

Wolfgang A. Schulz

# Molecular Biology of Human Cancers

*Second Edition*

 Springer

# Molecular Biology Of Human Cancers

**Clemens Wendtner**



## **Molecular Biology Of Human Cancers:**

**Molecular Biology of Human Cancers** Wolfgang Schulz, 2005-02-09 Cancer research is now an interdisciplinary effort requiring a basic knowledge of commonly used terms facts issues and concepts This interdisciplinary book meets this need providing an authoritative overview to the field It presents many of the molecules and mechanisms generally important in human cancers and examines a broad but exemplary selection of cancers In addition cancer research has now reached a critical stage in which the accumulated knowledge on molecular mechanisms is gradually translated into improved prevention diagnosis and treatment This book summarizes the state pitfalls and potential of these efforts Molecular Biology of Human Cancers Wolfgang A. Schulz, 2023 This textbook describes the most relevant molecular and biological processes in cancer how they contribute to the development and progression of individual cancer types in humans and how insights from molecular cancer research can be applied to improve cancer prevention diagnostics and treatment Part I of the textbook summarizes the current fundamental knowledge on the general properties of cancers the causes of cancer cancer genetics genomics and epigenetics Individual chapters address the functions of DNA damage and repair oncogenes and tumor suppressors in carcinogenesis and discuss crucial mechanisms in cancer pathogenesis such as apoptosis and replicative senescence as well as the most relevant signal transduction pathways and regulatory networks Part I concludes with a chapter on tumor invasion and metastasis and tumor immunology In Part II the most relevant mechanisms acting in individual human cancers and subtypes are described in more detail This central part of the book contains individual sections on the most common human cancers highlighting the diversity in their genetic molecular and cellular pathogenic mechanisms How insights from molecular cancer research are translated into improvements in prevention diagnosis and treatment is outlined in Part III This new edition has been extensively revised and includes in particular updated information on cancer genomics epigenetics viral carcinogenesis cancer diagnostics and cancer therapy and a new chapter on lung cancers Now more than ever cancer research is an interdisciplinary endeavor that requires a basic knowledge of commonly used terms facts and concepts The aim of this book is to provide advanced students and 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 **Molecular Carcinogenesis and the Molecular Biology of Human Cancer** David Warshawsky, Joseph R. Landolph Jr., 2005-10-31 To gain a complete overview of what is presently known about molecular carcinogenesis would prove to be a very daunting task for those not already steeped in this complex subject Providing an in depth summary of the molecular aspects of carcinogenesis this text comprehensively covers chemical radiation and viral carcinogenesis from animal and human test data to metabolism and DNA binding It covers organic and metal carcinogenesis related to lung breast prostate skin liver colon brain and thyroid cancers The book explores the human implications of data regarding oncogenesis of transgenic and knockout mice and rats It also covers the genomics and

proteomics of chemoprevention risk and exposure assessments and regulation of carcinogens Molecular Carcinogenesis and the Molecular Biology of Human Cancer is an ideal text for graduate courses in cancer *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.com/pelengaris](http://www.blackwellpublishing.com/pelengaris) 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 *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 human cancers **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 **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 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 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 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 Cairns recently retired from the Harvard School of Public Health explains 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 **The Genetic Basis of Human Cancer** Kenneth W. Kinzler, 2002 Current coverage of diagnosis and

treatment on a wide spectrum of active cancer research      **ICRDB Cancergram** ,1986      **Molecular Biology for Oncologists** Trevor McMillan,Michael Stratton,John Yarnold,1996-01-01 The pathophysiology cell proliferation kinetics and metastasis of cancers and their responses to the currently employed therapies are increasingly being understood in terms of their genetic control mechanisms Parallel genetic investigations are being aggressively pursued for normal tissue systems The resultant greatly enhanced understanding is leading to clinically useful predictors of prognosis and the beginnings of new therapeutic strategies so as to augment the differential effect on tumour and normal tissues This includes not only manoeuvres which deploy the currently available treatment methods with greater effect but also the introduction into the clinic of conceptually different treatment strategies with the potential of great positive impact Development in the field of basic genetics of cancer biology cell cycle control angiogenesis immunology etc have been extraordinarily rapid with exceptional importance to medicine This area has attracted some of the keenest intellects and greatest enthusiasm in biology and medicine To illustrate the vigour and the growth rate of the research activity in this area note that the numbers of journal articles published with the words gene and cancer carcinoma sarcoma neoplasm tumour in the title or abstract for 1975 was 14 and for 1995 was 14 593 This number has increased dramatically over the past two decades The entire field of oncology clinical and laboratory has likewise been growing at a remarkable pace      **The Biology of Cancer** Weinberg, Robert A.,2013-05-24 Incorporating the most important advances in the fast growing field of cancer biology the text maintains all of its hallmark features It is admired by students instructors researchers and clinicians around the world for its clear writing extensive full color art program and numerous pedagogical features      **Biomedical Index to PHS-supported Research** ,1991      **Research Awards Index** ,1989      **Subject Index of Current Extramural Research Administered by the National Cancer Institute** ,1978

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