



## Regulation of the Hypoxic Response by Noncoding RNA

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### 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.





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