Joint Topical Collection
Predictive Toxicology

Message from the Collection Editor

In this Topical Collection, we focus on exploring the relationship between the toxicity of xenobiotics and their chemical structures, disturbed cellular, and molecular pathways by the application of artificial intelligent methods to improve the prediction of toxicity risk. In addition, we especially encourage submissions on applying deep learning techniques to process datasets from high-dimensional gene expression, image and high-throughput screening, and chemical structures.

Keywords

- Predictive toxicology
- Artificial intelligence
- Big data
- Machine learning
- Deep learning
- Toxicogenomics
- High throughput screening
- Image analysis
- Chemical structure

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