



Abstract

Traditional drug discovery and improvement includes quite a few degrees for the discovery of a new drug

The labyrinthine journey from a promising molecular compound to a market-ready pharmaceutical drug is one riddled with complexity, risk, and exorbitant costs. Traditionally, the process of developing a novel medication involves extensive research, rigorous testing, and protracted clinical trials, taking more than a decade to navigate. The financial investments required for such an odyssey are staggering, often reaching billions of dollars, and the failure rate remains disappointingly high [1,2]. However, in recent years, a ray of hope has emerged in the form of drug repurposing—a pragmatic strategy that is gaining recognition as a potent tool to expedite the drug discovery process. This innovative approach entails reimagining existing drugs, previously approved for specific therapeutic uses, and unveiling their potential in addressing entirely different medical conditions. In essence, drug repurposing holds the promise of reducing development timelines, curbing costs, and mitigating risks, while opening new avenues to combat a spectrum of diseases. This article delves into the transformative world of drug repurposing, elucidating its principles, extolling its merits, and unveiling real-world triumphs of repurposed drugs. In doing so, we will uncover the undeniable potential of this approach to revolutionize the field of pharmaceutical research and bring hope to countless patients waiting for better treatments. Drug repurposing involves finding new therapeutic uses for existing drugs, which can significantly reduce the time, cost, and risks associated with drug development. This article explores the concept of drug repurposing, its advantages, and real-world examples of successful repurposed drugs [3,4].

Drug repurposing is the process of identifying and developing new medical applications for existing drugs that have already been approved for other indications. Rather than starting from scratch, researchers look for promising existing drugs that may be effective in treating different diseases or conditions. This approach leverages the vast body of knowledge about these drugs, including their safety profiles and mechanisms of action, and repurposes them for new uses. Here's how the process typically works.

1. Researchers select a drug that has already been approved for another indication. (Published: 31-Oct-2023, DOI: 10.4177/jpet.10001) Citation: Muth V (2023) Drug Repurposing: A Pragmatic Strategy to Expedite the Drug Discovery Process. *J Pharmacokinet Exp Ther* 7:5

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