

## Special Issue

# Ischemia Reperfusion Injury: A Cell Signaling Crossroads and Therapeutics

### 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.

### Guest Editors

Prof. Dr. Joan Roselló-Catafau

Prof. Dr. René Adam

Dr. Teresa Carbonell Camós

### Deadline for manuscript submissions

closed (31 January 2024)



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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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