

Special Issue

Regulation of the Hypoxic Response by Noncoding RNA

Message from the Guest Editor

Hypoxia activates the fast global reprogramming of gene expression in order to secure survival and to restore oxygen homeostasis. However, although the Hypoxia Inducible Factors (HIFs) have been recognized as master regulators of hypoxic response, specific disease-oriented therapeutic modulation of their activity remains very challenging. Notably, recent studies defined novel noncoding RNA-based mechanisms that provide a hypoxic response with novel regulatory circuits and thus therapeutic opportunities. MicroRNAs, long noncoding RNAs, PiRNA, and other RNA molecules can efficiently shape the course and effects of HIF activity and consequently decide the fate of hypoxic cells. This Special Issue focuses on both the biological and therapeutic role of noncoding RNA in governing cell signaling and fate under hypoxia or ischemia.

Guest Editor

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Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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