Cellular and Molecular Biology of Metals



Edited by Rudolfs K. Zalups James Koropatnick



Cellular And Molecular Biology Of Metals

Rüdiger Hell, Ralf-Rainer Mendel

Cellular And Molecular Biology Of Metals:

Cellular and Molecular Biology of Metals Rudolfs K. Zalups, D. James Koropatnick, 2010-05-21 With chapter contributions from more than 30 metal biology experts Cellular and Molecular Biology of Metals explains the role of key divalent metal ions involved in the molecular and cellular biology of various target cell populations Although it primarily focuses on homeostatic metals such as nickel zinc and chromium the text also discusses Molecular Biology of Metal Homeostasis and Detoxification Markus J. Tamás, Enrico Martinoia, 2006-07-07 One of the challenges faced by every cell as well as by whole organisms is to maintain appropriate concentrations of essential nutrient metals while excluding nonessential toxic metals Toward that end all organisms have developed mechanisms for metal homeostasis and detoxification to maintain metal levels within physiological limits This book brings together current knowledge of the molecular basis of metal homeostasis and detoxification in various eukaryotic model systems including yeasts plants and mammals It focuses on the cellular systems controlling metal transport intracellular distribution and immobilization as well as on systems regulating metal dependent transcription In addition to environmental aspects including phytoremediation the book treats the pathophysiology of metal deficiency and overload in relation to disease Cell Biology of Metals and Nutrients Rüdiger Hell, Ralf-Rainer Mendel, 2010-03-10 Plants are composed of 17 essential and at least 5 beneficial elements and these must be taken up as metal or nutrient ions to allow for growth and cell division Much effort has been devoted to studying the physiology and biochemistry of metals and nutrients in plants The aspect of cell biology however is an emerging new field and much needs to be learned about sensing long distance communication within plants and cellular signal transduction chains in response to environmental stress Cellular malfunction and consequently disease result when any of the key steps in metal and nutrient homeostasis are disrupted Working together leading experts in their respective fields provide a new concept that reaches beyond plant nutrition and plasmalemma transport into cellular physiology Each chapter contains basic information on uptake physiological function deficiency and toxicity syndromes long distance and intracellular transport The discussion is devoted to metals and nutrients where recent progress has been made and highlights the aspects of homeostasis and sensing signaling and regulation drawing parallels to other organisms including humans Finally the book identifies gaps in our current knowledge and lays out future research directions Cell Biology of Metals and Nutrients Rüdiger Hell, Ralf-Rainer Mendel, 2010 Plants are composed of 17 essential and at least 5 beneficial elements and these must be taken up as metal or nutrient ions to allow for growth and cell division Much effort has been devoted to studying the physiology and biochemistry of metals and nutrients in plants The aspect of cell biology however is an emerging new field and much needs to be learned about sensing long distance communication within plants and cellular signal transduction chains in response to environmental stress Cellular malfunction and consequently disease result when any of the key steps in metal and nutrient homeostasis are disrupted Working together leading experts in their respective

