



Ischemia Reperfusion Injury: A Cell Signaling Crossroads and Therapeutics

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Message from the Guest Editors

Ischemia–reperfusion injury (IRI) is inherent to surgery and organ resection and transplantation (TX). The present knowledge of underlying IRI pathophysiological mechanisms reveals a complex cell signaling crossroads that makes further therapeutic strategies difficult and justifies the in-depth investigation of the cell signaling pathways involved in IRI to prevent its adverse consequences more effectively and improve organ transplantation outcomes.

The advances in the study of IRI pathophysiology mechanisms are poor when compared to the development of immunosuppressive strategies in TX. For this reason, it is necessary to explore new insights into the molecular pathways involved in the complex pathophysiology of IRI, covering different perspectives, including different organs (heart, liver, kidney, pancreas, small intestine), with a special emphasis on the underlying mechanisms.

This Special Issue calls for original research, full reviews, and perspectives that address the progress and current knowledge on the pathophysiological mechanisms of IRI in different organs.





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Message from the Editor-in-Chief

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