



Springer

1st
edition

1st ed. 2019, IX, 216 p. 71
illus. in color.

Printed book

Softcover

Printed book

Softcover

ISBN 978-3-030-11811-2

£ 64,99 | CHF 88,50 | 74,99 € |

82,49 € (A) | 80,24 € (D)

Available

Discount group

Standard (0)

Product category

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Biomedicine : Cancer Research

Fior, Rita, Zilhão, Rita (Eds.)

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This textbook takes you on a journey to the basic concepts of cancer biology. It combines developmental, evolutionary and cell biology perspectives, to then wrap-up with an integrated clinical approach. The book starts with an introductory chapter, looking at cancer in a nut shell. The subsequent chapters are detailed and the idea of cancer as a mass of somatic cells undergoing a micro-evolutionary Darwinian process is explored. Further, the main Hanahan and Weinberg "Hallmarks of Cancer" are revisited. In most chapters, the fundamental experiments that led to key concepts, connecting basic biology and biomedicine are highlighted. In the book's closing section all of these concepts are integrated in clinical studies, where molecular diagnosis as well as the various classical and modern therapeutic strategies are addressed. The book is written in an easy-to-read language, like a one-on-one conversation between the writer and the reader, without compromising the scientific accuracy. Therefore, this book is suited not only for advanced undergraduates and master students but also for patients or curious lay people looking for a further understanding of this shattering disease.

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