is the result of a complicated series of steps involving multiple tumor host interactions It is expected that multiple biochemical

factors and gene products derived both from the host and the tumor cell may be required for the metastasizing tumor cell to invade survive host defenses travel in the circulation arrest and adhere in the target organ invade out and grow as a metastatic colony Some of these factors have recently been identified by investigators who have focused on individual steps in the metastatic process and have employed new technologies in immunology biochemistry and molecular biology The purpose of this volume is to capture some of the excitement in the field of metastases based on such new discoveries

Perspectives on Genes and the Molecular Biology of Cancer Donald L. Robberson, Grady F. Saunders, 1983 The Molecular Genetics of Lung Cancer David N Cooper, 2005-11-20 Lung cancer is the leading cause of cancer mortality in Western countries It also provides an archetypal example of how inherited predisposing genetic variants may interact with an environmental influence smoking to modulate individual cancer risk The Molecular Genetics of Lung Cancer describes how the new techniques methods and approaches of molecular genetics are being used to unravel the complexities of the mechanisms underlying lung tumorigenesis by analysis at the DNA RNA and protein levels with potentially important implications for tumour classification diagnosis prognosis and treatment as well as providing new insights into how lung tumours arise and how they progress to malignancy *Molecular Genetics of Lung Cancer* John D. Minna, 1988

Molecular Biology of Cancer: Translation to the Clinic, 2010-12-16 Advances in molecular biology over the last several decades are being steadily applied to our understanding of the molecular biology of cancer and these advances in knowledge are being translated into the clinical practice of oncology This volume explores some of the most exciting recent advances in basic research on the molecular biology of cancer and how this knowledge is leading to advances in the diagnosis treatment and prevention of cancer This series provides a forum for discussion of new discoveries approaches and ideas Contributions from leading scholars and industry experts Reference guide for researchers involved in molecular biology and related fields **Molecular Genetics of Pancreatic Cancer** Diane M. Simeone, Anirban Maitra, 2013-04-05 Pancreatic cancer is a formidable disease and advances in early detection and improved therapeutics have been slow to come forth With new advances in molecular genetics in the field of pancreatic tumorigenesis it is an opportune time to use these recent discoveries to enhance our understanding of pancreatic cancer biology and to improve outcomes in patients In this volume leading experts in the field shed light on these findings describing the mutational landscape of pancreatic cancer including new inroads into our understanding of familial pancreatic cancer epidemiology the biology of K ras signaling and the emerging contribution of epigenetic alterations to disease initiation and progression The distinctive pancreatic cancer stroma ecosystem as determined by the dynamic interplay of inflammation hallmark mutations EMT and cancer stem cells is described and implications of these interactions in the context of development of novel personalized therapeutic options are explored Molecular Genetics in Surgical Oncology Jeffrey F. Moley, Steve H. Kim, 1994 *Breast Cancer* Anne M. Bowcock, 1999-01-11 A comprehensive state of the art summary of breast cancer research and treatment by leading

authorities The book's many distinguished contributors illuminate the biology and genetics of breast cancer including what is known about the hereditary breast cancer genes BRCA1 and 2 the cutting edge cytogenetic approaches and the biology of breast cancer metastasis In addition the authors describe current and future methods of breast cancer treatment in depth and discuss environment and diet as risk factors for the disease Breast Cancer Molecular Genetics Pathogenesis and Therapeutics constitutes an excellent reference and resource for all those clinical and experimental oncologists as well as genetic counselors nurses who need to understand the latest developments in breast cancer biology risk and treatment

Principles of Molecular Diagnostics and Personalized Cancer Medicine Dongfeng Tan, Henry T. Lynch, 2012-12-07 The role of molecular genetics in the treatment of malignancy continues to grow at an astonishing rate Today's subspecialized multidisciplinary approach to oncology has incorporated advances in targeted molecular therapy prognosis risk assessment and prevention all based at least in part on molecular diagnostics and imaging Inside this cutting edge resource readers will explore broad comprehensive perspectives on the current trends in molecular diagnosis of cancer and personalized cancer medicine Authoritative discussions share insights from noted experts in cancer research clinical trials molecular diagnostics personalized therapy bioinformatics and federal regulations From the basic mechanisms of carcinogenesis to the most advanced molecular screening staging and treatment technologies readers will discover clear and straightforward discussions directly relevant to patient diagnosis and care Cancer Cytogenetics Sverre Heim, Felix Mitelman, 2015-06-29 The first three editions of this acclaimed book presented a much needed conceptual synthesis of this rapidly moving field Now Cancer Cytogenetics Fourth Edition offers a comprehensive expanded and up to date review of recent dramatic advances in this area incorporating a vast amount of new data from the latest basic and clinical investigations New contributors reflecting broader international authorship and even greater expertise Greater emphasis throughout on the clinical importance and application of information about cytogenetic and molecular aberrations Includes a complete coverage of chromosome aberrations in cancer based on an assessment of the 60 000 neoplasms cytogenetically investigated to date Now produced in full color for enhanced clarity Covers how molecular genetic data PCR based and sequencing information are collated with the cytogenetic data where pertinent Discusses how molecular cytogenetic data based on studies using FISH CGH SNP etc are fused with karyotyping data to enable an as comprehensive understanding of cancer cytogenetics as is currently possible **New Molecular Genetic Techniques in Cancer Patient Management** Kate Ruddon, 1987

Cancer Cytogenetics Sverre Heim, Felix Mitelman, 2011-09-20 Cancer Cytogenetics 3rd Edition offers a comprehensive expanded and up to date review of recent dramatic advances in this area and incorporates a vast amount of new data from the latest basic and clinical investigations Edited by two leading experts and now involving a new panel of international experts the book offers an authoritative description of neoplastic processes at the chromosomal level of genomic organization Researchers in cytogenetics medical and molecular genetics cellular and molecular biology cancer research clinical oncology

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