1. Record Nr. UNINA9910987788703321

Titolo	Preclinical cancer models for translational research and drug development / / edited by Suresh P.K., Arindam Banerjee
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9757-42-8
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XI, 168 p. 51 illus., 50 illus. in color.)
Disciplina	571.978 616.994
Soggetti	Cancer Cancer - Animal models Tumor markers Cancers Cancer Models Tumour Biomarkers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preclinical Models for Cancer Research and Development.-Insight on the Current Advancements in the Diagnosis and Treatment of Head and Neck Cancer -- The role of oral cancer heterogeneity in therapies in various cellular and preclinical models -- In-depth analysis of Self-assembled in-vitro spheroidal and organoid systems -- Preclinical in vivo animal xenograft models -- Heterogeneity and biomarkers of therapeutic response and resistance -- Higher Order in vitro Models of dysregulated bioenergetics mechanisms and drug development -- In Silico Strategies for Cancer Model Development and Anticancer Drug Testing.
Sommario/riassunto	This book provides updated information on certain in vitro and preclinical in vivo cancer models. The topics covered include an update on advancements in the diagnosis, treatment and heterogeneity in certain cancers; the development of preclinical in vitro and xenograft-based in vivo cancer models as well as their validation based on widely-accepted biomarkers; modelling of aberrations in bioenergetics in cancers. Also, the importance and latest advances of in silico modeling

for the design of new and potent anti-cancer drugs has been reviewed. Cutting-edge and resourceful, this book is valuable for researchers, academicians, and professionals involved in cancer research.