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# **Unraveling Mysteries of Heme Metabolism**

Guest Editors:

Prof. Dr. Harry A. Dailey

Prof. Dr. Peter N. Meissner

Dr. Amy E. Medlock

Prof. Dr. John D. Phillips

Prof. Dr. Iqbal Hamza

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### **Message from the Guest Editors**

Heme, an iron-containing cofactor, is essential for most life forms. Heme-containing proteins are responsible for a myriad of different tasks in living organisms, being responsible for electron transfer, gas transport and sensing, diverse one-electron enzymatic reactions, and as gene regulators to list a few. The ability of the iron to change valance rapidly upon coordination with a ligand provides a diverse functionality to the array of biomolecules. most currently characterized While organisms that possess heme are capable of synthesizing their own heme, some do not, and have evolved elaborate mechanisms to obtain heme from their environment. Among mammals, defects in the heme synthesis pathway result in phenotypic disorders named porphyrias. Additionally, heme may be further metabolized to yield linear tetrapyrroles which serve diverse functions.













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### **Editors-in-Chief**

#### Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

#### Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

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