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The Role of Redox Signaling in Kidney Physiology and Kidney Disease

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Deadline for manuscript submissions:
closed (20 November 2022)

Message from the Guest Editors

The kidney depends on redox signaling to realize its function and a considerable number of proteins are redox-sensitive. Both acute and chronic kidney disease are associated with an imbalance between antioxidants and oxidants that is in favour of the latter. The resulting state with molecular damage and/or a disturbance of the physiologic redox signaling is termed “oxidative stress”. Recent research has advanced our understanding of redox signaling in kidney disease states, but therapies targeting specific redox signaling pathways are not yet available for clinical routine. The search for therapeutic options is complicated by the inevitable requirement of efficient redox signaling as part of the physiological regulation in the kidney and in the body as a whole.

Therefore, we welcome submissions to a Special Issue entitled “The Role of Redox Signaling in Kidney Physiology and Kidney Disease”, to further advance our understanding in this area. Hopefully, this will help to pave the way for new therapeutic strategies in kidney 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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