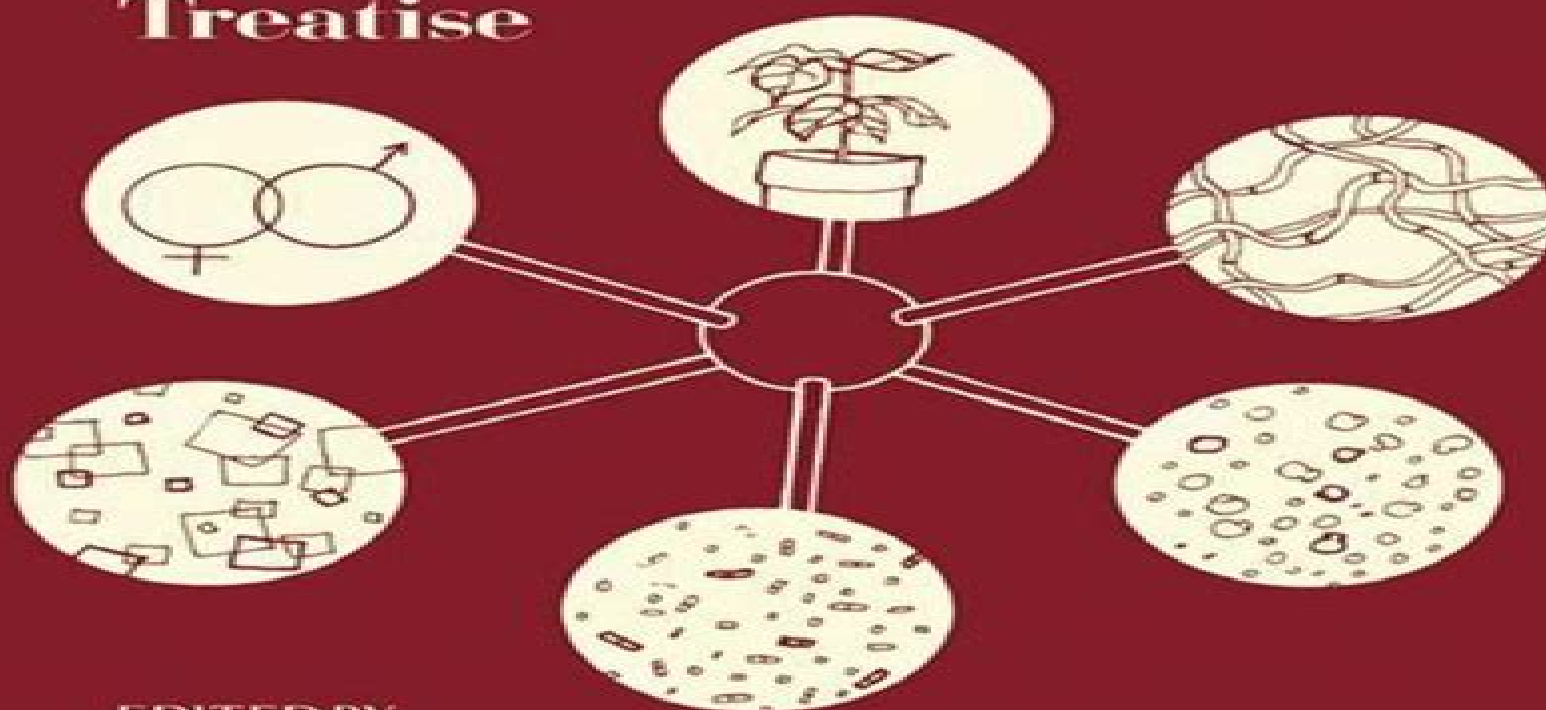


Microbial Iron Metabolism

A Comprehensive
Treatise



EDITED BY

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Microbial Iron Metabolism

Anthony S. Fauci



Microbial Iron Metabolism:

Microbial Iron Metabolism J. B. Neilands, 2014-06-28 *Microbial Iron Metabolism A Comprehensive Treatise* provides a comprehensive treatment of microbial iron metabolism. It aims to contribute to an increased understanding of the path of iron in microbial species and eventually in the plant and animal. The book is organized into five parts. Part I describes some features of iron and its function in the microbial world. These include a historical sketch of the recognition of the importance of iron in cellular physiology, a description of certain physical properties of ferrous and ferric ions, and a list of various known biocoordination derivatives grouped by ligand atom. Metabolism under iron limited conditions is also examined. Part II presents studies on iron transport, biosynthesis, and storage in microorganisms. Part III examines iron enzymes and proteins, including ferredoxin, rubredoxin, nitrogenase, and hydrogenase. Part IV deals with reactions of inorganic substrates. Part V presents a study on the role of bacterial iron metabolism in infection and immunity.

