



Redox-Dependent Regulation of Haemostasis in Health and Disease

Guest Editor:

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Message from the Guest Editor

Haemostasis is the homeostatic response of the human body to injury and bleeding. Haemostasis is typically divided into primary haemostasis, in which circulating platelets play a pivotal role, and secondary haemostasis, consisting of the activation of the coagulation cascade leading to fibrin deposition and ultimately blood clotting. In reality, these two responses are tightly entwined, with platelets promoting coagulation and coagulation activating platelets via thrombin. Canonical post-translational protein modifications regulate both platelets and coagulation, with protein phosphorylation central to platelet function and proteolytic activation of native zymogens pivotal for coagulation. In addition, a growing body of evidence suggests that oxidative post-translational modification of plasma proteins, blood cells and vascular tissues is involved in normal primary and secondary haemostasis in physiological conditions. Interestingly, oxidative stress leads to the dysregulation of protein oxidation in the circulatory system, which participates in the development of the thrombotic complications associated with human vascular diseases.





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Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of "oxidative stress" a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

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