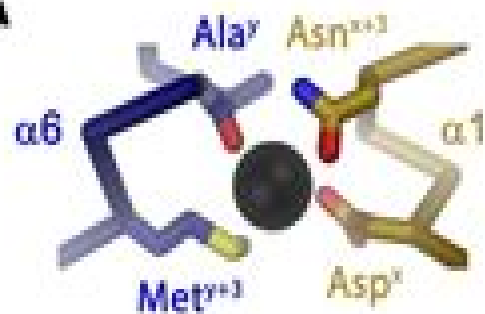


A**B**

animal NRAMPs
Fe²⁺ transporters

α1 α6
DxxN..AxxM

plant NRAMPs
transition metal ion
transporters

α1 α6
DxxN..CxxM

plant NRATs
NRAMP-related
Al³⁺ transporters

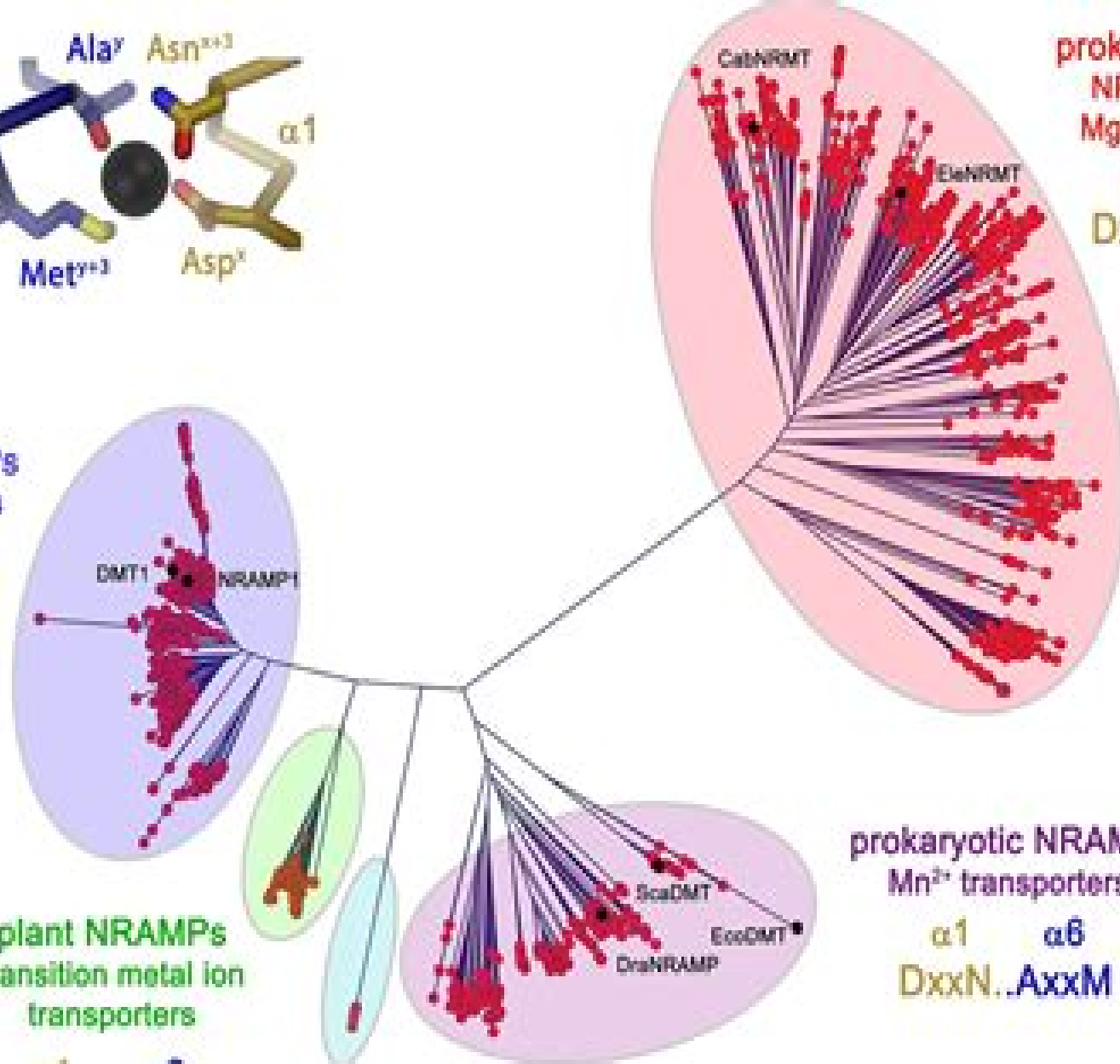
α1 α6
DxxN..AxxT

prokaryotic NRAMPs
Mn²⁺ transporters

α1 α6
DxxN..AxxM

prokaryotic NRMTs
NRAMP-related
Mg²⁺ transporters

α1 α6
DxxG..TxxA/T



Nramp Family

Tariq Aftab



Nramp Family:

