DESCRIPTION

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 broadarray 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 (remifentanil)
* 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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**ABOUT THE AUTHOR**

**Mukund S. Chorghade, PHD,** is President of Chorghade Enterprises, Inc., a firm based in Natick, Massachusetts that provides consultations to major pharmaceutical companies on collaborations with worldwide academic, government, and industrial laboratories; European technology-based companies; process reengineering; and project management of technology transfer.

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