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Anticancer drug development guide : preclinical screening, clinical trials, and approval /

Teicher, Beverly A. (1952-)

Humana Press, ©1997

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Monografía

Experienced cancer researchers from pharmaceutical companies, government laboratories, and academia comprehensively review and describe in Dr. Beverly Teicher's Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval the arduous process of cancer drug discovery and approval. The expert contributors focus on using in vivo and in vitro methods preclinically to identify molecules of interest, detailing the targets and criteria for success in each type of testing, and defining the value of the information obtained from the various tests. They also define each stage of clinical testing, explain the criteria for success, and outline the requirements for FDA approval. A companion volume by the same editor (Cancer Therapeutics: Experimental and Clinical Agents) reviews existing anticancer drugs and potential anticancer therapies. Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval offers cancer researchers an authoritative survey rich in essential insight into the means and methods of cancer drug discovery and approval. These two volumes in the Cancer Drug Discovery and Development series reveal how and why molecules become anticancer drugs and thus offer a blueprint for present and future developments in the field

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Contenido: pt. 1. In vitro methods -- High-volume screening -- The NCI in vitro anticancer drug discovery screen: concept, implementation, and operation, 1985-1995 -- Human tumor screening -- pt. 2. In vivo methods -- Murine L1210 and P388 leukemias -- In vivo methods for screening and preclinical testing: use of rodent solid tumors for

drug discovery -- Human tumor xenograft models in NCI drug development -- Fertile seed and rich soil: the development of clinically relevant models of human cancer by surgical orthotopic implantation of intact tissue -- Preclinical models for high-dose therapy -- Models for minimal residual tumor -- Spontaneously occurring tumors in companion animals as models for drug development -- pt. 3. Clinical testing -- Working with the National Cancer Institute -- Phase I trial design and methodology -- Phase II clinical trials in oncology -- Drug development in Europe -- The phase III cancer clinical trial -- FDA role in cancer drug development and requirements for approval

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