

Special Issue

New Progress in Kidney Transplantation and Surgery

Message from the Guest Editor

This Special Issue highlights recent advancements and novel strategies addressing key challenges in kidney transplantation, offering a comprehensive review of cutting-edge research, clinical, and surgical innovations with the potential to transform the field. Our focus spans several key areas, including innovative surgical techniques used to optimize organ utilization, as well as recent advances in organ preservation and perfusion. We also explore the role of minimally invasive and robotic-assisted procedures, which improve recovery and reduce complications. Additionally, we assess strategies such as donor exchange programs to expand the donor pool and increase access to transplantation, alongside the integration of donation after circulatory death (DCD) protocols and the associated challenges. This Special Issue also delves into the application of artificial intelligence and machine learning in post-transplant care. We examine breakthroughs in genomics and biomarkers for early rejection detection, personalized treatment strategies, and the monitoring of graft function and immunocompetence.

Guest Editor

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