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Editor

Encyclopedia of Cancer

Fourth Edition

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With 1230 Figures and 260 Tables

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Preface to the Fourth Edition

Welcome to the fourth edition of the *Encyclopedia of Cancer*. The third edition had appeared in 2011, and the tremendous response by the scientific community has encouraged us to prepare a subsequent edition that is now available. The past 5 years have seen an enormous progress in cancer research, with particular emphasis on the bench-to-bed paradigm and the application of personalized cancer medicine.

For this new edition, the multidisciplinary approach bridging basic science and clinical application was further developed. Numerous new entries by authorities from the international scientific community were added to meet the substantial progress in molecular cancer etiology, diagnostics, and therapy. Entries from the third edition were updated, and new entries were added addressing central areas of basic and clinical cancer research, such as personalized cancer medicine, immunotherapy, pediatric and adult oncology, and epigenetics.

The *Encyclopedia of Cancer*, fourth edition, will be available both in print and online version. The online version is designed as an interactive and dynamic database where authors at any time will be able to modify and update presentations in order to keep the content up to date. Additionally, new entries can be entered at any time, and contributors are encouraged to suggest new topics that they feel are insufficiently covered.

The technical preparation of the *Encyclopedia of Cancer* would not have been possible without the competent and dedicated input by Daniela Graf and Melanie Thanner. Their excellent and pleasant cooperation is highly appreciated. Thanks also to the publisher who has taken every effort to develop this prestigious *Encyclopedia of Cancer* into a useful instrument from which both basic scientists and clinicians may benefit.

Heidelberg, March 1, 2016
Manfred Schwab

Preface to the Third Edition

Recent developments in the rapidly developing field of cancer research are seeing a dynamic progress in basic and clinical cancer science, with translational research increasingly becoming a new paradigm. In particular, the identification of a large number of prognostic and predictive clinically validated biomarkers now allows exciting and promising new approaches in both personalized cancer medicine and targeted therapies to be pursued.

The third edition of the *Encyclopedia of Cancer* is now available 10 years after the first edition had come out in 2001. Numerous new entries addressing topics of basic cancer research have been added. As a major new feature, up-to-date and authoritative essays present a comprehensive picture of topics ranging from pathology, to clinical oncology and targeted therapies for personalized cancer medicine for major cancers types, such as breast cancer, colorectal cancer, prostate cancer, ovarian cancer, renal cancer, lung cancer, and hematological malignancies, leukemias, and lymphomas. This information source should be of great value to both the clinical and basic science community.

The *Encyclopedia of Cancer*, Third Edition, is available both in print and online versions. Contributors to the *Encyclopedia of Cancer* are encouraged to keep their presentations up-to-date by online editing. Clinical and basic scientists are encouraged to suggest new essays to the editor-in-chief.

The technical preparation of the *Encyclopedia of Cancer* would not have been possible without the competent input of Jutta Jaeger-Hamers, Melanie Thanner, and Saskia Ellis; their excellent and pleasant cooperation is highly appreciated.

Heidelberg, Germany
Manfred Schwab

Preface to the Second Edition

Given the overwhelming success of the first edition of the Cancer Encyclopedia, which appeared in 2001, and the amazing development in the different fields of cancer research, it has been decided to publish a second fully revised and expanded edition, following the principal concept of the first edition that has proven so successful.

Recent developments are seeing a dynamic merging of basic and clinical science, with translational research increasingly becoming a new paradigm in cancer research. The merging of different basic and clinical science disciplines toward the common goal of fighting against cancer has long ago called for the establishment of a comprehensive reference source both as a tool to close the language gap between clinical and basic science investigators and as a platform of information for advanced students and informed laymen alike. It is intended to be a resource for all interested in information beyond their own specific expertise.

While the first edition had featured contributions from approximately 300 scientists/clinicians in one volume, the second edition includes more than 1,000 contributors in four volumes with an A–Z format of more than 7,000 entries. It provides definitions of common acronyms and short definitions of both related terms and processes in the form of keyword entries. A major information source are detailed essays that provide comprehensive information on syndromes, genes and molecules, and processes and methods. Each essay is well structured, with extensive cross-referencing between entries. Essays represent original contributions by the corresponding authors, all distinguished scientists in their own field, editorial input has been carefully restricted to formal aspects.

A panel of field editors, each an eminent international expert for the corresponding field, has served to ensure the presentation of timely and authoritative Encyclopedia entries. These new traits are likely to meet the expectance that a wide community has toward a cancer reference work.

An important element in the preparation of the Encyclopedia has been the competent support by the Springer crew, Dr. Michaela Bilic, Saskia Ellis, and lately, Jana Simniok. I am extremely grateful for their excellent and pleasant cooperation.

