



Oxidative Medicine and Cellular Longevity

Special Issue on

Oxidative Stress and Cardiovascular Aging: The Role of Diet

CALL FOR PAPERS

Aging is an unavoidable, complex, and multifactorial physiological process leading to a progressive decline of multiple organs and systems, disability, and eventually death. Cardiovascular diseases are the most common cause of death among the elderly patients in the developed countries; moreover, aging leads the cardiovascular system to develop alterations even in the absence of traditional risk factors. The increase in average life expectancy, associated with a greater risk for chronic diseases and a lack of clear biological basis about aging process, has spurred interests in searching for a healthy and, possibly “disease-defying,” quality of life. Aging process is generated by multiple causes that include, but are not limited to, oxidative stress that actually is a central determinant in aging theories. Thus, the possibility to combat oxidative stress with antioxidants, which represent the main barrier to free radicals injury, appears as an exciting tool to improve cardiovascular wellbeing and health during aging process.

Lifestyle changes that have the potential to make a significant impact toward a salutary life encompass multiple measures, including appropriate levels of physical activity, healthy dietary habits, stopping smoking, and limiting alcohol intake. A diet rich in antioxidants, vitamins, minerals, and other key phytochemicals that benefit mainly the cardiovascular system can play an important role toward a healthy lifestyle, with less risk of cardiovascular diseases development.

In this special issue, we invite investigator(s) to contribute with original articles as well as review articles that will describe and help in understanding current and potential challenges about the role of diet in oxidative stress and cardiovascular aging.

Potential topics include, but are not limited to:

- ▶ The role of oxidative stress in development of age-related cardiovascular disorders and antiaging mechanisms
- ▶ Antioxidants and human longevity
- ▶ The interactions between antioxidant dietary agents and commonly used cardiovascular medication in the elderly
- ▶ The use of antioxidant dietary supplements in the elderly
- ▶ Dietary patterns and antioxidant phytochemicals that retard the progression of age-related cardiovascular disorders and describe the mechanism(s) that underline the biological effect of a healthy diet
- ▶ Recent advance in nutrition therapy at cardiovascular level

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/omcl/osard/>.

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