1. Record Nr.   UNINA9910254650103321

   Titolo   Patient-Derived Xenograft Models of Human Cancer / / edited by
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   Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Humana, ,
                        2017

   ISBN   3-319-55825-0

   Edizione   [1st ed. 2017.]

   Descrizione fisica   1 online resource (204 pages)

   Collana   Molecular and Translational Medicine, , 2197-7852

   Disciplina   616.9940072

   Soggetti   Oncology
                        Oncology

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di bibliografia   Includes bibliographical references at the end of each chapters and
                          index.

   Nota di contenuto   Introduction -- History and Evolution of PDX Cancer Models --
                        Establishment and Characterization of PDX Models -- Methods of
                        Generating PDX Models -- Fidelity and Stability of PDX Models --
                        Applications of PDX Models -- Studies of Cancer Heterogeneity -- PDX
                        and Cancer Stem Cells -- Modeling Cancer Metastasis -- Modeling
                        Drug Resistance -- PDX and Biomarker Development -- PDX and
                        Preclinical Drug Screening -- Co-clinical Trials and Personalized Cancer
                        Therapy/Precision Medicine -- Epilogue -- Future Perspective.

   Sommario/riassunto   This book provides a comprehensive, state-of-the-art review of PDX
                        cancer models. In separately produced chapters, the history and
                        evolution of PDX models is reviewed, methods of PDX model
                        development are compared in detail, characteristics of available
                        established models are presented, current applications are summarized
                        and new perspectives about use of PDX models are proposed. Each
                        chapter is written by a world-renowned expert who is conducting
                        cutting-edge research in the field. Each of the subsections provide a
                        comprehensive review of existing literature addressing the particular
                        topic followed by a conclusive paragraph detailing future directions.
                        Extensive illustrations make this an interactive text. Patient-Derived
                        Xenograft Models of Human Cancer will serve as a highly useful
                        resource for researchers and clinicians dealing with, or interested in,

this important topic. It will provide a concise yet comprehensive summary of the current status of the field that will help guide preclinical and clinical applications as well as stimulate investigative efforts. This book will propagate innovative concepts and prompt the development of ground-breaking technological solutions in this field.