

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 is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on “omics”-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 25 days after submission; acceptance to publication is undertaken in 5.8 days (median values for papers published in this journal in the second half of 2025).