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Review Article

Modern Trends of Drug Discovery in Pharmaceutical Chemistry

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Abstract

Pharmaceutical chemistry is used to the development and analysis of therapeutic compounds and it includes drug design, drug synthesis, and the assay of drug efficacy as well as drug safety. Drug discovery is the key of pharmaceutical chemistry. The drug discovery process involves all the stages of drug development, from targeting a disease or medical condition to toxicity studies in animals, or even, by some definitions, testing the drug on human subjects. The field of pharmaceutical chemistry is dissimilar and involves many areas of skill. Natural-product and analytical chemists separate and identify active components from plant and other natural sources. Theoretical chemists build molecular models of existing drugs to analyze their properties. These computational studies help medicinal chemists and bioengineers design and manufacture compounds with increased biological activity. Pharmaceutical chemists analyze the bioactivity of drugs and drug metabolites. Toxicologists evaluate drug safety and potential adverse effects of drug therapy. When a drug has been approved for human studies, clinicians and physicians monitor patients' response to treatment with the new drug. The impact of pharmaceutical chemistry on the normal human life span and on the quality of life enjoyed by most people is hard to overestimate.

Keywords: Drug Design, Drug Synthesis, Assay of Drug Efficacy and Drug

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