



# Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development)

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**Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development)** From Brand: Humana Press

This unique volume traces the critically important pathway by which a "molecule" becomes an "anticancer agent." The recognition following World War I that the administration of toxic chemicals such as nitrogen mustards in a controlled manner could shrink malignant tumor masses for relatively substantial periods of time gave great impetus to the search for molecules that would be lethal to specific cancer cells. We are still actively engaged in that search today. The question is how to discover these "anticancer" molecules. *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval, Second Edition* describes the evolution to the present of preclinical screening methods. The National Cancer Institute's high-throughput, *in vitro* disease-specific screen with 60 or more human tumor cell lines is used to search for molecules with novel mechanisms of action or activity against specific phenotypes. The Human Tumor Colony-Forming Assay (HTCA) uses fresh tumor biopsies as sources of cells that more nearly resemble the human disease. There is no doubt that the greatest successes of traditional chemotherapy have been in the leukemias and lymphomas. Since the earliest widely used *in vivo* drug screening models were the murine L 1210 and P388 leukemias, the community came to assume that these murine tumor models were appropriate to the discovery of "antileukemia" agents, but that other tumor models would be needed to discover drugs active against solid tumors.

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### **Editorial Review**

#### **Review**

From Reviews of the First Edition:

"...traces the critically important pathway by which a 'molecule' becomes an 'an anticancer agent'."

-Unlisted Drugs

"...this book is a must for all oncology fellows and junior faculty interested in drug development and will be a welcome addition on the bookshelf of all oncologists, pharmacists and other professionals interested in understanding this complex area." -Journal of Clinical Oncology

#### **From the Back Cover**

In this thoroughly updated and expanded second edition of Beverly Teicher's widely used classic survey, *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval*, leading cancer researchers from pharmaceutical companies, government laboratories, and academia provide a step-by-step guide to anticancer drug development from initial design through FDA approval. The authors have included new material on the use of high-throughput screening in industry, on specialized in vitro/in vivo procedures employed by the National Cancer Institute (NCI) in preclinical drug evaluations, and on nonclinical testing to support both human clinical trials, as well as trials of biologic oncology products. There are also new chapters on health-related quality of life (HRQL) issues in cancer clinical trials, and FDA review and requirements for approval of oncologic products. The chapters on phase I, II, and III clinical trials and on novel phase II clinical trial designs for targeted therapies have been significantly updated, along with those on cancer drug development in Europe, on working with the NCI, as well as on the FDA's role in cancer drug development and in setting requirements for approval.

Authoritative and up-to-date, *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval* takes oncologists, pharmacologists, medicinal chemists, and other cancer researchers on an encyclopedic tour of the cancer drug development and approval process, moving from the design and execution of high-throughput screens, to preclinical testing, to safety and toxicity testing under FDA requirements, to early clinical trials, and on to final FDA approval.

### **Users Review**

#### **From reader reviews:**

##### **Elida Allman:**

This *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development)* book is not ordinary book, you have after that it the world is in your hands. The benefit you will get by reading this book will be information inside this e-book incredible fresh, you will get info which is getting deeper a person read a lot of information you will get. This particular *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development)* without we recognize teach the one who looking at it become critical in imagining and analyzing. Don't end up being worry *Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development)* can bring if you are and not make your bag space or bookshelves' turn into full because you can have it with your lovely laptop even

mobile phone. This Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development) having great arrangement in word and also layout, so you will not really feel uninterested in reading.

**Raymond Bailey:**

Nowadays reading books are more than want or need but also be a life style. This reading addiction give you lot of advantages. The benefits you got of course the knowledge your information inside the book in which improve your knowledge and information. The information you get based on what kind of book you read, if you want attract knowledge just go with education books but if you want really feel happy read one along with theme for entertaining including comic or novel. The actual Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development) is kind of reserve which is giving the reader unpredictable experience.

**Mary Mohammad:**

Playing with family in a very park, coming to see the marine world or hanging out with close friends is thing that usually you could have done when you have spare time, after that why you don't try thing that really opposite from that. A single activity that make you not sense tired but still relaxing, trilling like on roller coaster you have been ride on and with addition of knowledge. Even you love Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development), you may enjoy both. It is fine combination right, you still need to miss it? What kind of hangout type is it? Oh occur its mind hangout folks. What? Still don't get it, oh come on its called reading friends.

**Eddie Drennan:**

In this time globalization it is important to someone to obtain information. The information will make a professional understand the condition of the world. The fitness of the world makes the information simpler to share. You can find a lot of recommendations to get information example: internet, classifieds, book, and soon. You will observe that now, a lot of publisher this print many kinds of book. The actual book that recommended for your requirements is Anticancer Drug Development Guide: Preclinical Screening, Clinical Trials, and Approval (Cancer Drug Discovery and Development) this book consist a lot of the information of the condition of this world now. This particular book was represented so why is the world has grown up. The terminology styles that writer use to explain it is easy to understand. Typically the writer made some study when he makes this book. This is why this book suited all of you.

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