



gegründet 1808

Societas physico-medica Erlangensis

Vorstand:

Prof. Dr. med. C. Bogdan
Prof. Dr. Dr. h. c. W. Kalender, PhD
Prof. Dr.-Ing. Dr. rer. med. U. Hoppe
Prof. Dr. med. Dr. h. c. K.-H. Plattig



Die Physikalisch-Medizinische Sozietät Erlangen

lädt Sie zu folgendem Vortrag ein:

The Role of Iron in Health and Disease

Professor Prem Ponka, M.D. Ph.D.

Lady Davis Institute, Department of Physiology and Medicine, McGill University, Quebec, CANADA
E-Mail: prem.ponka@mcgill.ca

Iron, the most abundant metal on planet Earth, is an essential element of life. The human being, possessing grams of this potentially toxic metal, cannot breathe or live without it. Hemoglobin iron, which gives blood its vibrant red color, is responsible for the uptake, shuttling and release of oxygen in the human body. Iron is a critical component of many enzymes and, via its interaction with iron regulatory proteins that target iron-regulatory elements in various messenger RNAs, strongly impacts on gene expression. The amount of body iron is well regulated. Both a reduction of iron (i.e. iron-deficiency anemia) as well as an overload (i.e. hyperabsorption of dietary iron, iron-storage diseases such as hemochromatosis) have dramatic consequences and, without treatment, can lead to death. Professor Prem Ponka will give an insight into current understanding of iron metabolism and will talk about how disregulated iron homeostasis causes numerous diseases.

Prem Ponka is Professor and Staff Investigator at the Lady Davis Institute, Department of Physiology and Medicine, McGill University, Canada. Dr. Ponka obtained his MD in 1964 and his PhD (in Physiology) in 1969 from Charles University, Prague. From 1968 to 1979 he served as an Assistant Professor in the Department of Pathophysiology at Charles University. From 1979 to 1987 he was an Associate Professor, and since 1987, he has been a full Professor at McGill University. Besides erythropoiesis and the regulation of heme, Dr. Ponka's main research interests are the regulation of iron balance in the human body and cells and the diseases caused by imbalance of iron levels. Professor Ponka, who frequently reviews various international scientific journals, has published many outstanding papers in high-impact journals, his work being extensively cited in world literature. His most significant achievement is his original concept of tissue-specific heme synthesis regulation in hemoglobin synthesizing cells and the discovery of direct interorganellar transfer of iron from endosomes to mitochondria.

Mittwoch, 02. Mai 2012, 17.15 Uhr

(45 Minuten Vortrag plus Diskussion)

Veranstaltungsort:

Seminarraum des Instituts für Klinische Mikrobiologie, Immunologie und Hygiene,
Wasserturmstraße 3/5, 1. Stock

(Zugang: rückwärtiger Hörsaalzugang, siehe beiliegende Wegeskizze)

Für Rückfragen wenden Sie sich bitte an:

Prof. Dr. med. Christian Bogdan

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