The Cancer Encyclopedia, Second Edition, will be available both in print and online versions. Clinicians, research scientists, and advanced students will find this an amazing resource and a highly informative reference for cancer.

Heidelberg, Germany
Manfred Schwab

Preface to the First Edition

Cancer, although a dreadful disease, is at the same time a fascinating biological phenotype. Around 1980, cancer was first attributed to malfunctioning genes and, subsequently, cancer research has become a major area of scientific research supporting the foundations of modern biology to a great extent. To unravel the human genome sequence was one of those extraordinary tasks, which has largely been fueled by cancer research, and many of the fascinating insights into the genetic circuits that regulate developmental processes have also emerged from research on cancer.

Diverse biological disciplines such as cytogenetics, virology, cell biology, classical and molecular genetics, epidemiology, biochemistry, together with the clinical sciences, have closed ranks in their search of how cancer develops and to find remedies to stop the abnormal growth that is characteristic of cancerous cells. In the attempt to establish how, why, and when cancer occurs, a plethora of genetic pathways and regulatory circuits have been discovered that are necessary to maintain general cellular functions such as proliferation, differentiation, and migration. Alterations of this fine-tuned network of cascades and interactions, due to endogenous failure or to exogenous challenges by environmental factors, may disable any member of such regulatory pathways. This could, for example, induce the death of the affected cell, may mark it for cancerous development or may immediately provide it with a growth advantage within a particular tissue.

Recent developments have seen the merger of basic and clinical science. Of the former, particularly genetics has provided instrumental and analytical tools with which to assess the role of environmental factors in cancer, to refine and enable diagnosis prior to the development of symptoms, and to evaluate the prognosis of patients. Hopefully, even better strategies for causal therapy will become available in the future. Merging the basic and clinical science disciplines toward the common goal of fighting cancer calls for a comprehensive reference source to serve both as a tool to close the language gap between clinical and basic science investigators and as an information platform for the student and the informed layperson alike. Obviously this was an extremely ambitious goal, and the immense progress in the field cannot always be portrayed in line with the latest developments. The aim of the Encyclopedia is to provide the reader with an entrance point to a particular topic. It should be of value to both basic and clinical scientists working in the field of cancer research. Additionally, both students and lecturers in the life sciences should

benefit highly from this database. I therefore hope that this Encyclopedia will become an essential complement to existing science resources.

The attempts to identify the mechanisms underlying cancer development and progression have produced a wealth of facts, and no single individual is capable of addressing the immense breadth of the field with undisputed authority. Hence, the “Encyclopedic Reference of Cancer” is the work of many authors, all of whom are experts in their fields and reputable members of the international scientific community. Each author contributed a large number of keyword definitions and in-depth essays and in so doing it was possible to cover the broad field of cancer-related topics within a single publication. Obviously this approach entails a form of presentation, in which the author has the freedom to set priorities and to promote an individual point of view. This is most obvious when it comes to nomenclature, particularly that of genes and proteins. Although the editorial intention was to apply the nomenclature of the Human Genome Organisation (HUGO), the more vigorous execution of this attempt has been left to future endeavors.

In the early phase of planning the Encyclopedia, exploratory contacts to potential authors produced an overwhelmingly positive response. The subsequent contact with almost 300 contributory authors was a marvelous experience, and I am extremely grateful for their excellent and constructive cooperation. An important element in the preparation of the Encyclopedia has been the competent secretarial assistance of Hiltrud Wilbertz of the Springer-Verlag and of Ingrid Cederlund and Cornelia Kirchner of the DKFZ. With great attention to detail they helped to keep track of the technical aspects in the preparation of the manuscript. It was a pleasure to work with the Springer crew, including Dr. Rolf Lange as the Editorial Director (Medicine) and Dr. Thomas Mager, Senior Editor for Encyclopedias and Dictionaries. In particular I wish to thank Dr. Walter Reuss, who untiringly has mastered all aspects and problems associated with the management of the numerous manuscripts that were received from authors of the international scientific community. It has been satisfying and at times comforting to see how he made illustration files come alive. Thanks also to Dr. Claudia Lange who, being herself a knowledgeable cell biologist, has worked as the scientific editor. Her commitment and interest have substantially improved this Encyclopedia. As a final word, I would like to stress that although substantial efforts have been made to compose factually correct and well-understandable presentations, there may be places where a definition is incomplete or a phrase in an essay is flawed. All contributors to this Encyclopedia will be extremely happy to receive possible corrections, or revisions, in order for them to be included in any future editions of the “Encyclopedic Reference of Cancer.”

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