

Amino Acids in Higher Plants

EDITED BY
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Amino Acids In Higher Plants

Horst Marschner

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Amino Acids In Higher Plants:

Amino Acids in Higher Plants J P F D'Mello, 2015-04-15 Amino acids play a role in the defence mechanisms and stress responses of plants as well as in food quality and safety for humans and animals Recent advances in the field make a comprehensive overview of the information a necessity this book collates chapters on plant enzymes and metabolism modulation molecular aspects and secondary products Also including information on ecology the environment and mammalian nutrition and toxicology it provides an authoritative resource **Amino Acids in Higher Plants** Jayant Khillare, 2015-03 Amino acid biochemistry in plants has been a major topic research There are many aspects of amino acid metabolism in plants that has to be understood The biosynthesis and metabolic regulation of synthesis of several protein amino acid still pose questions such as histidine synthesis the regulation of methionine synthesis and proline metabolism which is dealt with in a limited way Amino acid derived secondary metabolites are still rich field of biochemists and recent progress in understanding metabolisms is encouraging Plants convert inorganic nitrogen into amino acids the building blocks for proteins They also make a wide range of other nitrogen compounds to help protect themselves from pests and diseases An understanding of these compounds can therefore help in devising better crop protection and production methods This volume contains essays by scientists who have studied aspects of plant nitrogen nutrition and amino acid biosynthesis There are chapters on protein amino acids nonprotein amino acids betaines glutathione polyamines and other secondary metabolites derived from amino acids The results of these studies will be of interest to students and professionals in biochemistry and botany *Amino Acids and Their Derivatives in Higher Plants* R. M. Wallsgrove, 1995-01-26 For 150 years scientists at the Rothamsted Experimental Station have studied aspects of plant nitrogen nutrition and amino acid biosynthesis This book is the result of a meeting held to mark this century and a half of work there The papers look at the significant progress in understanding the biochemistry of amino acids recently achieved in the light of this history of research Leading researchers from around the world have contributed authoritative chapters on protein amino acids non protein amino acids betaines glutathione polyamines and other secondary metabolites derived from amino acids As well as being essential in some animals nutrition these compounds can have important roles in defending against herbivores insects and disease An understanding of these compounds can help in devising better crop protection and production methods **Fundamental, Ecological and Agricultural Aspects of Nitrogen Metabolism in Higher Plants** J.T. Lambers, G. Stulen, J.J. Neeteson, 2012-12-06 Rinie Hofstra has been a member of the Department of Plant Physiology University of Groningen the Netherlands for 24 years The nearer we came to 31 March 1985 her 65th birthday the more we all realized how we would miss her not only scientifically but also socially She left her mark on both research and teaching always with an open mind and willing to change After her PhD Thesis on Nitrogen Metabolism in Tomato Plants she first continued working in that field but soon started a joint project with the Department of Plant Ecology on hemiparasites She then became involved in carbon metabolism which resulted in

her giving a Biotrop Course on C C metabolism in 3 4 Indonesia Her own research group originally working on Nitrogen Metabolism soon embraced Energy and Nitrogen Metabolism as the research on respiration became more and more important In running her group she showed all sides of her person She used to stimulate and encourage everyone around her and to integrate the various lines of research At the same time she always had an open mind for the opinion of all members of her group And together they regularly criticized and evaluated the various projects and decided how to continue

Marschner's Mineral Nutrition of Higher Plants Horst Marschner, 2012 Respected and known worldwide in the field for his research in plant nutrition Dr Horst Marschner authored two editions of Mineral Nutrition of Higher Plants His research greatly advanced the understanding of plant nutrition ranging from rhizosphere processes to nutrient uptake and utilization by plants in the field While visiting field experiments in West Africa in 1996 Dr Marschner contracted malaria and passed away and until now this legacy title went unrevised Despite the passage of time it remains the definitive reference on plant mineral nutrition Since the last edition great progress has been made in the understanding of various aspects of plant nutrition In recent years the perspective on the mode of action of nutrients in plant metabolism and yield formation has shifted Much progress has been made in the molecular aspects of nutrient uptake and transport within plants as well as the responses of plants to nutrient deficiency or toxicity These and many other developments are covered in this long awaited new edition P 4 of cover A Molecular Approach To Primary Metabolism In Higher Plants Christine Foyer, W. Paul Quick, 1997-08-08 Discusses and explains the major advances that the new technology of applying molecular genetic techniques of modifying carbon and nitrogen in plants has provided giving insights into its applications for the benefits of agriculture the environment and man The text is divided into three sections the first focusing on primary nitrogen and carbon

