

Special Issue

New Perspectives on Dietary Iron and Human Health

Message from the Guest Editor

In mammals, appropriate levels of dietary iron as well as its sufficient absorption at the duodenum are critical for maintaining systemic iron balance. With respect to human health, the management of iron-related disorders requires new strategies. Physiologically, iron homeostasis is tightly controlled by the hepcidin–ferroportin axis. Essentially, every form of iron disorder, resulting either due to iron deficiency or overload, is associated with the dysregulation of this axis. Recent discoveries suggest that additional pathways/mechanisms such as hypoxia-inducible factor, ferritinophagy, ferroptosis and gut microbial metabolites can be considered therapeutic targets for not only iron-related disorders, but also for a wide range of diseases involving the gastro-intestinal tract and beyond.

This Special Issue will focus on the aspects of nutritional as well as genetic aspects of iron-related pathophysiologies relevant to human health, related but not limited to, the following: a) novel approaches for treating iron-related disorders; b) the role of gut microbiota and microbial metabolites; c) ferroptosis; and d) cancers.

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Message from the Editorial Board

Nutrients is an on-line open access journal that was first published in 2009. *Nutrients* adheres to rigorous peer-review and editorial processes and publishes only high quality manuscripts that address important issues related to the impacts of nutrients on human health. The Impact Factor of *Nutrients* has risen rapidly since its establishment and it is now ranked in the first quartile of journals publishing in the field of nutrition and dietetics research.

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