



The Scientific World Journal

Special Issue on  
**Toxicology and Disease/Cancer Therapy in Reactive  
Oxygen Species-Mediated Drugs and Treatments**

CALL FOR PAPERS

Many anticancer agents and/or natural products may modulate the level of reactive oxygen species (ROS) and induce or protect cellular oxidative damage. ROS has also been reported to be involved in apoptosis, autophagy, endoplasmic reticulum (ER) stress, mitochondrial dysfunction, cell migration, and invasion. Although many ROS modulating drugs affect the proliferative ability of cancer cells, they may also generate various side effects on normal cells. Accordingly, the toxicology and disease/cancer therapy in ROS-mediated drugs and treatments are still challenging.

The overall aim of this special issue is to present the recent advances in both benefit and side effects and signaling mechanisms for anticancer and disease therapeutic drugs and/or natural products based on their ROS modulation ability. Furthermore, the aim of this issue also provides the innovative reviews of the features of ROS modulation of anticancer and disease therapeutic drugs and/or natural products in cell-based studies, animal model, and clinical application.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts on exploring the ROS modulating effects and downstream signaling mechanisms for ROS-mediated drugs and/or natural products for drug chemoprevention, chemotherapy, and disease therapy, as well as the emerging pharmacogenomics issues. ROS modulating effects of drugs on noncancer diseases, antibacteria, and antiviral are also welcome.

Potential topics include, but are not limited to:

- ▶ Anticancer drugs
- ▶ Natural products
- ▶ Toxicology
- ▶ ROS
- ▶ RNS
- ▶ Signal transduction
- ▶ Apoptosis
- ▶ Autophagy
- ▶ Endoplasmic reticulum (ER) stress
- ▶ DNA damage
- ▶ DNA repair
- ▶ Bioassay
- ▶ Chemical engineering
- ▶ Antioxidant
- ▶ Chemoprevention
- ▶ Chemotherapy
- ▶ Single nucleotide polymorphism (SNP)

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**Manuscript Due**

Friday, 3 October 2014

**First Round of Reviews**

Friday, 26 December 2014

**Publication Date**

Friday, 20 February 2015

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