The Nramp Family Mathieu Cellier,Philippe Gros,2004-08-25 This book is the first comprehensive volume on the Nramp family highlighting the physiological importance of Nramp proteins as metal transporters The molecular knowledge of these membrane proteins is presented from an evolutionary perspective considering Nramp cellular function and mechanism of transport in key model organisms The pathological significance of Nramp genetic polymorphism is discussed with emphasis on metal homeostasis and microbial infection The chapters were contributed by leading investigators providing a timely state of the art book in this rapidly growing field The Nramp Family will be useful to a broad community of scientists interested in metal transport and molecular biology It will be of interest to the research audience in the broad fields of metal ions and molecular medicine

Plant Metal and Metalloid Transporters Kundan Kumar,Sudhakar Srivastava,2022-10-29 This edited book stands as a one place knowledge hub for plant metal loid transporters The book comprehensively covers holistic aspect of metal loid transporters involved in uptake and translocation of essential as well as toxic metal loid s Essential and beneficial metal loid s are required in every biological process for normal plant growth and development however in excess they are toxic There are toxic metal loid s also whose accumulation in plants interferes with normal cellular functioning and hampers growth of plants Hence metal loid uptake and accumulation in plants is a highly regulated phenomenon involving the role of several transporters enzymes metabolites transcription factors and post translational modifications The book contains chapters from the experts and the contents of the book are presented in simple language and represented through beautiful and scientifically informative figures and tables This book is of interest to teachers researchers doctoral and graduate students working in the area of plant physiology environmental biotechnology plant biotechnology metal loid stress phytoremediation and crop biofortification

Metals and Genetics Bibudhendra Sarkar,2012-12-06 During the past few years major scientific discoveries have greatly contributed to our understanding of the relationship between metals and genetics The fields which have contributed to this area range from Clinical Medicine and Genetics to Biochemistry and Chemistry The aim of this book is to bring together investigators from these diverse fields to reflect on the broad implications of direct and indirect interactions of metals and genetic components The volume begins with a tribute to the late Karen Wetterhahn an outstanding scientist in the field who will be sadly missed by her friends and colleagues because of her untimely death The book has 28 chapters contributed by scientists who are internationally known for their expertise and outstanding research The subject matters are divided into five major sections The first section discusses genetic response to environmental exposure to metals Potentially devastating health crises have been reported in recent years from several parts of the world which stem from environmental exposure to metals In this section authors report their findings on the effects and influence of metals in gene expression and their consequences to human health The section on metal carcinogenesis and metal caused DNA damage presents the latest advances in our knowledge of the molecular mechanisms

of metal induced mutagenesis and carcinogenesis This topic is at the very heart of our understanding of how cancer may be caused by various metals

Metal Transporters Jose M. Arguello, Svetlana Lutsenko, José M. Argüello, 2012-10-25 This volume of Current Topics in Membranes focuses on metal transmembrane transporters and pumps a recently discovered family of membrane proteins with many important roles in the physiology of living organisms The book summarizes the most recent advances in the field of metal ion transport and provides a broad overview of the major classes of transporters involved in homeostasis of heavy metals Various families of the transporters and metal specificities are discussed with the focus on the structural and mechanistic aspects of their function and regulation The reader will access information obtained through a variety of approaches ranging from X ray crystallography to cell biology and bioinformatics which have been applied to transporters identified in diverse biological systems such as pathogenic bacteria plants humans and others Field is cutting edge and a lot of the information is new to research community Wide breadth of topic coverage Contributors of high renown and expertise

Plant Membrane and Vacuolar Transporters Pawan K. Jaiwal, Rana P. Singh, Om Parkash Dhankher, 2008-01-01 While information on the roles and regulation of transporters for all major nutrients and metabolites in plants has increased significantly a synthesis of this research has been lacking Based on current research in genomics and proteomics this book cla

