

## Special Issue on **Potassium Channel Modulators: Cellular Pathways and Oxidative Stress**

# CALL FOR PAPERS

Potassium channels have been implicated in many disease conditions like diabetes and hypertension. These channels are either downgraded or upgraded by several disease conditions involving vascular reactivity, oxidative stress, and cellular pathway signaling.

Evidence suggests that oxidative stress which is a consequent of imbalance between the oxidant and antioxidant systems via effects on ion channels including potassium channels can have detrimental effect on cells. Most pharmacological agents available currently target ion channels which are a very useful tool in understanding the mechanisms underlying these disease conditions and so a better way towards their management.

This issue aims at building and gathering more scientific studies and literature highlighting the association between potassium channels and oxidative stress in disease such as hypertension and diabetics, through a multidisciplinary approach.

This issue will showcase high quality original research and review articles geared towards highlighting the role of potassium and other cations in these noncommunicable diseases.

Potential topics include but are not limited to the following:

- ▶ Vascular modulation in diabetics
- ▶ Vascular reactivity and potassium channel modulation in hypertension
- ▶ Endothelial damage and endothelial dependent pathways of disease process
- ▶ Potassium channel modulators and their regulations
- ▶ Potassium channel subunits in disease presentations
- ▶ Cation and anionic dynamics, interactions, diversity, and concerns in vascular reactivity
- ▶ Role of potassium channels in cancer
- ▶ Voltage and ligand gated modulations of potassium channels
- ▶ Pharmacology and the potassium channel receptors
- ▶ Renal concerns and the potassium channel modulations
- ▶ Mitochondrial cation channels
- ▶ Altered gene expressions and the role of potassium channels
- ▶ Cellular pathways involved in oxidative stress; role of the potassium channel, and potassium

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

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Friday, 28 July 2017

### **First Round of Reviews**

Friday, 20 October 2017

### **Publication Date**

Friday, 15 December 2017