

Special Issue

Clinical Advances in Ischemia Reperfusion Injury

Message from the Guest Editor

Exposure to ischemia and reperfusion is an inherent component of solid-organ transplantation and is axiomatically linked to graft damage. Since organ shortage remains the cardinal issue in transplant medicine, there is an urgent and unmet need to expand the accessible donor pool, especially by utilizing organs from extended-criteria donors. However, these organs are critically affected by ischemia reperfusion injury (IRI). Recent landmark studies have demonstrated the potential of hypothermic and normothermic machine perfusion to ameliorate IRI. Moreover, emerging real-time imaging technologies promise to more accurately predict the severity of IRI. Additionally, modern organ-preservation solutions are under constant refinement and new therapeutic drugs are in the pipeline to block cellular pathways in IRI. On the other hand, clinical experience in utilizing marginal organs continues to grow, which will help to further identify high-risk donors and achieve good clinical outcomes for transplant patients. For this Special Issue, we welcome authors to submit papers on the clinical advance of IRI.

Guest Editor

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