



Antioxidant Defence System during Arthritis and Osteoarthritis

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Message from the Guest Editor

Oxidative stress is an important factor in chronic autoimmune inflammatory diseases, such as rheumatoid arthritis (RA). It is defined as a disequilibrium inflicted by overproduction of reactive oxygen and nitrogen species, which are associated with the reduced antioxidant capacity of the organism. These radicals often result in metabolic dysfunction and react with macromolecules in their structures, thus altering their functions. Under physiological conditions, the inactivation of these radicals is materialised by enzymatic and non-enzymatic defence systems and antioxidants. This Special Issue will mainly focus on the endogenous enzymatic antioxidant defence system, including glutathione peroxidases, superoxide dismutase, catalase and thioredoxin, which have altered functions in patients with RA. In addition, treatments aimed to restore the redox balance in organisms will be included in the scope of this Special Issue.





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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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