



Machine Learning in Small-Molecule Drug Discovery 2.0

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Message from the Guest Editors

Dear Colleagues,

Machine learning has evolved as a key technology in small-molecule drug discovery. A rich body of literature documents the capacity of machine learning approaches to design and identify compounds with desirable properties.

This Special Issue seeks original research articles and reviews that focus on all aspects of machine learning relevant to small-molecule drug discovery. Scientists are particularly encouraged to submit contributions on the development and application of machine learning methods for the design of bioactive small molecules with desirable chemical and pharmacological properties, the prediction of the macromolecular target(s) of compounds, and the assessment and optimization of ADME properties, safety profiles, and synthetic accessibility. Further topics of high interest include automation in drug design, integrated models, machine learning in drug repurposing and natural products research, virtual screening, the performance of methods as a function of the quantity and quality of the training data, concepts of the applicability domain, and benchmarking.





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Message from the Editor-in-Chief

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