Molecular pathology in drug discovery and development

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Abstrak

Molecular pathology offers tools and techniques that can greatly enhance the drug discovery and development process, helping to make the promises of personalized medicine a reality. Molecular Pathology in Drug Discovery and Development provides an unmatched guide to this cutting-edge discipline and its applications to pharmaceutical science.

With contributions from leading lights in drug discovery, drug development, and molecular pathology balanced by a consistent editorial approach, this reference offers both an overview of molecular pathology and a close look at the methods as they are applied to the process of drug discovery and development. Presented as steps in the drug development process, the coverage includes the use of molecular pathology to :

Identify and validate new drug candidates
Enhance transcriptional profiling to better find and validate biomarkers
Assess toxicology
Employ toxicogenomics to identify genes relevant to the safety of compounds
Identify correct doses for different drugs
Identify patients for treatment
Develop molecular therapies
Further the new techniques of Immunohistochemistry and Immunofluorescence

With many tests and treatments already working today, drug research and development using molecular pathology has shown itself an extremely fruitful area. Molecular pathology in drug Discovery and development gives practitioners an up-to-date resource on this highly active discipline and its role in furthering pharmaceutical research.