

Tentative Outline

Special Thematic Issue for the journal “Recent Advances in Drug Delivery and Formulation”

Title of the Thematic Issue: Art of Drug Repurposing: Current Trends in the labeling of shelved medicines with a new clinical indication.

Guest Editor Name: *Dr Noushad Javed*

- **Scope of the Thematic Issue:**

With the emergence of new technology for drug discovery as well as advancements in different designing/fabrication techniques, researchers nowadays can integrate innovative approaches to address most of the therapeutic and industrial challenges related to drugs.

Apart from the discovery of new diseases and the emergence of their highly mutant variants; some additional issues such as inadequate efficacy of many of such drugs as well as their inappropriate dose regimen, medical fraternity and scientists are facing an immense threat of drug-resistance disorders, along with reporting of higher severity and lethality.

So, there is an urgent need for clinically effective therapeutics in those populations but the translation of a newly discovered and conceptualized drug molecule from bench to shelf are being considered a very costlier, time-consuming as well as rigorous task, owing to strict regulatory compliances, ethical considerations, and unpredictable incidences of adverse effects during different phases of clinical trials.

In parallel to this, fortunately now we have a large set of approved medicines as well as their dataset in terms of direct targets and crosslinking mechanisms. So, in recent decades interests are emerging to look back at shelved drugs and update their profile with the addition of some new indications. In absence of any effective medicine, such repurposing practices nowadays become an integral part of the clinicians to make a choice on drug selections.

In the current issue, we have aimed to implement a judicious and comprehensive strategy to discuss novel approaches which are being used to repurpose shelved drugs with a new indication in the labels, the significance of controlled drug delivery systems for optimal clinical performances, and their suitability for industrial scale-ups.

Keywords:

Repositioning, Drug discovery, Herbal drugs, Adverse effects, Drug resistance, drug delivery systems, Formulation, Nanotechnology, Patents

Sub-topics:

- Drug resistance and Mutations
- Drug discovery and regulatory challenges
- Repositioning approaches
- Crosslinking mechanism
- Targeted drug delivery approaches
- In-silico tools
- Simulation

Tentative titles of the articles:

- Repurposing of Indian traditions herbs in Hypoxia
- Emerging Trends in the repurposing of drugs in drug resistance clinical infections
- Advancement in Lipid-based delivery of repurposed drugs for the treatment of viral disorders
- Repositioning of shelved medicines against the bacterial biofilm incidences: Trends and Success
- Techniques in Targeted drug delivery for repurposed drugs: Challenges and Scopes

Schedule:

- Thematic issue submission deadline: 15th Nov. 2022

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