

Special Issue

Positive and Negative Determinants of Ischaemic Injury—Co-Morbidities and Cardioprotection

Message from the Guest Editors

Ischaemic heart disease and associated heart attack (acute myocardial infarction, AMI), together with subsequent heart failure are the lead causes of death worldwide, presenting a profound healthcare burden. There is thus a great need for adjunctive protective therapy that can be applied prior to, with or after reperfusion to improve both short and longer term outcomes from AMI (or surgical ischaemia), and extend the effective window for reperfusion. Processes of, and outcomes from, cardiac ischaemia-reperfusion injury are influenced by multiple factors, including comorbidities, sex, age and other gene and phenotypic features. The long-running challenge of cardioprotection can only be met through consideration of these critical positive and negative determinants of outcome. This Special Issue will focus on the current understanding of the effects of comorbid conditions on myocardial ischaemia-reperfusion processes, influences on cardioprotective signalling and outcomes, and novel strategies for protecting the heart from accidental and surgical I-R.

Guest Editors

Dr. Jason Peart

School of Pharmacy and Medical Science, Griffith University, Southport, QLD 4217, Australia

Prof. Dr. John Headrick

School of Medical Science, Griffith University, Southport, QLD 4217, Australia

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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