

Special Issue

Heme Metabolism and Porphyrria

Message from the Guest Editors

Heme is the “pigment of life”. It is widely recognized as component of hemoglobin, which is necessary to bind oxygen in the bloodstream, but it also is an essential prosthetic group in a number of other biologically important hemoproteins. Its biosynthesis involves a tightly regulated eight-step enzymatic pathway that occurs partly in the mitochondria and partly in the cytosol. A defect in an enzyme of the pathway leads to accumulation of intermediates of heme synthesis causing a clinically significant outcome of a group of metabolic disorders called “porphyrias”. This special issue will focus on the recent advances in heme homeostasis, mitochondrial transport and cellular trafficking as well as on the progress of clinical and translational research in pathophysiology, genetic, diagnosis and treatment for the acute hepatic and erythropoietic porphyrias. Studies presenting new biomarkers of disease severity, validation of pathogenetic variants, clinical trial results and relationship with environmental and nutritional factors will also be included.

Guest Editors

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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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