Metal Ions in Biological Systems Helmut Sigel, 2000-01-27 Highlights the availability of magnesium to organisms its uptake and transport in microorganisms and plants as well as its role in health and disease of animals and humans including its toxicology

Genomics, Transcriptomics, Proteomics and Metabolomics of Crop Plants Azamal Husen, Altaf Ahmad, 2023-07-11 Genomics Transcriptomics Proteomics and Metabolomics of Crop Plants presents current operational methods applied to model crop plants Including subcellular organelles DNA fingerprinting and barcoding sRNA gene expression rhizosphere engineering marker assisted and 5G breeding plant microorganism interactions stress signaling and responses the book highlights important factors that are often overlooked and explores the latest research The book also explores cutting edge approaches for immediate application in new research such as OMICS genome wide transcriptome profiling bioinformatics and database DNA fingerprinting and barcoding sRNA gene expression genome editing diagnostics rhizosphere engineering marker assisted and 5G breeding crop plant microorganism interactions stress signaling and responses Additionally the book describes opportunities to manipulate crop plants genetic and metabolic systems while also exploring the related bioethical and biosafety issues These topics are chosen and covered in detail to fill the gap in this understanding of crop molecular biology Includes coverage of the latest trends on plants bioinformatics and databases Presents the overall scope of OMIC sciences with rich illustration Provides implementation advice and future challenges

Omics Analysis of Plants under Abiotic Stress Tariq Aftab, 2022-11-30 This new volume highlights the various emerging techniques and molecular applications that are currently being used in plant abiotic stress physiology It provides a thorough overview of omics approaches in response to stressors such as low water accessibility drought excess

water flooding waterlogging extremes of temperatures cold chill frost and heat salinity mineral deficiency and heavy metal toxicity many of which are the result of climate change The book with chapters contributed by specialists in the field emphasizes the broad variety of themes using an omics analysis of plants under abiotic stress factors at the cellular and molecular levels The chapter authors explore a variety of approaches to address plant abiotic stress including proteomic approaches genome editing applications and system biology approaches The volume takes into consideration from omics perspective how to use the plant microbe interaction to make plants more resilient to changing climates It also looks at the role of ionomics the study of complete mineral nutrient and trace elemental composition of a plant species and osmoprotectants to address multiple abiotic stress tolerance in plants Omics Analysis of Plants under Abiotic Stress provides the fundamental information for all who are working in or have interest in this specific field Unquestionably this volume will be beneficial for common use of research students teachers and persons who have interest in plant abiotic stress physiology

Plant Stress Biology Bhoopander Giri, Mahaveer Prasad Sharma, 2021-02-05 Plants growing in the natural environment battle with a variety of biotic pathogens infection and abiotic salinity drought heat and cold stresses etc stresses These physiological stresses drastically affect plant growth and productivity under field conditions These challenges are likely to grow as a consequences of global climate change and pose a threat to the food security Therefore acquaintance with underlying signalling pathways physiological biochemical and molecular mechanisms in plants and the role of beneficial soil microorganisms in plant s stress tolerance are pivotal for sustainable crop production This volume written by the experts in the stress physiology and covers latest research on plant s tolerance to abiotic and biotic stresses It elaborates on the potential of plant microbe interactions to avoid the damage caused by these stresses With comprehensive information on theoretical technical and experimental aspects of plant stress biology this extensive volume is a valuable resource for researchers academicians and students in the broad field of plant stress biology physiology microbiology environmental and agricultural science

Improving the Nutritional Content and Quality of Crops: Promises, Achievements, and Future Challenges Felipe Klein Ricachenevsky, Marta Wilton Vasconcelos, Huixia Shou, Alexander Arthur Theodore Johnson, Raul Antonio Sperotto, 2019-09-23

Plant Responses to Cadmium Toxicity Tariq Aftab, 2024-12-19 This book offers an exploration of how plants respond to the presence of cadmium shedding light on both the physiological and molecular mechanisms In an era of growing environmental concern this edited book serves as an invaluable resource shedding light on the intricate interplay between plants and cadmium a menacing environmental pollutant Cadmium s pervasive presence in the soil poses a significant threat to plant ecosystems impacting food security and human well being This comprehensive book explores the multifaceted responses of plants to cadmium toxicity offering critical insights into the physiological and molecular mechanisms governing these reactions The edited book delves into the intricate relationship between plants and cadmium a highly toxic heavy metal Cadmium contamination in the environment largely stemming from industrial processes

