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Nrf2 in Kidney Injury and Physiology

Guest Editor:

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Message from the Guest Editor

Acute kidney injury and progressive chronic kidney disease are debilitating diseases that can eventually lead to end-stage kidney disease. The nuclear factor 2 erythroid 2 (NRF2) transcription factor is expressed in the kidney and upregulates cellular mechanisms involved in protection. Prior studies have demonstrated that NRF2 activity or enhancement protects against AKI, as well as AKI-to-CKD progression and interstitial fibrosis, suggesting a beneficial effect in the tubulointerstitial compartment of the kidney. However, the role of NRF2 in proteinuric glomerular diseases remains controversial. Some studies show that NRF2 reduces injury, while other studies demonstrate paradoxical increases in proteinuria and injury with NRF2 activation. Additional research is required to determine the role of NRF2 in kidney physiology and disease, as well as the exact mechanisms of action for its effects. This Special Issue will highlight research that improves our understanding of NRF2 in the kidney.

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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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