Nitrogen Acquisition and Assimilation in Higher Plants Sara Amancio, Ineke Stulen, 2007-09-29 Nitrogen is an essential element for plant growth During the green revolution nitrogen fertilisation was responsible for spectacular yield increases At present yield is balanced with commitments towards the environment and sustainable agriculture For agro biotechnology comprehensive knowledge of plant functioning is needed Yield improvement and accumulation of essential nitrogen compounds is relying on selection and gene technologies Research on the uptake acquisition and assimilation of nitrogen as well as the synthesis and storage of reserve and defence N compounds therefore is essential The third volume in the Plant Ecophysiology series integrates functional and molecular physiology with ecophysiological and sustainable agricultural approaches to get a better understanding of the regulation and the impact of environmental and stress signals on nitrogen acquisition and assimilation The book is of interest for advanced students and junior researchers and supplies comprehensive information for scientists working in the field of nitrogen metabolism and readers interested in sustainable development *Male Sterility in Higher Plants* Mohan L.H. Kaul, 2012-12-06 Nature has something more in view than that its own proper males should fecundate each blossom Andrew Knight Philosophical Transactions 1799 Sterility implicating the

male sex solely presents a paradoxical situation in which universality and uniqueness are harmoniously blended. It maintains a built-in outbreeding system but is not an isolating mechanism as male steriles self-emasculated plants outcross with their male fertile siblings normally. Both nuclear and cytoplasmic genes individually as well as conjointly induce male sterility, the former being genetic and the latter nongenetic. Genetic male sterility is controlled either exclusively by nuclear genes *ms* or by the complementary action of nuclear *lr* and cytoplasmic *c* genes. The former is termed genic and the latter gene cytoplasmic male sterility. Whereas genic male sterility exhibits Mendelian inheritance, gene cytoplasmic male sterility is non-Mendelian with specific transmissibility of the maternal cytoplasm type. Genetic male sterility is documented in 617 species and species crosses comprising 320 species, 162 genera and 43 families. Of these, genic male sterility occurs in 216 species and 17 species crosses, and gene cytoplasmic male sterility in 16 species and 271 species crosses. The predominance of species exhibiting genic male sterility and of species crosses exhibiting gene cytoplasmic male sterility is due to the fact that for the male sterility expression in the former, mutation of nuclear genes is required, but in the latter, mutations of both nuclear and cytoplasmic genes are necessary.

The Apoplast of Higher Plants: Compartment of Storage, Transport and Reactions

Burkhard Sattelmacher, Walter J. Horst, 2007-06-17. This book summarizes the experimental work conducted during a transdisciplinary research program conducted for six years by the German Research Foundation. Each chapter includes introductory remarks written by internationally recognized scientists in their research areas. Contributing authors representing outstanding German scientists from such different disciplines as Physics, Biochemistry, Plant Nutrition, Botany, and Molecular Biology not only report original research but also review the state of knowledge in their fields of research.

Mineral Nutrition of Higher Plants Horst Marschner, 1995-04-11. An understanding of the mineral nutrition of plants is of fundamental importance in both basic and applied plant sciences. The Second Edition of this book retains the aim of the first in presenting the principles of mineral nutrition in the light of current advances. This volume retains the structure of the first edition, being divided into two parts: Nutritional Physiology and Soil-Plant Relationships. In Part I, more emphasis has been placed on root-shoot interactions, stress physiology, water relations, and functions of micronutrients. In view of the worldwide increasing interest in plant-soil interactions, Part II has been considerably altered and extended, particularly on the effects of external and internal factors on root growth and chapter 15 on the root-soil interface. The second edition will be invaluable to both advanced students and researchers.

