Special Issue

Nrf2: A Critical Regulator of the Innate Immune Response

Message from the Guest Editor

The transcription factor Nrf2 is a well-known for its role in the anti-oxidant response, where it regulates an array of antioxidant and detoxifying genes. More recently, the activation of Nrf2 was demonstrated to occur in response to infection and to the stimulation of cellular innate receptors with pathogen-associated molecular patterns such as LPS. The activation of Nrf2 in this context co-occurs with metabolic reprogramming in macrophages and the subsequent increases in oxidative stress, as well as in the abundance of distinct metabolites with electrophilic properties. The potential of such metabolites to activate Nrf2 has drawn a great deal of attention, and derivatives of the electrophilic metabolite itaconate have now been demonstrated to directly activate Nrf2. Further, emerging evidence now suggests that Nrf2 occupies a central and hitherto unappreciated position as a regulator of innate immune responses in response to oxidative or metabolic stress. The aim of this Special Issue is to advance our understanding of the role Nrf2 plays in innate immune responses.

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About the Journal

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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