



Vitamins, Nutritional Supplements, Antioxidant Therapy, and Modulators of Inflammation as Therapeutic Interventions

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Message from the Guest Editors

Dear Colleagues,

Vitamins are essential micronutrients, with a well-established role in inflammation and metabolism. In some cases, the beneficial effects of vitamins stem from their antioxidant capacity and can be substituted by antioxidant pharmacological treatments. Additionally, numerous natural compounds have these properties and are now explored as immune modulators. Indeed, targeting oxidative stress is proposed for the treatment or management of major pathological disease states, from diabetes to obesity and from hypertension to cachexia. The most innovative approaches in medicine, such as multimodal interventions and tailored medicine, currently include nutritional supplementation to buffer the redox status of the body or to naturally trigger beneficial signaling pathways to control inflammation and metabolic alterations. Nonetheless, limitations still exist and further knowledge on the molecular mechanisms underlying the effects of nutritional and antioxidant supplementation is needed to expand the margins of intervention.





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