Wolfgang A. Schulz

Molecular Biology of Human Cancers

Second Edition



Molecular Biology Of Human Cancers

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practitioners in various disciplines with this foundation bridging the gap between standard textbooks of molecular biology pathology and oncology on the one hand and the specialized cancer literature on the other The Molecular Biology of Cancer Stella Pelengaris, Michael Khan, 2006-04-17 This comprehensive text provides a detailed overview of the molecular mechanisms underpinning the development of cancer and its treatment Written by an international panel of researchers specialists and practitioners in the field the text discusses all aspects of cancer biology from the causes development and diagnosis through to the treatment of cancer Written by an international panel of researchers specialists and practitioners in the field Covers both traditional areas of study and areas of controversy and emerging importance highlighting future directions for research Features up to date coverage of recent studies and discoveries as well as a solid grounding in the key concepts in the field Each chapter includes key points chapter summaries text boxes and topical references for added comprehension and review Supported by a dedicated website at www blackwellpublishing compelengaris An excellent text for upper level courses in the biology of cancer for medical students and qualified practitioners preparing for higher exams and for researchers and teachers in the field The Molecular Biology of Cancer Stella Pelengaris, Michael Khan, 2013-03-13 The Molecular Biology of Cancer Stella Pelengaris each chapter builds on concepts learned in previous chapters with a list of key outstanding questions remaining in the field suggestions for further reading and questions for student review All chapters contain text boxes that provide additional and relevant information Key highlights are listed below An overview of the cancer cell and important new concepts Selected human cancers lung breast colorectal prostate renal skin cervix and hematological malignancies Key cellular processes in cancer biology including a traditionally important areas such as cell cycle control growth regulation oncogenes and tumour suppressors apoptosis as well as b more highly topical areas of apoptosis telomeres DNA damage and repair cell adhesion angiogenesis immunity epigenetics and the proteasome Clinical oncology In depth coverage of important concepts such as screening risk of cancer and prevention diagnoses managing cancer patients from start to palliative care and end of life pathways Chapters highlighting the direct links between cancer research and clinical applications New coverage on how cancer drugs are actually used in specific cancer patients and how therapies are developed and tested Systems Biology and cutting edge research areas covered such as RNA interference RNAi Each chapter includes key points chapter summaries text boxes and topical references for added comprehension and review Quotations have been used in each chapter to introduce basic concepts in an entertaining way Supported by a dedicated website at http www blackwellpublishing com pelengaris We should list the great reviews we got for first edition which are on the back of the 2nd edition A capturing comprehensive clearly written and absolutely accurate introduction into cancer biology This book deserves great praise for the readable presentation of this complex field the true synthesis of bench and bedside approaches is marvelously achieved Christian Schmidt Molecular Cell Chapters address the issues of cancer diagnosis treatment and patient care and set the book apart from general molecular biology references This book is

applicable to both graduate and undergraduate students and in the context of a research laboratory this book would be an excellent resource as a reference guide for scientists at all levels V Emuss Institute of Cancer Research London Also from the first edition Pelengaris Khan and the contributing authors are to be applauded The Molecular Biology of Cancer is a comprehensive and readable presentation of the many faces of cancer from molecular mechanisms to clinical therapies and diagnostics This book will be welcomed by neophyte students established scientists in other fields and curious physicians Dean Felsher Stanford University

The Molecular Basis of Human Cancer William B. Coleman, Gregory J. Tsongalis, 2001-08-10 Internationally renowned basic and clinical scientists provide an account of our best current understanding of the genetics of cancer These authoritative contributors describe in detail each of the known molecular mechanisms governing neoplastic transformation in the breast prostate lung liver colon and skin and in the leukemias and lymphomas Their discussion illuminates both recent developments and established concepts in epidemiology molecular techniques oncogenesis and mutation mechanisms as well as the chemical viral and physical mechanisms in cancer induction

Molecular Biology for Oncologists John Yarnold, Michael Stratton, 1993-01-01 Introduces clinicians to the importance of molecular biology in the research and treatment of cancer This text explains how new techniques involving the manipulation of genetic material in cells and organisms provide an insight into how cell behaviour is subverted in common Introduction to the Cellular and Molecular Biology of Cancer Margaret Knowles, Peter Selby, 2005-07-28 human cancers 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 heamopoiesis 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 Poulsom 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

