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Titolo	Handbook of Animal Models and its Uses in Cancer Research // edited by Surajit Pathak, Antara Banerjee, Atil Bisgin
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
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Descrizione fisica	1 online resource (1158 pages)
Disciplina	616.027
Soggetti	Cancer - Animal models Tumors Tumors - Immunological aspects Cancer Models Cancer Staging Tumour Immunology
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Module 1_Animal Models in Cancer Research -- Animal Models in Cancer Research -- Module 2_ Therapeutic Cancer Research and Animal Models-Module 3_Alternative approaches for models of cancer research.
Sommario/riassunto	This reference book compiles together different animal models in cancer research. It provides knowledge and a better understanding of the advancement of the molecular and cellular mechanisms associated with the progression, formation, and clinical results of various types of cancer from the evidence collected from animal models utilized for cancer research. It discusses animal models for screening anti-cancer drugs and exploration of gene therapy. It presents different methods used to construct cancer animal models and the progress of each animal model in tumor research. The book also highlights the applications of genetic engineering, including CRISP/Cas9, in designing and developing animal models for cancer research. Further, it discusses strategies for modeling animals for investigating growth, metastasis, tumor-associated inflammation and microenvironment, cancer stem cells, tumor heterogeneity, and therapeutic resistance. This book is a

valuable resource for basic and translational cancer researchers,  
clinicians, and health care.

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