



Applications of Artificial Intelligence in Pharmaceuticals

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Message from the Guest Editor

Nowadays, artificial intelligence (AI)/machine learning (ML) tools are becoming more popular in the pharmaceutical sciences. The range of applications is vast and constantly growing. AI/ML is supposed to transform pharmaceutical manufacturing towards Industry 4.0. Therefore, we call for publications covering every angle of AI/ML application in pharmaceutical sciences. From an industrial perspective, this could cover various phases of the product life-cycle: from early discovery, through preclinical and clinical development, to the manufacturing and postmarketing phase. On the pure scientific ground, there might be pharmaceutical applications involving predictive modeling (regression, classification), exploratory analyses and data-mining, pattern recognition and any other possible data science approaches to pharmaceutical science, such as natural language processing (NLP) for automated data harvesting from pharmaceutical literature. Potential topics of this Special Issue include but are not limited to:

- pharmaceutical sciences
- quality by design
- model-informed drug development
- artificial intelligence
- machine learning
- data science





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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