

Special Issue

Drug Repurposing: Strengthening Outcomes of Existing Pharmaceuticals to Shift Emerging Health Challenges

Message from the Guest Editors

Drug repurposing is an innovative and increasingly successful approach to identify new therapeutic uses for approved or investigational drugs. This strategy is supported by the shared biological mechanisms underlying many diseases and the concept of pleiotropic drug action. Among its key advantages are a reduced risk of failure—owing to established safety and efficacy in preclinical models and humans—and a significant shortening of the overall development timeline. Drug repurposing plays a particularly important role during public health crises, where rapid access to effective treatments is critical. Moreover, the search for new indications often leads to the discovery of novel drug targets or signaling pathways, thereby advancing our understanding of disease biology. This Special Issue aims to highlight both the innovative and practical dimensions of drug repurposing while also exploring its intersections with drug regulation and pharmacological research. We welcome original research articles, as well as comprehensive reviews, that contribute to advancing this dynamic field.

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