fields provide a new concept that reaches beyond plant nutrition and plasmalemma transport into cellular physiology Each chapter contains basic information on uptake physiological function deficiency and toxicity syndromes long distance and intracellular transport The discussion is devoted to metals and nutrients where recent progress has been made and highlights the aspects of homeostasis and sensing signaling and regulation drawing parallels to other organisms including humans Finally the book identifies gaps in our current knowledge and lays out future research directions Biology and Toxicology of Metals Rudolfs K. Zalups, D. James Koropatnick, 2000-02-24 Molecular Biology and Toxicology of Metals provides a critical review and analysis of the current state of knowledge of metal ion transport and metabolism in prokaryotic and eukaryotic cellular systems It covers the latest information on specific metals and the biological molecules with which metals interact It also details mechanisms in the handling and toxicity of metals in specific organ systems and the role of metals in cell signalling and gene transcription in target cells This book is sure to prove a fertile meeting ground for the disciplines of molecular genetics and metal toxicology Metals in Cells Valeria Culotta, Robert A. Scott, 2013-12-30 Over the last three decades a lot of research on the role of metals in biochemistry and medicine has been done As a result many structures of biomolecules with metals have been characterized and medicinal chemistry studied the effects of metal containing drugs This new book from the EIBC Book Series covers recent advances made by top researchers in the field of metals in cells the metallome and include regulated metal ion uptake and trafficking sensing of metals within cells and across tissues and identification of the vast cellular factors designed to orchestrate assembly of metal cofactor sites while minimizing toxic side reactions of metals In addition it features aspects of metals in disease including the role of metals in neuro degeneration liver disease and inflammation as a way to highlight the detrimental effects of mishandling of metal trafficking and response to foreign metals With the breadth of our recently acquired understanding of metals in cells a book that features key aspects of cellular handling of inorganic elements is both timely and important At this point in our understanding it is worthwhile to step back and take an expansive view of how far our understanding has come while also highlighting how much we still do not know The content from this book will publish online as part of EIBC in December 2013 find out more about the Encyclopedia of Inorganic and Bioinorganic Chemistry the essential online resource for researchers and students working in all areas of inorganic and bioinorganic chemistry Cellular Effects of Heavy Metals Gaspar Banfalvi, 2011-03-02 The term heavy metals is used as a group name of toxic metals and metalloids semimetals causing contaminations and ecotoxicity In strict chemical sense the density of heavy metals is higher than 5 g cm3 From biological point of view as microelements they can be divided into two major groups a For their physiological function organisms and cells require essential microelements such as iron chromium III cobalt copper manganese molidenium zinc b The other group of heavy metals is toxic to the health or environment Of highest concern are the emissions of As Cd Co Cu Hg Mn Ni Pb Sn Tl The toxicity of heavy metals is well known at organizational level while less attention has been paid to their cellular effects

This book describes the toxicity of heavy metals on microorganisms yeast plant and animal cells Other chapters of the book deal with their genotoxic mutagenic and carcinogenic effects The toxicity of several metals touch upon the aspects of environmental hazard ecosystems and human health Among the cellular responses of heavy metals irregularities in cellular mechanisms such as gene expression protein folding stress signaling pathways are among the most important ones The final chapters deal with biosensors and removal of heavy metals As everybody is eating drinking and exposed to heavy metals on a daily basis the spirit of the book will attract a wide audience Mineral and Metal Neurotoxicology Masayuki Yasui, M. Anthony Verity, 1996-09-26 Trace minerals and metals such as zinc copper and magnesium are accepted as a natural part of the human system Interactions of some elements and or disturbances in trace metal or mineral homeostasis can however be toxic to the central nervous system CNS Mineral and Metal Neurotoxicology describes a wide range of basic and clinical Information Resources in Toxicology, Volume 1: Background, Resources, and Tools, 2020-05-16 This new fifth issues edition of Information Resources in Toxicology offers a consolidated entry portal for the study research and practice of toxicology Both volumes represents a unique wide ranging curated international annotated bibliography and directory of major resources in toxicology and allied fields such as environmental and occupational health chemical safety and risk assessment The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology s subdisciplines This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools Due to the increasing size of the hardcopy publication the current edition has been divided into two volumes to make it easier to handle and consult Volume 1 Background Resources and Tools arranged in 5 parts begins with chapters on the science of toxicology its history and informatics framework in Part 1 Part 2 continues with chapters organized by more specific subject such as cancer clinical toxicology genetic toxicology etc The categorization of chapters by resource format for example journals and newsletters technical reports organizations constitutes Part 3 Part 4 further considers toxicology s presence via the Internet databases and software tools Among the miscellaneous topics in the concluding Part 5 are laws and regulations professional education grants and funding and patents Volume 2 The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries followed by a glossary of toxicological terms and an appendix of popular quotations related to the field The book offered in both print and electronic formats is carefully structured indexed and cross referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed Among the many timely topics receiving increased emphasis are disaster preparedness nanotechnology omics risk assessment societal implications such as ethics and the precautionary principle climate change and children's environmental health Introductory chapters provide a backdrop to the science of toxicology its history the origin and status of toxicoinformatics and starting points for identifying resources Offers an extensive array of chapters organized by subject each highlighting resources such as journals databases organizations and review articles

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