

Special Issue

Molecular Mechanisms and Treatments of Organ Hypoxia or Ischemia

Message from the Guest Editors

Hypoxia in organs is a result of ischemia, due to either macrovascular or microvascular circulation collapse. It is a process that occurs either abruptly and acutely or gradually and chronically. Ischemia and hypoxia occur in brain stroke, traumatic brain injury, vasospasmus after subarachnoid hemorrhage, myocardial infarction, kidneys, and the gastrointestinal system; secondary hypoxia occurs during autoimmune inflammation or sepsis. This means that tissue hypoxia is a cardinal underlying process in almost every pathology. In our Special Issue (SI), we want to stimulate an “out-of-box” scientific interchange of studies that test conceptually novel molecular mechanisms and approaches for the detection and treatment of tissue hypoxia. We welcome the interdisciplinary crossing of scientific borders, e.g., by examining how a molecular pathway may be comparatively similar or different in a hypoxic brain, heart, kidney, or inflamed organ and why. Among others, we aim to collect papers with well-supported, “high-risk, high-innovative” ideas in the field of tissue hypoxia.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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