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Emerging Role of Mitochondrial Reactive Oxygen Species in Cellular Signaling

Guest Editors:

Prof. Dr. Hideyuki J. Majima
School of Allied Health Sciences, Walailak University, Nakhon Si Thammarat 80160, Thailand

Prof. Dr. Ken Itoh
Department of Stress Response Science, Center for Advanced Medical Sciences, Hirosaki University Graduate School of Medicine, 5 Zaifucho, Hirosaki 036-8562, Japan

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Message from the Guest Editors

Dear Colleagues,

Majima et al. were the first to report that reactive oxygen species (ROS) generated from mitochondria promote apoptosis (Majima et al., J Biol. Chem. 1998), while Itoh et al. described the function of the Nrf2-Keap1 intercellular signal for the first time (Itoh et al., Biochem. Biophys. Res. Commun. 1997, Itoh et al., Genes Dev. 1999). A recent study has described that ROS generated from mitochondria initiate cellular transduction in cytosol (Indo et al. Handb Exp Pharmacol. 2017). In this Special Issue, the further role of ROS and the subsequent intracellular signals, protein, and molecules' transport-change will be clarified. The aim of this Special Issue is the establishment of cellular signaling and metabolism change based on mitochondrial ROS augmentation. Thus, the Special Issue explores the physiological and pathological new function of mitochondrial ROS.

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Prof. Dr. Ken Itoh
Guest Editors

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Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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