



## **Drug Discovery and Development, Drug Development (Volume 2)**

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**From first principles to real-world applications-here is the first comprehensive guide to drug discovery and development**

Modern drug discovery and development require the collaborative efforts of specialists in a broad array of scientific, technical, and business disciplines-from biochemistry to molecular biology, organic chemistry to medicinal chemistry, pharmacology to marketing. Yet surprisingly, until now, there were no authoritative references offering a complete, fully integrated picture of the process.

The only comprehensive guide of its kind, this groundbreaking two-volume resource provides an overview of the entire sequence of operations involved in drug discovery and development-from initial conceptualization to commercialization to clinicians and medical practitioners.

**Volume 1: Drug Discovery** describes all the steps in the discovery process, including conceptualizing a drug, creating a library of candidates for testing, screening candidates for in vitro and in vivo activity, conducting and analyzing the results of clinical trials, and modifying a drug as necessary.

**Volume 2: Drug Development** delves into the nitty-gritty details of optimizing the synthetic route, drug manufacturing, outsourcing, and marketing-including drug coloring and delivery methods.

Featuring contributions from a world-class team of experts, *Drug Discovery and Development*:

- Features fascinating case studies, including the discovery and development of erythromycin analogs, Tagamet, and Ultiva (remifentanyl)
- Discusses the discovery of medications for bacterial infections, Parkinson's disease, psoriasis, peptic ulcers, atopic dermatitis, asthma, and cancer
- Includes chapters on combinatorial chemistry, molecular biology-based drug discovery, genomics, and chemogenomics

*Drug Discovery and Development* is an indispensable working resource for industrial chemists, biologists, biochemists, and executives who work in the pharmaceutical industry.

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