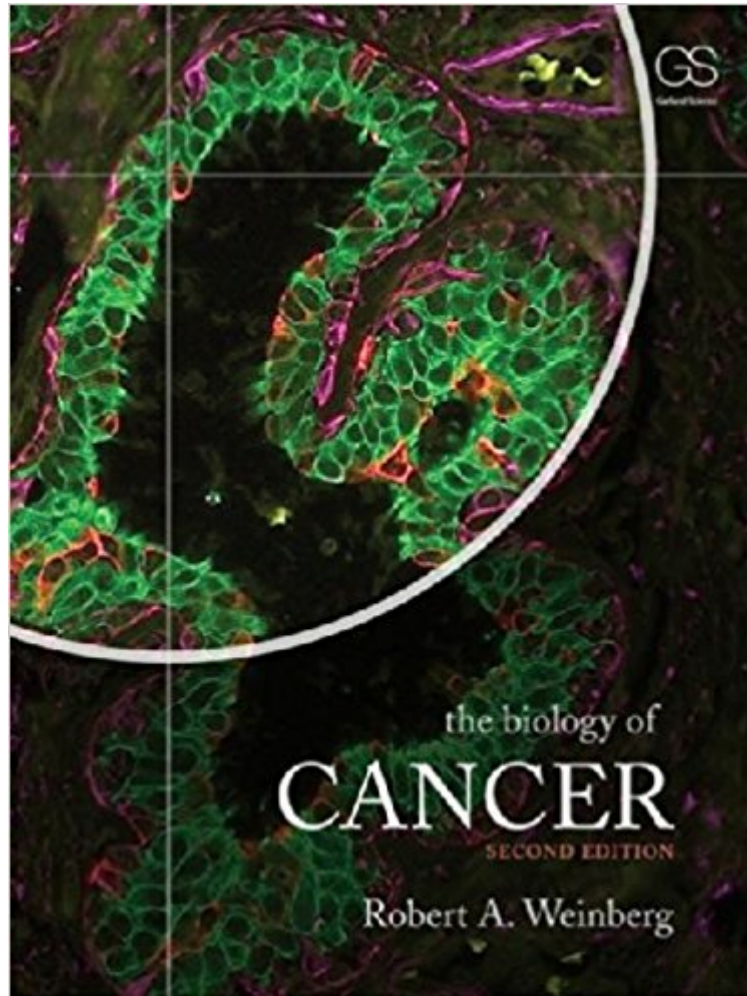




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# The Biology Of Cancer, 2nd Edition



## Synopsis

Thoroughly updated and incorporating the most important advances in the fast-growing field of cancer biology, *The Biology of Cancer*, Second Edition, maintains all of its hallmark features admired by students, instructors, researchers, and clinicians around the world. *The Biology of Cancer* is a textbook for students studying the molecular and cellular bases of cancer at the undergraduate, graduate, and medical school levels. The principles of cancer biology are presented in an organized, cogent, and in-depth manner. The clarity of writing, supported by an extensive full-color art program and numerous pedagogical features, makes the book accessible and engaging. The information unfolds through the presentation of key experiments that give readers a sense of discovery and provide insights into the conceptual foundation underlying modern cancer biology. The new Second Edition has been comprehensively revised and updated to include major advances in cancer biology over the past six years. Updates include current information on: The tumor microenvironment Metastatic dissemination Tumor immunology Cancer stem cells The epithelial-mesenchymal transition Multi-step tumorigenesis Invasion and metastasis Mutation of cancer cell genomes Greatly expanded treatment of traditional therapy Epigenetic contributions MicroRNA involvement The Warburg effect Besides its value as a textbook, *The Biology of Cancer* is a useful reference for individuals working in biomedical laboratories and for clinical professionals. Every copy of the book comes with an updated "Pathways in Human Cancer" poster and a DVD-ROM containing the book's art program, a greatly expanded selection of movies, audio file mini-lectures, Supplementary Sidebars, and a Media Guide.

## Book Information

Paperback: 876 pages

Publisher: Garland Science; 2nd edition (May 18, 2013)

Language: English

ISBN-10: 0815342209

ISBN-13: 978-0815342205

Product Dimensions: 1.2 x 8.5 x 11 inches

Shipping Weight: 4.3 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 163 customer reviews

Best Sellers Rank: #21,564 in Books (See Top 100 in Books) #2 in Books > Textbooks >

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## Customer Reviews

"The book fulfills its purpose and is, indeed, a must-read for students of cancer biology. It includes updated information and concepts in cancer research that justify replacing the previous edition." - Doody Reviews "This publication represents an exhaustive and detailed coverage of the field of basic oncology oriented toward a student audience, and it continues to set the highest example of excellence in the field of undergraduate and graduate oncology." - The Quarterly Review of Biology "Clearly, not only is it an authoritative text book on the complex biology of cancer, it serves as an invaluable reference document for individuals working in biomedical laboratories as well as professionals involved in day to day management of cancer in the clinics." - Oncology News Praise for the First Edition of THE BIOLOGY OF CANCER by Robert A. Weinberg: "There is no comparable text in cancer biology." - Nature "The Biology of Cancer is no doubt the definitive statement on its topic today." - Science "Here, at last, we have a definitive textbook specifically devoted to the molecular and cell biology of cancer." - Bioscience Education "Overall, this is a remarkable achievement that is by far the most comprehensive coverage of this field available." - Times Higher Education Supplement

Dr. Robert A. Weinberg is a founding member of the Whitehead Institute for Biomedical Research. He is the Daniel K. Ludwig Professor for Cancer Research and the American Cancer Society Research Professor at the Massachusetts Institute of Technology (MIT). Dr. Weinberg is an internationally recognized authority on the genetic basis of human cancer and was awarded the U.S. National Medal of Science by President Clinton in 1997.

