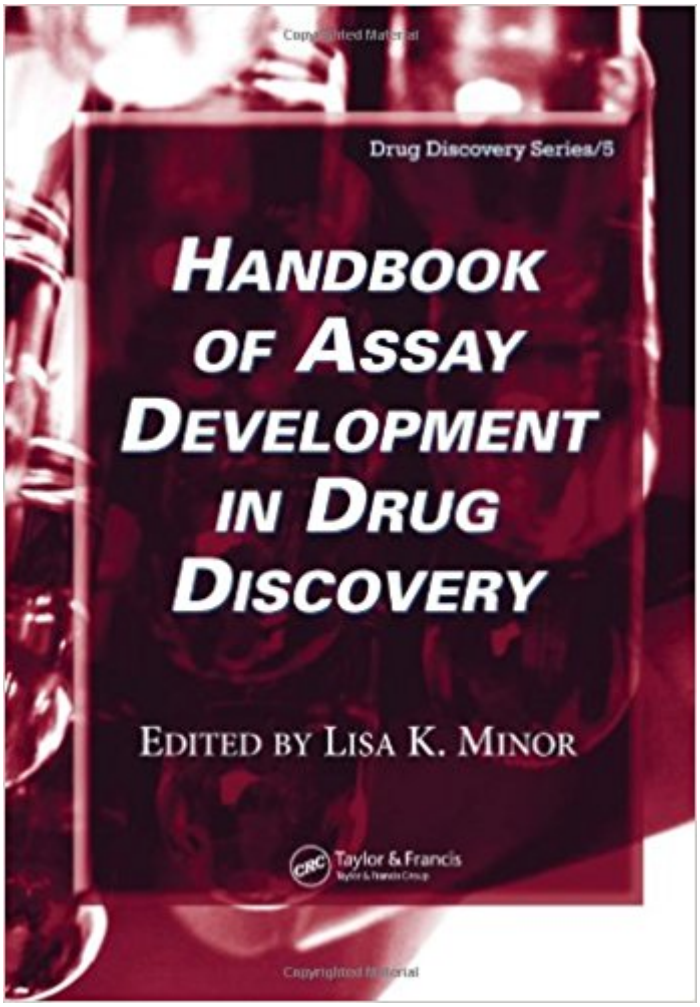
# Handbook Of Assay Development In Drug Discovery (Drug Discovery Series)



## Synopsis

The need to screen targets faster and more efficiently, coupled with advances in parallel and multiplex chemical synthesis, has contributed to the increasing use of multiwell assays for drug discovery. The Handbook of Assay Development in Drug Discovery is a reference that describes the complete armament of tools currently available for performing various assay techniques. Featuring contributions from assay developers in the pharmaceutical and vendor communities, the book presents descriptions of methods, laboratory guidelines and protocols used to perform such methods, specific examples of each assay system, and troubleshooting tools. The handbook describes biochemical assay classes as well as non-class specific assay development for cell-based assays. It covers a wide range of target classesÃ¢â ¬â ¢including kinases, proteases, nuclear receptors, and GPCRsÃ¢â ¬â ¢and describes currently employed methods and assay types, such as radioligand binding assays, image analysis assays, enzyme fragment complementation, and bioluminescent and fluorescent-based assays. Designed as a guide to running an assay from start to finish, the Handbook of Assay Development in Drug Discovery is an ideal bench top companion for discovery researchers, laboratory managers, academics, and other scientists involved in drug discovery screening, lead profiling, therapeutic target evaluation, and assay development and implementation in the pharmaceutical and biotechnology industries. Daniel E. Levy, editor of the Drug Discovery Series, is the founder of DEL BioPharma, a consulting service for drug discovery programs. He also maintains a blog that explores organic chemistry.

## Book Information

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## Customer Reviews

To be as advanced as possible, Dr. Minor has had individual chapters written by experts from equipment vendors (GE, PerkinElmer); pharmaceutical companies (J&J, Merck, Lilly), government (NIH) and more. These individual chapters describe in practical terms what these organizations have developed. -Books-On-Line

This authors of this book represent a who's who of the industry. To be as advanced as possible, Dr. Minor has had individual chapters written by experts from equipment vendors (GE, PerkinElmer); pharmaceutical companies (J&J, Merck, Lilly), government (NIH) and more. These individual chapters describe in practical terms what these organizations have developed.The book is meant as a general guidebook that one will take to the workbench. It includes descriptions of methods, exact protocols used to perform such methods, and troubleshooting tools. These techniques have been led by the need to screen targets more rapidly and with more efficiency than in previous years and by advances in chemistry allowing parallel or multiplex chemical synthesis to provide more compounds for screening.The book should be of interest to those in discovery research as well as those in the academic world who wish to know what has become available in recent years.

Drug Discovery and Development) Cancer Chemoprevention: Volume 1: Promising Cancer Chemopreventive Agents (Cancer Drug Discovery and Development) (v. 1) Tumor Targeting in Cancer Therapy (Cancer Drug Discovery and Development) Case Studies in Modern Drug Discovery and Development