

IRON

Metabolism

From Molecular Mechanisms
to Clinical Consequences

Fourth Edition

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Iron is of fundamental importance to the growth, development and well-being of almost all living organisms. Multiple biological systems have evolved for the uptake, utilisation, storage, and homeostasis of iron in microbes, plants and mammals. Both iron deficiency and iron overload are found extensively in humans; the intimate links between iron and oxidative stress are associated with a wide range of pathologies. Iron has a well-established role in infections by a range of microorganisms and parasites. Other metals such as copper and zinc are also closely linked with iron metabolism. Iron overloads and deficiencies are important factors in the health of humans and are therefore a key target in drug development.

Iron Metabolism: From Molecular Mechanisms to Clinical Consequences, 4th Edition presents a comprehensive overview of this important area of research. It is written by one of the leaders in the field and presented in full colour, with numerous illustrations, and is fully updated with the latest discoveries. Major additions include new information on the immune system, haem transport, both systemically and intracellularly, and on divalent metal transporters.

The book is essential reading for researchers and students in biochemistry, molecular biology, microbiology, cell biology, nutrition and medical sciences. It will also find space on the bookshelves of bioinorganic chemists with an interest in iron metabolism, health professionals with an interest in diseases of iron metabolism, and pharmacologists in the pharmaceutical industry interested in developing novel iron-binding drugs.

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