and agricultural practices poses a significant threat to plant ecosystems and by extension human and environmental health. This book offers a comprehensive exploration of how plants respond to the presence of cadmium, shedding light on both the physiological and molecular mechanisms that govern these responses. Written by leading experts in the field, this book provides a holistic understanding of the challenges posed by cadmium contamination and the innovative strategies plants employ to combat its detrimental effects. It encompasses a wide array of topics from the physiological changes plants undergo under cadmium stress to the genetic and molecular pathways activated in response. Furthermore, it explores the practical potential of phytoremediation, a sustainable approach that harnesses plants' abilities to detoxify contaminated environments. This book is a valuable resource for researchers, scholars, and students in the fields of plant biology, environmental science, and toxicology, offering a deep understanding of the challenges presented by cadmium contamination and the innovative strategies that plants employ to adapt and thrive in the face of adversity. With a focus on both fundamental science and practical applications, this edited book offers a comprehensive perspective on a critical issue in modern agriculture.

environmental science and plant biology **Handbook of Copper Pharmacology and Toxicology** Edward J. Massaro, 2002-07-01

Edward J. Massaro and a panel of leading biomedical researchers and clinical practitioners review in depth the status of our current knowledge concerning the biochemistry of copper in general and its role in health and disease in particular. Drawing on the wealth of new information emerging from the molecular biology revolution, these experts survey the most important research areas of copper pharmacology and toxicology, including copper proteins and transport, copper toxicity and therapeutics, and copper metabolism and homeostasis. They also discuss the molecular pathogenesis of copper in a variety of metabolic diseases, Menkes and Wilson's diseases, and occipital horn syndrome, as well as the role of copper in Parkinson's disease, prion disease, familial amyotrophic lateral sclerosis (ALS), and Alzheimer's disease.

Plant, Soil and Microbes Khalid Rehman Hakeem, Mohd Sayeed Akhtar, 2016-06-21

The interactions between the plant, soil, and microbes are very complex in nature and may be antagonistic, mutualistic, or synergistic, depending upon the types of microorganisms and their association with the plant and soil. The multi-trophic tactics are involved in these types of interactions to nourish the plants in various habitats and conditions. Understanding the mechanisms of these interactions is highly desired to utilize the knowledge in such an eco-friendly and sustainable way, which may not only resolve the upcoming food security issues but also make the environment green by reducing the chemical inputs.

Plant, Soil and Microbes: Mechanisms and Molecular Interactions along with the recently published **Plant, Soil and Microbes: Implications in Crop Science** provide detailed accounts of the exquisite and delicate balance between the three critical components of agronomy. Specifically, these two titles focus on the basis of nutrient exchange between the microorganisms and the host plants, the mechanism of disease protection, and the recent molecular details emerged from studying this multitrophic interaction. Together, they provide a solid foundation for the students, teachers, and researchers interested in soil microbiology, plant pathology, ecology, and agronomy.

The Plant Plasma Membrane Angus S. Murphy, Wendy Peer, Burkhard Schulz, 2010-11-11 In plant cells the plasma membrane is a highly elaborated structure that functions as the point of exchange with adjoining cells cell walls and the external environment Transactions at the plasma membrane include uptake of water and essential mineral nutrients gas exchange movement of metabolites transport and perception of signaling molecules and initial responses to external biota Selective transporters control the rates and direction of small molecule movement across the membrane barrier and manipulate the turgor that maintains plant form and drives plant cell expansion The plasma membrane provides an environment in which molecular and macromolecular interactions are enhanced by the clustering of proteins in oligomeric complexes for more efficient retention of biosynthetic intermediates and by the anchoring of protein complexes to promote regulatory interactions The coupling of signal perception at the membrane surface with intracellular second messengers also involves transduction across the plasma membrane Finally the generation and ordering of the external cell walls involves processes mediated at the plant cell surface by the plasma membrane This volume is divided into three sections The first section describes the basic mechanisms that regulate all plasma membrane functions The second describes plasma membrane transport activity The final section of the book describes signaling interactions at the plasma membrane These topics are given a unique treatment in this volume as the discussions are restricted to the plasma membrane itself as much as possible A more complete knowledge of the plasma membrane s structure and function is essential to current efforts to increase the sustainability of agricultural production of food fiber and fuel crops

