Special Issue

Emerging Diagnostic Technologies in Orthopedics: Advancing Personalized Implant Design and Therapeutics

Message from the Guest Editor

We are pleased to announce this Special Issue of Diagnostics, focusing on the pivotal role of diagnostic breakthroughs in the evolution of personalized orthopedic implants. This Special Issue will highlight cutting-edge advances in medical imaging, computational modeling, biomechanical simulation, and intraoperative monitoring that are transforming the design, placement, and long-term management of custom implants. We welcome original research and review articles that address how innovative diagnostic technologies-such as high-resolution CT/MRI, Alassisted planning software, digital twin technology, and wearable sensors for postoperative monitoring-are enhancing the precision of implant customization, improving surgical outcomes, and facilitating rehabilitation in orthopedic practice. Contributions should emphasize diagnostic methodologies, prognostic tools, and clinical validations that support implant longevity, patient function, and personalized therapeutic strategies.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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