



# A Pharmacology Primer: Theory, Application and Methods

By Terry Kenakin

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## A Pharmacology Primer: Theory, Application and Methods By Terry Kenakin

This successful guide assists scientists trained in molecular biology and related fields who now need to know the basic theories, principles and practical applications of pharmacology. This latest edition continues the tradition of better preparing researchers in the basics of pharmacology. With expanded hands-on exercises and the addition of Pharmacokinetics coverage, new human interest material including historical facts in pharmacology and a new section on therapeutics that will help readers identify with diseases and drug treatments.

The ideal book for researchers in drug discovery who have seen their role shift from "individual" to "team player" where that team includes chemists, biologists, and others with strong, but varied, science backgrounds who must now work together toward their common pharmacology goal.

At GlaxoSmithKline, a pharmaceuticals world-leader, Terry Kenakin regularly teaches a course for their research scientists and has drawn on his experience to create a pharmacology primer.

\*New - Latest coverage of the chemistry of drugs including expanded coverage of the pharmacokinetic discussion of druglike properties -- Increases reader understanding of necessary ADME (Absorption, Distribution, Metabolism, and Excretion) properties and increases the rate of drug approval and acceptance.

\*Context - Unique discussions on various drug discovery teams and the role of the chemist on those teams -- Promotes the understanding of these expanding roles and responsibilities and how to maximize the effective contributions of each matrix team member.

\*Real-world learning - There are hands-on exercises, with extensive answers, utilizing real data on structure activity relationships; utilization of pharmacological principles to make general statements about how changes in structure lead to changes in drug activity. + hands on exercises with extensive

answers on Pharmacokinetics -- Strengthens practical application and understanding of core concepts and principles.

\*Study sections are organized with ASPET (American Society for Pharmacology and Experimental Therapeutics) and other international organizations -- Ensures that learning follows professional industry standards.

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## **A Pharmacology Primer: Theory, Application and Methods By Terry Kenakin Bibliography**

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### Editorial Review

#### Review

"This book is an excellent introduction to pharmacological theory. I wish I had a copy to study for my PhD candidacy examination! The book follows a very logical, step-by-step approach to describe pharmacological theory. I loved the quotes at each chapter's heading. It is always nice to look at the Human aspects & philosophy of scientific endeavor.

This book should be required reading for biomedical sciences students in general, but specially for pharmacology students."

Review from The Science Advisory Board (orpgan)

#### From the Back Cover

Designed for scientists who need to know the basics, **A Pharmacology Primer** provides a complete overview -- from the study of dose-response relationships and interpretation of tissue responses to the mechanisms by which drugs can elicit and inhibit cellular function. Terry Kenakin has drawn on his valuable experience as a research pharmacologist to put together this indispensable resource on the theories, principles, and applications of pharmacology.

Each well-organized chapter guides readers through levels of increasing detail -- beginning with general concepts before moving on to methods used to estimate drug parameters, and then finishing with quantitative derivations of models and methods.

Important topics include: Drug Receptor Theory; Drug Antagonism; The Drug Discovery Process; Pharmacological Assay Formats; Interpretation of Drug Phenotypical Behavior; and Statistics & Experimental Design.

**A Pharmacology Primer** is stocked with helpful tools that insure a broad level of comprehension:

#### KEY FEATURES:

- \* Derivations of all formulae in every chapter
- \* Step-by-step guides for the standard methods of measuring drug activity
- \* Scores of full-color illustrations
- \* Bulleted lists of each section's key points
- \* Comprehensive glossary of pharmacological terms

#### About the Author

By Terry Kenakin

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**Deborah Brantley:**

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