Oxidative Medicine and Cellular Longevity

Special Issue on

Pathophysiological Implications of Ethanol-Induced Oxidative Damage

CALL FOR PAPERS

Ethanol is a legal drug present in several drinks and other products commonly used worldwide. In this respect, ethanol has been associated with mental disorders and organic alterations. Alcohol abuse disorder is considered a mental disorder and it is involved in traffic accidents, homicides, and domestic violence cases. In addition to this, EtOH is also implicated in several organic diseases as well as in diverse forms of cancer. EtOH exerts its deletereous effects in several tissues via oxidative and nonoxidative metabolic pathways promoting free radical production and lipid peroxidation. One of the most important factors on this toxic process deals with the properties of EtOH to promote reactive oxidative species (ROS) formation with mitochondrial implication. These ROS finally react with membrane lipids producing aldehydes such as 4-hydroxynonenal and/or malondialdehyde. These products and even ROS can directly react with proteins or DNA leading to protein missfolding or transcriptional alterations. Among these EtOH-induced altered cellular responses are cell cycle alterations, cell death, or autophagy processes.

Knowing the mechanisms by which ethanol affects cells will be of general interest in view of the multiple pathophysiological implications of this chemical agent on human health.

This special issue receives scientific works dealing with the oxidative effects of ethanol on cells. Experimental *in vitro* or *in vivo* data, reviews, and clinical data are welcomed in this special issue.

Potential topics include, but are not limited to:

- EtOH-induced oxidative stress and protein alterations
- EtOH-induced autophagy and mitochondrial dynamic alterations
- Influence of EtOH on stem cell proliferation and differentiation
- Role of antioxidants on EtOH-induced alterations
- EtOH-related oxidative metabolic pathways and pathophysiology of disease: CYP2E1 and ADH
- EtOH and liver: cirrhosis, liver cancer
- Ethanol and NAD/NADH ratio, stimulation of lipogenesis

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

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Manuscript Due
Friday, 17 June 2016

First Round of Reviews
Friday, 9 September 2016

Publication Date
Friday, 4 November 2016