

## Special Issue

# Biorhythm-Based Drug Design and Development

### Message from the Guest Editor

Biorhythm-directed drug design and development is a cutting-edge scientific field that combines biorhythmology, pharmacology, and bioinformatics. Biorhythm-Based Drug Design and Development is an innovative approach that leverages the body's intrinsic circadian rhythms to optimize drug efficacy and safety. This field delves into the molecular dynamics of how cells and tissues respond to drugs at different times of the day. By aligning drug administration with the body's peak metabolic activity, researchers aim to enhance therapeutic outcomes and minimize adverse effects. The strategy is particularly relevant for conditions like cardiovascular diseases, diabetes, and sleep disorders, which are closely tied to circadian cycles. For instance, timed-release formulations can be engineered to synchronize with the body's natural highs in metabolic processes, thereby maximizing drug impact. This molecular-centric strategy also contributes to precision medicine, tailoring treatment to individual circadian variations for personalized healthcare solutions.

### Guest Editor

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### Deadline for manuscript submissions

closed (20 December 2024)



## International Journal of Molecular Sciences

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Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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*International Journal of  
Molecular Sciences*  
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