

## Special Issue

# Advances in the Use of Machine Learning for Personalized Medicine

### Message from the Guest Editor

The field of personalized medicine has been revolutionized by recent advancements in machine learning (ML), particularly with the emergence of large language models (LLMs) and other sophisticated AI technologies. These innovations are transforming healthcare decision-making, treatment planning, and patient care across various medical specialties. Historically, personalized medicine has evolved from a one-size-fits-all approach to increasingly tailored treatments based on individual patient characteristics. The integration of ML algorithms has accelerated this progression, enabling the analysis of vast and complex datasets to derive actionable insights for patient care. This Special Issue aims to explore cutting-edge ML applications in personalized medicine, with a particular focus on recent developments such as the use of LLMs in clinical decision support, AI-driven diagnostic tools, and predictive analytics for treatment optimization. We seek to highlight innovative research that demonstrates the potential of ML to enhance diagnostic accuracy, treatment efficacy, and patient outcomes.

### Guest Editor

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## About the Journal

### Message from the Editor-in-Chief

*Journal of Personalized Medicine (JPM)*, ISSN 2075-4426) is an international, open access journal aimed at bringing all aspects of personalized medicine to one platform. *JPM* publishes cutting edge, innovative preclinical and translational scientific research and technologies related to personalized medicine (e.g., precision medicine, pharmacogenomics/proteomics, systems biology, 'omics association analysis). *JPM* is covered in Scopus, the Science Citation Index Expanded (SCIE), PubMed, PMC, Embase, and other databases.

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