

## Description

**Unlocking Hidden Potentials** Drug repurposing, also known as drug repositioning or drug reprofiling, involves identifying novel therapeutic uses for approved drugs or investigational compounds beyond their original indications. Unlike traditional drug discovery, which often entails lengthy and costly processes of target identification, lead optimization, and clinical testing, drug repurposing offers a streamlined approach by leveraging existing safety and pharmacokinetic data to expedite clinical translation. The rationale behind drug repurposing lies in the pleiotropic effects of drugs, where a single compound may exert multiple biological activities beyond its primary target. By systematically screening existing drug libraries against diverse disease models, researchers can uncover unexpected therapeutic potentials and repurpose drugs for indications ranging from