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## Ischemia Reperfusion Injury: A Cell Signaling Crossroads and Therapeutics 2.0

Guest Editors:

**Prof. Dr. Joan Roselló-Catafau**  
Experimental Hepatic Ischemia-  
Reperfusion Unit, Institut  
d'Investigacions Biomèdiques de  
Barcelona (IIBB), Spanish  
National Research Council (CSIC),  
08036 Barcelona, Spain

**Prof. Dr. René Adam**  
Centre Hépatobiliaire, AP-PH,  
Hôpital Paul Brousse, 94800  
Paris, France

**Dr. Arnau Panisello-Roselló**  
Steatohepatitis and  
Transplantation Research Group,  
Institut d'Investigacions  
Biomèdiques August Pi i Sunyer  
(IDIBAPS), Barcelona, Catalonia,  
Spain

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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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# Special Issue



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Department of Physiology,  
Institute of Nutrition and Food  
Technology “Jose Mataix”,  
Biomedical Research Center,  
University of Granada, Avda.  
Conocimiento s/n, 18100 Armilla,  
Granada, Spain

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*International Journal of Molecular  
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MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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