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Quo vadis cancer therapy?: Fascinating discoveries of the last 60 years (Paperback)

By Volker Schirrmacher

LAP Lambert Academic Publishing, 2017. Paperback. Condition: New. Aufl.. Language: English . Brand New Book. Fascinating discoveries have been made in the last 60 years in cancer research. Yet, these discoveries have not changed the main methods of standard cancer treatment. Surgery, radiotherapy and chemotherapy were developed in the first half of the 20th century. At this time nothing was known about the biology of cancer metastasis and about the role of the immune system in the fight against cancer. This book is a plea for an update of cancer treatment by including biology-based treatments, such as immunotherapy and oncolytic virotherapy. These treatments have a higher tumor selectivity and lower side effects than radio-or chemotherapy. In addition they can induce long-lasting effects which are based on cancer-specific immunological variants. We now know that epigenetic mechanisms allow tumors to develop therapy-resistant variants. Therefore, efficacy of future cancer therapy could be improved by targeting cancer-associated epigenetic mechanisms. The tumor microenvironment represents an important support system for cancer growth, invasion and metastasis. Future strategies targeting the tumor microenvironment are considered as promising. The book addresses all people concerned with cancer.



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