

Special Issue

Transformative Technologies in Liver Transplantation

Message from the Guest Editors

Organ transplantation is undergoing a significant transformation, driven by the rapid advancement of innovative technologies aimed at improving both short- and long-term outcomes. From organ preservation and allocation to surgical planning, post-operative monitoring, and immunomodulation, emerging tools are redefining the entire transplant care continuum.

Technologies such as artificial intelligence, machine perfusion, 3D printing, wearable sensors, gene editing, and telemedicine are opening new frontiers in transplant medicine. These developments not only enhance the precision and safety of surgical procedures but also enable more personalized and predictive approaches to patient management. In this Special Issue, leading researchers and clinicians will present state-of-the-art technologies applied across different domains of transplantation. The focus will be on how these innovations are reshaping current practices, improving organ utilization, and enabling novel therapeutic strategies. This issue aims to highlight the clinical relevance, translational potential, and multidisciplinary impact of transformative technologies in transplantation.

Guest Editors

Dr. Davide Ghinolfi

Division of Hepatic Surgery and Liver Transplantation, University of Pisa Hospital, Pisa, Italy

Dr. Lorenzo Petagna

Division of Hepatic Surgery and Liver Transplantation, Azienda Ospedaliera Universitaria Pisana, 56124 Pisa, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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