

Special Issue

Cutting-Edge Innovations in Hip and Knee Joint Replacement

Message from the Guest Editors

Over the past two decades, primary and revision hip and knee replacement surgeries have achieved impressive success rates. However, it is essential to acknowledge that a significant number of patients do not fully benefit from these procedures. In response, the field has seen remarkable innovations designed to enhance outcomes and patient satisfaction. Advances such as enhanced preoperative planning technologies, robot-assisted surgery, patient-specific instrumentation (PSI), custom-made/personalized implants, and the integration of mixed/augmented reality and artificial intelligence (AI) during surgery are being developed to reduce failure rates and improve clinical outcomes. Despite these promising innovations, the greatest challenge remains: none of these advancements have consistently demonstrated a significant improvement in patient satisfaction or reduced failure rates. Our Special Issue will focus on the most prevalent trends in primary and revision hip and knee replacements, evaluating future solutions and the impact of recent technological advancements. We invite you to contribute an original article as well as a review paper to our Special Issue.

Guest Editors

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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).