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<b>Note generali</b>	Includes index.
<b>Nota di contenuto</b>	Prelims -- Drosophila model in cancer: an introduction -- Using Drosophila models and tools to understand the mechanisms of novel human cancer driver gene function -- The initial stage of tumorigenesis in Drosophila epithelial tissues -- Drosophila models of cell polarity and cell competition in tumourigenesis -- Two sides of the same coin – compensatory proliferation in regeneration and cancer -- P53 and apoptosis in the Drosophila model -- Autophagy and tumorigenesis in Drosophila -- Filling the gaps among obesity, the CDK8 module, and uterine tumors using Drosophila -- MicroRNAs in Drosophila cancer models -- Cancer Stem Cells and Stem Cell Tumors in Drosophila -- Drosophila as a model for tumor-induced organ wasting -- Drosophila melanogaster as a model system for human glioblastomas -- What Drosophila Can Teach Us About Radiation Biology of Human Cancers -- Drosophila based cancer drug discovery frameworkIn -- Index.

## Sommario/riassunto

This volume provides a series of review articles that capture the advances in using the fruit fly, *Drosophila melanogaster*, model system to address a wide range of cancer-related topics. Articles in this book provide case studies that shed light on the intricate cellular and molecular mechanisms underlying tumor formation and progression. Readers will discover the beauty of the fly model's genetic simplicity and the vast arsenal of powerful genetic tools enabling its efficient and adaptable use. This model organism has provided a unique opportunity to address questions regarding cancer initiation and development that would be extremely challenging in other model systems. This book provides a useful resource for a researcher who wishes to learn about and apply the *Drosophila* model to tackle fundamental questions in cancer biology, and to find new ways to fight against this devastating disease.

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