Definitely the right textbook for a comprehensive introduction to cancer. Like a giant review article, but with more breathing room to go into historical experiments and explain how we have arrived at the current understanding of cancer. And, lots of excellent illustrations and micrographs. You are getting more than a typical textbook; it is more like a work of literature. "Sidebars" are used often for things to read if you have the time. If you are not an expert in cell biology, the book takes care to explain concepts in the context of cancer; for example, it gives a primer on the immune system at the beginning of the immunology chapter. Note, this is not a textbook of cancers or pathology, but of our current understanding of how all cancers work, mostly at the molecular level. I am reading this as a medical student and for that purpose, it is both too long and missing the pathology that I need,

but I don't regret it. Like I said, this textbook is more about providing a complete and up-to-date understanding for the science-minded individual. On that basis I can recommend it to an enthusiastic undergraduate.

The biology of cancer-first edition by Prof. R. A. Weinberg was an immediate hit. A masterpiece for clarity, sublime scholarship and style. The second edition has all of the qualities appreciated by the readers including a very solid chapters update. All chapters have been rewritten and new data added covering the latest trend in scientific literature. A DVD is included containing images and movies. The book is further enhanced by a process of revision and update that magically cover almost any aspect, including immunology, therapy and cell biology. Prof. Weinberg is famous for scientific articles with a clear and incisive prose and the book offers all the nuances of his style. In addition, topics are extremely well integrated. Students and scientists will be happy to see how chapters are offering superlative insights with a unique perspective of the field. I was waiting the second edition for several years. And I am surprised to see how a masterpiece morphed into another one. Images and printing are state of the art.

My oncologist thinks Weinberg is the best. This is an amazingly well written book. I do not have a professional science background (although my husband does) but I was able to deal with it. It would help (a lot) to have biology at least at the level of a good intro college course. For the exciting material on cell signaling I found myself going to The Essential Cell Biology by Alberts et al. to pick up some background. When I took biology in college cell signaling was not the big deal it has become. Essential Cell Biology is another really great and well written book! On the other hand, the Biology of Cancer is not an oncology book. It is a basic science text. This is not to say that Weinberg does not mention clinical applications, but the focus is on understanding the basic science of cancer. Really, this is a great and fascinating read. I almost found myself cheering for the intrepid cancer cells no longer in my body (hopefully) Almost.

The book is almost 900 pages in length. I am currently on page 350 and can't put it down. It is as technically informative as an Alberts Biology book and as intense a read as any of the great Stephen King Novels. Weinberg recommends that the book be read from start to finish and not to jump around. It does seem reading from beginning to end really is the best way to absorb the material. I just wish I could read faster to discover what is coming up sooner. Weinberg does a beautiful job. The figures are informative. The images are beautiful. The accompanying movies are

interesting. I estimate that it will take me about 4 to 6 months to read the entire book if I read a chapter (60+ pages) every 1 to 1.5 weeks. You could read it faster if pushed to do the reading while taking a class or were extremely motivated.

Comprehensive book to get an updated knowledge of cancer and all the processes involved. Contains good figures and tables to make the contents clear. For people with a strong background in biological sciences

It is better than I expected. I was expecting a more erudite exposition with lots of organic chemistry equations. But, the book is highly readable. Of course, it does require the reader to have cell biology background. I am into the 6th chapter right now and it is getting more interesting.

First off I need to state that I am not an oncologist, oncology fellow or graduate student. I am an internist that practices general internal medicine. I found this book to be absolutely fascinating and a must read for all physicians, regardless of specialty. It is well written and Dr. Weinberg takes an incredibly complex topic and lays it out step by step in a fashion that if read slowly enough, and scrupulously, unfolds into a beautifully laid out system that makes the reader want to keep reading, and learning, and finally understanding why cancer is such a formidable foe. This topic is a difficult read in any format however it is presented in such a way in this textbook like style that a generalist like myself, many years away from medical school, could follow it like a novel. I strongly recommend this book to those that want an understanding of how cancers come about in normal tissues and how it is they can survive, and thrive and too often triumph. This book is not only an academic exercise but has been invaluable to me in my practice. Every day one comes across the terms that the reader learns in this book. This includes cell signaling, cell membrane receptors, and targeted therapies directed at molecules found in the cytoplasm of cancer cells. I will buy this book again if an updated edition comes out in the future. If you love medicine and realize that you need to truly understand the pathophysiology or molecular biology of cancer to be better prepared to take care of your patients, then buy this book.

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