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Introduction to Cancer Biology Robin Hesketh, 2012-12-13 This concise overview of the fundamental concepts of cancer biology is ideal for those with little or no background in the field A summary of global cancer patterns introduces students to the general principles of how cancers arise and the risk factors involved By focusing on fundamental examples of the signalling pathways within cells the functional effects of DNA damage are explained Later chapters then build on this foundation to provide a comprehensive summary of the major signalling pathways that affect tumour development Current therapeutic strategies are reviewed along with a discussion of methods for tumour detection and biomarker identification Finally the impact of whole genome sequencing is discussed bringing students up to date with key recent developments in the field From basic principles to insights into cutting edge research this book will enable the reader to move into the cancer field with confidence Matters of Life and Death John Cairns, 1998-09-13 The last 200 years have altered our life expectations beyond all recognition But the resulting population explosion threatens what we have gained in scientific progress In understandable lay terms Dr John Cairnsrecently retired from the Harvard School of Public Healthexplains what is known about cancer molecular biology and virology and how new breakthroughs in these areas are likely to affect future generations Illustrated Modern Molecular Biology: Srinivasan Yegnasubramanian, William B. Isaacs, 2010-09-02 Molecular biology has rapidly advanced since the discovery of the basic flow of information in life from DNA to RNA to proteins While there are several important and interesting exceptions to this general flow of information the importance of these biological macromolecules in dictating the phenotypic nature of living creatures in health and disease is paramount In the last one and a half decades and particularly after the completion of the Human Genome Project there has been an explosion of technologies that allow the broad characterization of these macromolecules in physiology and the perturbations to these macromolecules that occur in diseases such as cancer In this volume we will explore the modern approaches used to characterize these macromolecules in an unbiased systematic way Such technologies are rapidly advancing our knowledge of the coordinated and complicated changes that occur during carcinogenesis and are providing vital information that when correctly interpreted by biostatistical bioinformatics analyses can be exploited for the prevention diagnosis and treatment of human cancers The purpose of this volume is to provide an overview of modern molecular biological approaches to unbiased discovery in cancer research Advances in molecular biology allowing unbiased analysis of changes in cancer initiation and progression will be overviewed These include the strategies employed in modern genomics gene expression analysis and proteomics Human Cancer Amita Sarkar, 2009 Cancer Biology Roger John Benjamin King, Mike W. Robins, 2006 Providing an introduction of the biological principles of the causes and treatment of cancer this book covers key topics in cancer biology It is useful for students of cell biology biochemistry molecular biology genetics and biomedical sciences and

postgraduate students moving into cancer research ICRDB Cancergram ,1986 **API Textbook of Medicine** Yash Pal Information Resources in Toxicology P.J. Bert Hakkinen, Asish Mohapatra, Steven G. G. Gilbert, 2009-08-19 Munjal,2012 This latest version of Information Resources in Toxicology IRT continues a tradition established in 1982 with the publication of the first edition in presenting an extensive itemization review and commentary on the information infrastructure of the field This book is a unique wide ranging international annotated bibliography and compendium of major resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment Thoroughly updated the current edition analyzes technological changes and is rife with online tools and links to Web sites IRT IV is highly structured providing easy access to its information Among the hot topics covered are Disaster Preparedness and Management Nanotechnology Omics the Precautionary Principle Risk Assessment and Biological Chemical and Radioactive Terrorism and Warfare are among the designated International in scope with contributions from over 30 countries Numerous key references and relevant Web links Concise narratives about toxicologic sub disciplines Valuable appendices such as the IUPAC Glossary of Terms in Toxicology Authored by experts in their respective sub disciplines within toxicology Cellular and Molecular Biology of Human Carcinogenesis Roswell Knight Boutwell, Ilse L. Riegel, 1990 Modern Molecular Biology: Srinivasan Yegnasubramanian, William B. Isaacs, 2012-11-05 Molecular biology has rapidly advanced since the discovery of the basic flow of information in life from DNA to RNA to proteins While there are several important and interesting exceptions to this general flow of information the importance of these biological macromolecules in dictating the phenotypic nature of living creatures in health and disease is paramount In the last one and a half decades and particularly after the completion of the Human Genome Project there has been an explosion of technologies that allow the broad characterization of these macromolecules in physiology and the perturbations to these macromolecules that occur in diseases such as cancer In this volume we will explore the modern approaches used to characterize these macromolecules in an unbiased systematic way Such technologies are rapidly advancing our knowledge of the coordinated and complicated changes that occur during carcinogenesis and are providing vital information that when correctly interpreted by biostatistical bioinformatics analyses can be exploited for the prevention diagnosis and treatment of human cancers The purpose of this volume is to provide an overview of modern molecular biological approaches to unbiased discovery in cancer research Advances in molecular biology allowing unbiased analysis of changes in cancer initiation and progression will be overviewed These include the strategies employed in modern genomics gene expression analysis and proteomics **Research Awards** Index ,1989

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Molecular Biology Of Human Cancers Introduction

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