

Special Issue

Anemia and Iron Metabolism: Laboratory Diagnosis, Novel Biomarkers and Environmental Influence

Message from the Guest Editors

Anemia is one of the most common signs found in clinical practice. In a vast majority of the cases, anemia is not caused by a hematology specific disorder, but is secondary to diverse systemic diseases, including the anemia of chronic diseases.

Normal iron metabolism is crucial for the development of the hemoglobin molecule. Iron metabolism abnormalities can cause iron deficiency or iron overload. The molecules that are known to be crucial in maintaining normal iron metabolism are ferroportin and hemojuvelin that control iron absorption, transferrin, iron transporters, soluble transferrin receptors that allow iron incorporation into the cells, ferritin, the main molecule that allows iron storage, hepcidin, a regulator of iron availability and erythroferrone that regulate hepcidin activity. The focus of this Special Issue is research regarding the activity of all those molecules and others that can be the goal of future research. We will welcome laboratory and basic research studies, or reviews that provide significant new information on the pathophysiology of anemia and iron metabolism and possible future treatment approaches.

Guest Editors

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Message from the Editor-in-Chief

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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