

Special Issue

Advances in Physiologically Based Pharmacokinetics

Message from the Guest Editors

Personalized medicine is a transformative approach in healthcare that tailors medical decisions, treatments, and prevention strategies to the unique genetic, environmental, and lifestyle characteristics of each individual patient. By leveraging advances in genomics, pharmacokinetics, biotechnology, and data analytics, personalized medicine moves away from the traditional "one-size-fits-all" model, enabling doctors to predict disease risk, select the most effective therapies, and minimize side effects based on a person's specific genetic profile and health data.

In this context, physiologically based modeling, leveraging systems biology principles, has emerged as a useful tool to advance personalized medicine, mainly by informing precision dosing strategies.

This Special Issue will focus on advances in physiologically and pharmacokinetics-based modeling for precision dosing. We are soliciting innovative papers integrating cutting-edge technologies like machine learning, patient-derived organoids, microphysiological systems, and organism- and organ-level digital twins to inform mechanistic modeling (like PBPK and QSP) for personalized medicine contexts of use.

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2025).