

Regulation of chloroplast
differentiation: Proceedings of an
International Meeting on the
Regulation of Chloroplast
Differentiation, held in Rhodes,
Greece, July 14-20, 1985 (Plant
biology)

G. Akoyunoglou

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Regulation Of Chloroplast Differentiation Plant Biology Volume 2

**Vijay Kumar Dalal, Amarendra Narayan
Misra**



Regulation Of Chloroplast Differentiation Plant Biology Volume 2:

Regulation of Atmospheric CO₂ and O₂ by Photosynthetic Carbon Metabolism N. Edward Tolbert, Jack Preiss, 1994 This volume is an essential addition to the libraries of researchers interested in the greenhouse effect and problems arising from increasing levels of atmospheric carbon dioxide The work covers both the effects on plants and photosynthetic productivity and alternatively the role of plants in regulating the chemical balance of the atmosphere Contributors evaluate recent research and review many aspects of photosynthetic carbon metabolism explored over the past 40 years Topics include the geochemistry of the environment photorespiration and respiration concentrating processes and other key issues The book provides critical background material for researchers in a number of fields including geochemistry evolution and paleobotany plant physiology and biochemistry environmental science and ecology

Structure and Function of Chloroplasts - Volume II Hongbo Gao, Jürgen Soll, Rebecca L. Roston, Yan Lu, Luning Liu, 2021-01-11 Dr Deqiang Duanmu based at Huazhong Agricultural University in China is collaborating with Dr Gao Dr Soll Dr Roston Dr Lu and Dr Liu as an editorial assistant in this Research Topic

Progress in Photosynthesis Research J. Biggins, 2013-11-21 These Proceedings comprise the majority of the scientific contributions that were presented at the VIIth International Congress on Photosynthesis The Congress was held August 10-15 1986 in Providence Rhode Island USA on the campus of Brown University and was the first in the series to be held on the North American continent Despite the greater average travel distances involved the Congress was attended by over 1000 active participants of whom 25% were registered students This was gratifying and indicated that photosynthesis will be well served by excellent young scientists in the future As was the case for the VIth International Congress held in Brussels articles for these Proceedings were delivered camera ready to expedite rapid publication In editing the volumes it was interesting to reflect on the impact that the recent advances in structure and molecular biology had in this Congress It is clear that cognizance of structure and molecular genetics will be even more necessary in the design of experiments and the direction of future research

Gamete Research ,1987

Journal of Electron Microscopy Technique ,1987

Cell Organelles Reinhold G. Herrmann, 2012-12-06 The compartmentation of genetic information is a fundamental feature of the eukaryotic cell The metabolic capacity of a eukaryotic plant cell and the steps leading to it are overwhelmingly an endeavour of a joint genetic cooperation between nucleus cytosol plastids and mitochondria Alteration of the genetic material in anyone of these compartments or exchange of organelles between species can seriously affect harmoniously balanced growth of an organism Although the biological significance of this genetic design has been vividly evident since the discovery of non Mendelian inheritance by Baur and Correns at the beginning of this century and became indisputable in principle after Renner's work on interspecific nuclear plastid hybrids summarized in his classical article in 1934 studies on the genetics of organelles have long suffered from the lack of respectability Non Mendelian inheritance was considered a research sideline if not a freak by most geneticists which

becomes evident when one consults common textbooks For instance these have usually impeccable accounts of photosynthetic and respiratory energy conversion in chloroplasts and mitochondria of metabolism and global circulation of the biological key elements C N and S as well as of the organization maintenance and function of nuclear genetic information In contrast the heredity and molecular biology of organelles are generally treated as an adjunct and neither goes as far as to describe the impact of the integrated genetic system

Discoveries In Plant Biology (Volume Iii) Shain-dow Kung,Shang-fa Yang,2000-06-12 Scientific progress hinges on continual discovery and the extension of previous discoveries The important series of volumes Discoveries in Plant Biology is specially compiled to provide a microcosmic atlas of the landmark discoveries that span the breadth of plant biology Written by renowned plant biologists the papers describe how classic discoveries were made and how they have served as the basis for subsequent breakthroughs The 24 chapters in this third volume describe discoveries which contribute to the foundations of modern plant biology The contributors many of whom personally lit the way bring readers back in time as if on a journey to retrace the paths and rethink the ideas they followed These guided tours on how to decipher the natural laws will lead to an appreciation of the development of each field from simple concepts to an advanced multidisciplinary field of today This volume will be of special interest to botanists biochemists plant physiologists and geneticists and of general interest to those who are still fascinated by how discoveries are made

Soviet Plant Physiology,1991 *Chloroplast Biogenesis and Plastid Interconversions* Vijay Kumar Dalal,Amarendra Narayan Misra,2025-09-26 This edited book covers the latest developments surrounding plastids with a focus on chloroplasts and their inter conversions to other plastids namely chromoplasts gerontoplasts and leucoplasts Chloroplasts convert solar energy into biologically useful forms of energy by performing photosynthesis The parts of plants above ground contain green tissues that house chloroplasts one of several types of plastids which are the main sites of photosynthesis in eukaryotic cells The book focuses on what chloroplasts are their biogenesis and degradation constituents thylakoids and assembly of thylakoids functions their inter conversions and their effects on biomass production and yield among other topics It discusses how chloroplasts form from proplastids primarily found in meristematic tissues present in shoot apical and auxiliary meristems in dicots and in the leaf base in monocots Additionally chloroplasts produce various molecules of human interest that can be converted into biochemical factories through transgenic approaches which are also discussed The content is supported with figures offering a more comprehensive understanding of the topics covered making the information more accessible and engaging for readers This book is suitable for students researchers and scientists working in chloroplast leucoplast gerontoplast chromoplast biogenesis and photosynthesis as it covers the latest findings in addition to the currently established notions

The Molecular Biology of Plastids Indra Vasil,2012-12-02 The Molecular Biology of Plastids Cell Culture and Somatic Cell Genetics of Plants Volume 7A deals with various aspects of plastid nucleic acid and protein metabolism This book is organized into 10 chapters Chapter 1 provides the introduction to the molecular

biology of plastids followed by a discussion of the maps of restriction endonuclease sites on chloroplast chromosomes in Chapter 2 Chapter 3 focuses on chloroplast gene transmission while Chapters 4 to 7 describe the apparatus for nucleic acid and protein metabolism and how some transcripts of chloroplast genes are processed The ribosomal proteins ribosomes and translation in plastids are covered in Chapter 8 The last two chapters consider the organization operation and transport of polypeptides through the outer plastid membranes This volume is a good reference for plant molecular biologist genetic engineers and researchers conducting work on the molecular biology of chloroplasts

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