Key Features: Second Edition of this established text. Structure of the book remains the same: 50% of the reference and 50% of the figures and tables have been replaced. Whole of the text has been revised. Coverage of plant-soil interactions has been increased considerably.

Nucleic Acids and Proteins in Plants I D. Boulter, 2012-12-06. D. BOULTER and B. PARTHIER. At the time of the former edition of the Encyclopedia of Plant Physiology, approximately 25 years ago, no complete plant protein amino acid sequences or nucleic acid sequences had been determined. Although the structure of DNA and its function as the genetic

material had just been reported little detail was known of the mechanism of its action and D G CATCHSIDE was to write in the first chapter of the first volume of the Encyclopedia There is a considerable body of evidence that the gene acts as a unit of physiological action through the control of individual enzymes No cell free transcription and protein synthesizing systems were available and the whole range of powerful methods of recombinant DNA technology was still to be developed Today for the first time with plant systems it is possible not only to describe their molecular biology but also to manipulate it i e to move from a description to a technological phase The properties of living systems are inscribed by those of the proteins and nucleic acids which they synthesize Proteins due to their very large size occur as macromolecules in colloidal solution or associated in supra molecular colloidal form The colloidal state confers low thermal conductivity low diffusion coefficients and high viscosity properties which buffer a biological system from the effects of a changing environment Biological systems not only have great stability but also the capacity to reproduce

The Excretory Function of Higher Plants Victoria V

Roshchina, Valentina D. Roshchina, 2012-12-06 The secretory activity of plants is a manifestation of the fundamental property of all living organisms the ability to exchange substances and energy with the environment This book summarizes today's knowledge of all such secretory activities of higher plants It equally considers the cellular aspects intracellular and external secretion gas excretion and the excretion of substances under extreme conditions as well as the biological effects of plant excreta

Photobiology of Higher Plants Maurice S. McDonald, 2003-06-02

The Photobiology of Higher Plants offers a comprehensive balanced coverage of both photosynthesis including physiology and global aspects and photomorphogenesis in plants An accessible student friendly approach to the subject is taken providing the reader with a useful historical perspective and showing how this fascinating subject has evolved All aspects of plant biochemistry and plant physiology are included with the fundamentals of the subject rigorously covered Each chapter includes numerous references to provide a useful starting point for those wishing to learn more about the subject Provides combined coverage of both photosynthesis and photomorphogenesis in plants Includes an extensive glossary designed to provide easy access to key terms Aimed at students in Botany Plant Science Agriculture and Forestry A useful reference for postgraduates and researchers working in the field

Sexual Reproduction in Higher Plants Mauro Cresti, Paolo Gori, Ettore Pacini, 2012-12-06

Based on papers presented at the International Symposium on Sexual Reproduction in Higher Plants this volume covers the topics micro and macrosporogenesis the activation and recognition of mature pollen pollen germination and tube emission in vivo and in vitro pollen and pollen tube cytoskeleton stigma and style morphology pollen stigma interactions incompatibility mechanisms and gene expression The reinvestigation of classical topics using modern methods such as immunofluorescence micromanipulation freeze substitution electron microscopy etc is the common basis of all results presented Especially applied aspects of sexual reproduction important e.g. for crop improvement are discussed in detail

Genome Organization in

Higher Plants Mr. Rohit Manglik, 2024-07-19 EduGorilla Publication is a trusted name in the education sector committed to

empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Biochemical Mechanisms of Detoxification in Higher Plants George Kvesitadze, Gia Khatisashvili, Tinatin Sadunishvili, Jeremy J. Ramsden, 2006-04-05 Plants play a key role in purifying the biosphere of the toxic effects of industrial activity This book shows how systematic application of the results of investigations into the metabolism of xenobiotics foreign often toxic substances in plants could make a vastly increased contribution to planetary well being Deep physiological knowledge gained from an accumulation of experimental data enables the great differences between the detoxifying abilities of different plants for compounds of different chemical nature to be optimally exploited Hence planting could be far more systematically adapted to actual environmental needs than is actually the case at present The book could form the basis of specialist courses in universities and polytechnics devoted to environmental management and advanced courses in plant physiology and biochemistry for botany and integrative biology students Fundamental plant physiology and biochemistry from the molecular level to whole plants and ecosystems are interwoven in a powerful and natural way making this a unique contribution to the field

