



## Total Antioxidant Capacity in Health and Disease

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Deadline for manuscript  
submissions:

**closed (15 December 2021)**

### Message from the Guest Editors

Total antioxidant capacity (TAC), also known as non-enzymatic total antioxidant capacity (NEAC), encompasses the synergistic interaction effects of all antioxidants in a given matrix (diet-foods or body fluids). NEAC is therefore regarded as a global measure of non-enzymatic antioxidant efficiency. Published values of NEAC in food allow for the quantification of dietary NEAC. The potential beneficial effects that antioxidants have in the prevention of chronic diseases have been studied in depth over the last few decades, but less attention has been devoted to the study of NEAC in the diet and in health and disease. This Special Issue examines the health effects of dietary antioxidants and overall antioxidant capacity on human health, considering antioxidant functions, effects on oxidative stress and inflammation, anti and pro-oxidant factors in the diet and interactions thereof, the antioxidant potential of dietary patterns, nutrient antioxidants, and the contribution of dietary patterns and lifestyle factors to the body's oxidative balance.





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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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