Aims & Scope:
Oxidative stress is known to contribute to toxicity of some therapeutic drugs and a range of toxicants, notably the food-chain contaminant cadmium, making human dietary cadmium exposure inevitable. Effective chelation therapy for cadmium is currently lacking, while use of multiple medications is not uncommon among aging populations, whose tissue cadmium levels may approach toxic levels, resulting from cumulative lifetime exposure. Evidence implicating cadmium in the development and progression of age-related chronic ailments and cancer is increasingly apparent from the U.S. population studies, known as the National Health and Nutrition Examination Survey (NHANES). The NHANES data show also the reduction of cadmium-linked toxicity by dietary intakes of anti-oxidants. This special issue thus aims to stimulate widely scientific debate/discussion on the issue of anti-oxidants, and to review the use of alternative anti-oxidant therapies, a topic that will be of interest generally, but in particular to many Asian readers where use of these therapies is common.

Key words: Age-related functional deterioration, Anti-oxidants, Cadmium, Cumulative toxicants, Dietary exposure, Drug toxicity, Oxidative stress, Metals

Paper titles:
1. Tapping the “mighty”chondrion to find novel therapies for vascular complications in diabetes.
2. Regenerative and antioxidative mechanisms to rebalance cancer-dysregulated cell growth.
3. Metallothionein as a scavenger of free radicals – New cardioprotective therapeutic agent or initiator of tumour chemoresistance?
4. Chronic cadmium toxicity: is it a pro-oxidative problem?
5. Vascular protective effects of curcumin and tetrahydrocurcumin.
6. The antioxidant effects of Radix Astragali (Astragalus membranaceus et spp.) in protecting tissues from injury and disease.
7. Antioxidants as a potential preventive and therapeutic strategy for cadmium.

Schedule:
Manuscript submission deadline: November 2014
Peer Review Due: January 2015
Revision Due: February 2015
Notification of acceptance by the Guest Editors: March 2015
Final manuscripts due: March 2015