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Effect of Dietary Antioxidants in Chronic Disease Prevention

Guest Editor:

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Message from the Guest Editor

It is well accepted that a high intake of dietary antioxidants is associated with a decreased chronic disease risk. According to in vitro and in vivo studies, dietary phytochemicals possess therapeutic potential on chronic diseases by modulating different signaling pathways and/or reshaping the gut microbiota. However, the molecular mechanisms behind these activities are not quite clear yet, and further studies are needed to discover the cross-connection in signaling pathway networks between oxidative stress and disease prevention.

In this Special Issue, we will collect and summarize the existing knowledge on disease prevention effects (including anti-tumor activity, anti-obesity, anti-diabetes, anti-inflammatory activity, neuroprotective activity, etc.) of dietary antioxidants. Collections may cover in vitro models, animal models, and human studies. Finally, the underlying molecular mechanisms (such as PI3K/Akt/mTOR, MAPK and NF-κB, etc.) of how these dietary antioxidants regulate their health-promoting effects will be discussed. s

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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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