

Special Issue

Non-coding RNAs in Human Diseases

Message from the Guest Editors

It is widely known that oxidative stress emerges from an imbalance between free radical formation and antioxidant capacity, which may lead to various pathological events. A growing body of evidence suggests that non-coding RNAs appear to play key roles in the modulation of oxidative stress, including sensing the accumulation of reactive oxygen species (ROS) or response of cells to these challenges. Although substantial progress has been achieved in understanding the mechanisms that govern the intracellular redox environment, many questions regarding how non-coding RNAs mediate different aspects of disease progression in response to oxidative stress remain unanswered. The aim of this Special Issue is to provide a leading international platform to present the most recent findings and discuss the up-to-date literature on the significance of non-coding RNAs in the regulation of redox homeostasis. Additionally, it is imperative to examine the effects of therapeutic approaches that target these non-coding RNAs on the elimination of oxidative damage in an effort to apply these findings in the future.

Guest Editors

Dr. Pei-Ling Hsieh

Department of Anatomy, School of Medicine, China Medical University, Taichung 40250, Taiwan

Prof. Dr. Cheng-Chia Yu

Institute of Oral Sciences, College of Oral Medicine, Chung Shan Medical University, Taichung 40201, Taiwan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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