Sulfur Metabolism in Higher Plants - Fundamental, Environmental and Agricultural Aspects Luit J. De Kok, Malcolm J. Hawkesford, Silvia H. Haneklaus, Ewald Schnug, 2017-06-16 This proceedings volume contains a selection of invited and contributed papers of the 10th International Workshop on Sulfur Metabolism in Plants which was held in Goslar Germany September 1 4 2015 The focus of this workshop was on the fundamental environmental and agricultural aspects of sulfur in plants and presents an overview of the progress in the research developments in this field in the 28 years since the first of these workshops The volume covers various aspects of the regulation of the uptake and assimilation of sulfate in plants from a molecular to a whole plant level with an emphasis on the significance of sulfur metabolism in plant responses to stress and in food security

In Vitro Culture of Higher Plants R.L.M Pierik, 2012-12-06 In Vitro Culture of Higher Plants presents an up to date and wide ranging account of the techniques and applications and has primarily been written in response to practical problems Special attention has been paid to the educational aspects Typical methodological aspects are given in the first part laboratory set up composition and preparation of media sterilization of media and plant material isolation and sub culture mechanization the influence of plant and environmental factors on growth and development the transfer from test tube to soil aids to study The question of why in vitro culture is practised is covered in the second part embryo culture germination of orchid seeds mericloning of orchids production of disease free plants vegetative propagation somaclonal variation test tube fertilization haploids genetic manipulation other applications in phytopathology and plant breeding secondary metabolites

In Vitro Haploid Production in Higher Plants S. Mohan Jain, S.K. Sopory, R.E. Veilleux, 2013-06-29 Since the beginning of agricultural production there has been a continuous effort to grow more and better quality food to feed ever increasing populations Both improved cultural

practices and improved crop plants have allowed us to divert more human resources to non agricultural activities while still increasing agricultural production Malthusian population predictions continue to alarm agricultural researchers especially plant breeders to seek new technologies that will continue to allow us to produce more and better food by fewer people on less land Both improvement of existing cultivars and development of new high yielding cultivars are common goals for breeders of all crops In vitro haploid production is among the new technologies that show great promise toward the goal of increasing crop yields by making similar germplasm available for many crops that was used to implement one of the greatest plant breeding success stories of this century i.e the development of hybrid maize by crosses of inbred lines One of the main applications of anther culture has been to produce diploid homozygous pure lines in a single generation thus saving many generations of backcrossing to reach homozygosity by traditional means or in crops where self pollination is not possible Because doubled haploids are equivalent to inbred lines their value has been appreciated by plant breeders for decades The search for natural haploids and methods to induce them has been ongoing since the beginning of the 20th century

Biofortification of Food Crops Ummed Singh, C S Praharaj, S S Singh, N P Singh, 2016-01-22 The chapters presented in this book Biofortification of Food Crops depict how agricultural technological interventions have true role in alleviating malnutrition This book highlights the role of multidisciplinary approaches to cope up with the challenges of micronutrient malnutrition or hidden hunger which is an alarming public health issue in most parts of the world including India In this endeavour different biofortification approaches such as agronomic or ferti fortification breeding biotechnological physiological microbial etc has fulfilled their different mandates of nutrient enrichment of food crops including cereals and pulses The contents of the book proves that biofortified plants have adequate potential to nourish nutrient depleted soils help increase crop productivity and provide nutritional benefits to plants humans and livestock The content and quality of information presented in this book will definitely provide multiple novel ideas of advance techniques and will stimulate innovative thoughts and directions amongst researchers and policy makers in the field of biofortification In addition the contributions presented in the book will be a good source of background knowledge and technical know how to educate the readers about biofortification The authors hope that the book entitled Biofortification of Food Crops would provide a suitable platform in our collective efforts for an appropriate dialogue among the scientists researchers entrepreneurs policy makers and farmers in reducing the budding issues of malnutrition through novel approaches and means

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