

Special Issue

Personalized Medicine in Orthopedics and Traumatology: Progress and Challenges

Message from the Guest Editors

Personalized medicine is revolutionizing the landscape of orthopedics and traumatology by offering patient-specific approaches that optimize diagnosis, treatment, and recovery. This paradigm shift integrates genetic, biomolecular, biomechanical, and clinical data to tailor interventions to individual needs, thereby improving outcomes and reducing complications. In orthopedics and trauma care, where variability in patient anatomy, injury mechanisms, and healing responses is significant, the potential of personalized strategies is especially promising. This Special Issue explores the latest advancements, technologies, and methodologies driving personalized care in musculoskeletal health. It covers areas such as patient-specific implants and surgical planning, AI-driven diagnostic tools, biomarker-guided therapies, regenerative medicine, and precision rehabilitation. We invite original research, reviews, and case studies that highlight innovative solutions and critical evaluations of the current state of personalized medicine in orthopedics and traumatology.

Guest Editors

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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).