Advances on Genomics and Genetics of Horticultural Crops and their Contribution to Breeding Efforts, volume II Eleni Tani, Aliko Xanthopoulou, Christos Bazakos, 2024-03-06 Horticultural crops are an excellent source of vitamins antioxidants and fibers that play an important role in human health The discovery of modern genomic tools the continuous generation of genomic data and the application of comparative and functional genomics are high importance innovations with numerous applications in crop breeding The utilization of all these new techniques in combination with the analysis of genomic data using bioinformatics tools contribute to a better understanding of the function of various agronomic traits of interest as well as horticultural crops breeding Over the last few years novel genome editing tools such as the CRISPR Cas9 have been developed and revolutionized molecular technologies due to their simplicity high efficiency and specificity

Genetic Susceptibility to Infectious Diseases Richard A. Kaslow, Janet McNicholl, Adrian V. S. Hill, 2008 Infectious diseases are commonly regarded as a distinct category with different causes and patterns than chronic or genetic disease But in fact there are many varieties of genetic susceptibility to infection the subject of this book which will be divided into three sections 1 concepts and methods 2 genes and pathophysiologic mechanisms and 3 infectious agents and diseases No currently published text on either genetics or infectious diseases focuses on the genetic aspects of the special relationship between host and pathogen in the way envisioned for Section 1 No other work on the selected genes regulating immunity deals as systematically with the sequence

variation function relationships most pertinent to infection as planned for Section 2 And no other book gives as meaningful a picture of how these genes operate in infectious disease as Section 3 will

Heavy Metal Contamination of Soils Irena Sherameti, Ajit Varma, 2015-04-06 Following a description of the various sources and factors influencing the contents of heavy metal pollution in post catastrophic and agricultural soils subsequent chapters examine soil enzymes and eggs as bio monitors lead adsorption the effects of arsenic on microbial diversity and the effects of Mediterranean grasslands on abandoned mines A third section focuses on the adaptation strategies used by plants and bacteria such as *Pinus sylvestris* in industrial areas and the rhizosphere in contaminated tropical soils and soil treated with sewage sludge Further topics addressed include strategies of bioremediation e g using transgenic plants as tools for soil remediation This new volume on heavy metals in soil will be of interest to researchers and scholars in microbial and plant biotechnology agriculture the environmental sciences and soil ecology

Plant Adaptation and Phytoremediation M. Ashraf, M. Ozturk, M. S. A. Ahmad, 2010-08-17 The problems engendered by the conflicting imperatives of development and ecology show no sign of ending and every day more locations are added to the list of landscapes poisoned by human activity This vital book featuring an international set of authors is a key reference for researchers and environmental managers as well as anyone involved in the mining industry or landscape remediation The comprehensive coverage of current approaches to phytoremediation begins by examining the problem It looks at natural and human induced toxins and their effects on natural vegetation as well as agricultural crops Particular attention is paid to the two largest challenges to remediation heavy metals and the salt stress that is impeding agricultural productivity worldwide The text moves on to focus on the efficacy of different plant species in removing toxic pollutants from the environment Along with analysis of a number of case studies this section includes new and updated information on the mechanism of toxin tolerance in plants

Legumes: Physiology and Molecular Biology of Abiotic Stress Tolerance Prakash Muthu Arjuna Samy, Anandan Ramasamy, Viswanathan Chinnusamy, B. Sunil Kumar, 2023-02-02 This edited volume provides state of the art overview of abiotic stress responses and tolerance mechanisms of different legume crops viz chickpea mung bean lentil black gram cowpea cluster bean soybean and groundnut Legumes play an important role in human nutrition and soil health through fixation of nitrogen Legume production and productivity are vulnerable to different abiotic stresses A proper understanding about the physiological and molecular basis of the legume crops is essential for genetic improvement of abiotic stress tolerance This book consists of 15 chapters covering physiological and biochemical basis molecular physiology molecular breeding genetics genomics transgenics epigenetics of drought saline high temperature and nutrient deficiency stresses and the role of microRNAs in abiotic stress tolerance This volume offers new perspectives in legume crop abiotic stress management and is useful for various stakeholders including post graduates students scientists environmentalists and policymakers

Trace Elements as Contaminants and Nutrients M. N. V. Prasad, 2008-08-20 Access state of the art research about trace element contamination and its impact on human health in

Trace Elements as Contaminants and Nutrients Consequences in Ecosystems and Human Health In this ground breaking guide find exhaustive evidence of trace element contamination in the environment with topics like the functions and essentiality of trace metals bioavailability and uptake biochemistry membrane biochemistry and transport mechanisms and enzymology Find case studies that will reinforce the fundamentals of mineral nutrition in plants and animals and current information about fortified foods and nutrient deficiencies

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