Iron Metabolism Robert Crichton, 2009-02-25 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*, 3rd Edition, presents a comprehensive overview of this important field. Topics covered include: Solution chemistry of iron in biological media; The importance of iron for biological systems; Microbial iron transport and metabolism; Iron uptake by plants and fungi; Cellular iron uptake and export in mammals; Intracellular iron storage and biomineralization; Intracellular iron metabolism and cellular iron homeostasis; Iron absorption in mammals with particular reference to man; and regulation of systemic iron balance. Pathophysiology of iron deficiency and iron overload in man; Iron and oxidative stress; Brain iron homeostasis and its perturbation in various neurodegenerative diseases; Interactions between iron and other metals. Written in a lively style by one of the leaders in the field and presented in full colour, this third expanded edition of *Iron Metabolism* has been fully updated with the latest discoveries. Major additions include recent information on mitochondrial iron metabolism and the role of frataxin; transcriptional control of iron homeostasis; orally active iron chelators; the roles of hepcidin and erythropoietin; the increasing number of types of iron overload; and the importance of iron in Alzheimer's disease. *Iron Metabolism* is essential reading for researchers and students in biochemistry, molecular biology, microbiology, cell biology, nutrition, and the 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 *Microbial Iron Metabolism: a Comprehensive Treatise [By] J. B. Neilands* J. B. Neilands, 1974

Handbook of Microbial Iron Chelates (1991) Gunther Winkelmann, 2017-11-22 *Handbook of Microbial Iron Chelates* emphasizes the various microbial compounds and synthetic analogues functioning as siderophores in microbes and as potential drugs in human iron metabolism. There are chapters describing the isolation, chemical characterization, synthesis, and physicochemical properties of microbial iron chelates. Other chapters deal with the physiology and genetics of transport and receptors involved in iron uptake. Chemists, biologists, biochemists, pharmacologists, and medical doctors interested in the general aspects of iron metabolism, siderophores, receptors, and iron complex formation should consider this book a rich information source. Molecular Aspects of Iron Metabolism in Pathogenic and Symbiotic Plant-Microbe Associations

Dominique Expert, Mark R. O'Brian, 2012-08-23 Iron plays a key role in biology as an essential cofactor of numerous proteins. However, since it is only slightly soluble, its bioavailability can be readily compromised under aerobic conditions. Moreover, due to its ability to catalyze the generation of free radicals, iron can also be toxic. Thus, it doesn't surprise that living organisms have developed sophisticated means for acquiring iron whilst tightly controlling the intracellular concentrations of this metal in response to environmental conditions. Also, the critical role of iron has long been acknowledged in host-vertebrate parasite relationships where both partners compete for the acquisition of this essential element and activate complex signaling cascades to control their iron homeostasis during infection. Following the great interest that the mechanisms regulating the acquisition of iron and the control of iron homeostasis have generated among researchers studying plant pathogen and legume rhizobia interactions, this book offers a comprehensive analysis of iron's various roles in the plant-microbial associations. The introductory chapter stresses the essentiality of iron in biological systems. The second chapter surveys the abundance of information on iron's pivotal role in microbial plant pathogenesis and defence. Finally, the third chapter reviews the advances in our understanding of iron metabolism in the rhizobia-soil bacteria able to establish a symbiotic association with legumes and carry out nitrogen fixation. *Molecular Aspects of Iron Metabolism in Pathogenic and Symbiotic Plant-Microbe Associations* is a valuable resource to microbiologists, pathologists, and scientists interested in iron uptake and metabolism in microbial pathogenesis, rhizobia-legume associations, and plant physiology and immunity.

Advances in Microbial Iron Cycling Lei Yan, Sujun Li, Orit Sivan, Sabine Kasten, 2022-07-13 *Secondary Metabolites and Volatiles of PGPR in Plant-Growth Promotion* R. Z. Sayyed, Virgilio Gavicho Uarrota, 2022-10-30 This contributed volume explores how plant growth-promoting rhizobacteria (PGPR) provide a wide range of benefits to the plant. Further, it discusses the key roles PGPR play in nutrient acquisition and assimilation, improved soil texture, secreting and modulating extracellular molecules. The book outlines how plant secondary metabolites are natural sources of biologically active compounds used in a wide range of applications and surveys the significant role of volatile organic compounds (VOCs) in plant communication by mediating above and below ground interactions between plants and the surrounding organisms. This volume compiles

research from leading scientists from across the globe linking the translation of basic knowledge to innovative applied research The book focuses on the following three categories 1 understanding the secondary metabolites produced by PGPR the signaling mechanisms and how they affect plant growth 2 the plausible role of volatile organic compounds produced by PGPR their role and the signaling mechanism for plant growth promotion and 3 Applications of VOCs and secondary metabolites of PGPR for seed germination plant growth promotion stress tolerance and in plant health and immunity

Research Awards Index ,1989 Current Topics in Microbiology and Immunology W. Arber,W. Henle,P. H. Hofschneider,J. H. Humphrey,J. Klein,P. Koldovsky,H. Koprowski,O. Maaløe,F. Melchers,R. Rott,H. G. Schweiger,L. Syru?ek,P. K. Vogt,2012-12-06 Iron Deficiency and Overload Shlomo Yehuda,David I. Mostofsky,2010-03-10 Iron deficiency is ever present among all populations throughout the world irrespective of race culture or ethnic background Even with the latest advances in medicine improved nutrition and the ready availability of cheap oral iron there is still no satisfactory explanation for the widespread occurrence of iron deficiency or for the absence of an effective treatment Iron Deficiency and Overload From Biology to Clinical Medicine is an important new text that provides a timely review of the latest science concerning iron metabolism as well as practical data driven options to manage at risk populations with the best accepted therapeutic nutritional interventions Chapter topics reflect the excitement in current theoretical development and laboratory activity in this area The distinguished authors address their presentations to professionals and graduate students who need to be better informed about the concepts methodologies and current status of the field Iron Deficiency and Overload From Biology to Clinical Medicine is an essential text that presents a sampling of the major issues in iron research from the most basic research level to human applications

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