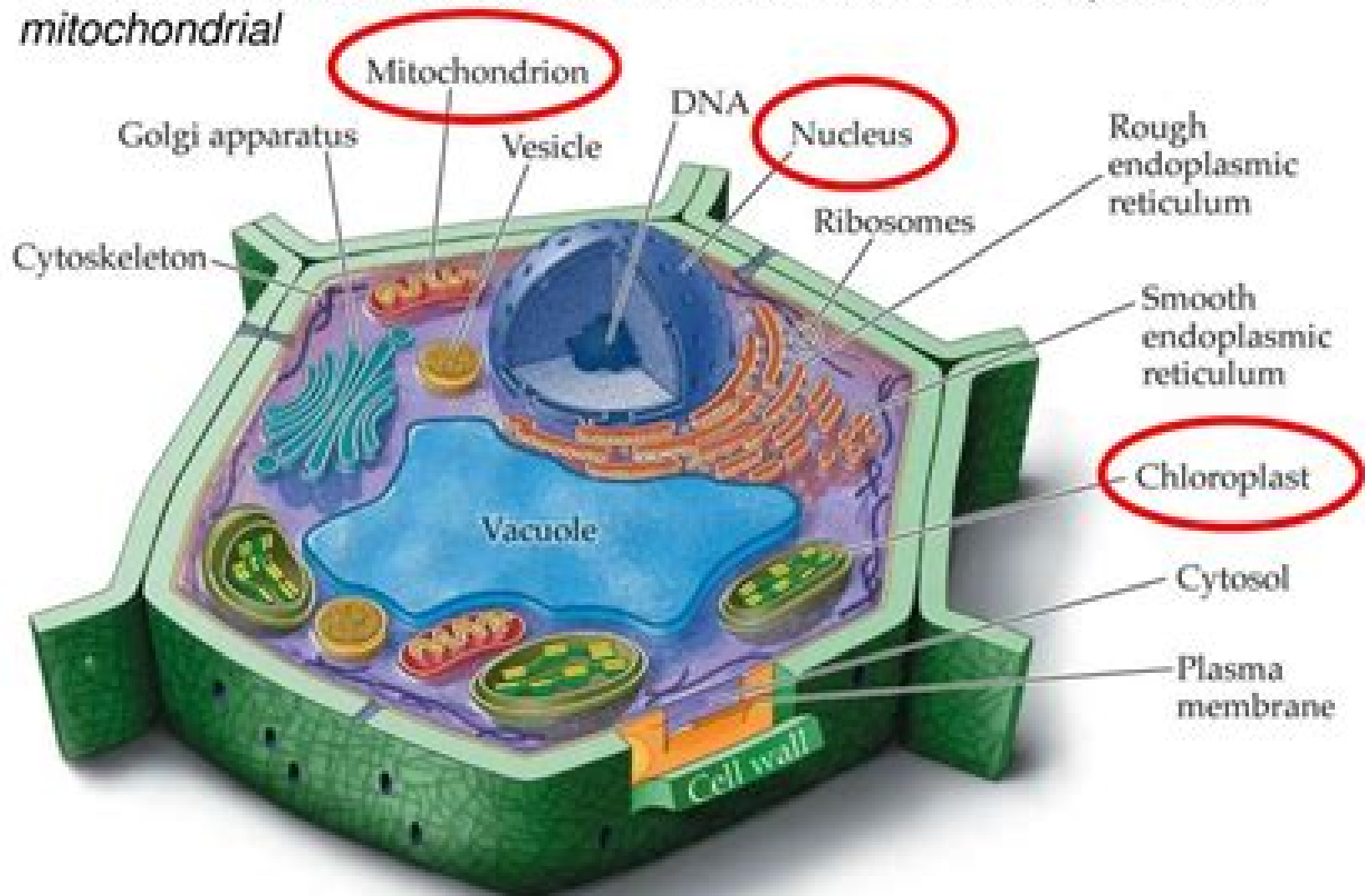


Plants cells contain three distinct sets of DNA: *nuclear*, *plastidic*, *mitochondrial*



Nucleic Acids In Plants

Timothy C. Hall



Nucleic Acids In Plants:

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Nucleic Acids In Plants Timothy C. Hall, 2018-05-04 Our ambition in the organization of this book was to explore the current status of knowledge about nucleic acids in plants We wanted the reader to be able to learn how this research is being undertaken Therefore we asked the contributing authors to include details of approaches and methods Where feasible they have provided protocols that can be followed by those who wish to repeat results extend data make improvements or use them in new applications

Nucleic Acids in Plants, 1979 **Nucleic Acids and Proteins in Plants II** Benno Parthier, Donald Boulter, 2012-12-06 With contributions by numerous experts **Nucleic Acids and Protein Synthesis in Plants** L. Bogorad, 2012-12-06 During the summer of 1974 we discussed the state of molecular biology and biochemical developmental biology in plants on a few occasions in Paris and in Strasbourg The number of laboratories engaged in such research is minute compared with those studying comparable problems in animal and bacterial systems but by then much interesting work had been done and a great momentum was building It seemed to us that the summer of 1976 would be a good time to review these areas of plant biology for students as well as advanced workers We outlined a program for a course to colleagues both in Europe and the United States and asked a few potential lecturers if they would be interested The response was not just positive it was overwhelmingly enthusiastic Those who had some acquaintance with Alsace and especially with Strasbourg invariably told us that they had two reasons for being enthusiastic about participating the subject and the proposed site The lectures published here reflect the diversity of current research in plant molecular biology and biochemical developmental biology Each lecture gives us a glimpse of the depth of questions being asked and sometimes answered in segments of this field of investigation This research is directed at fundamental biological problems but answers to these questions will provide knowledge essential for bringing about major changes in the way the world's agricultural enterprise can be improved

Nucleic Acids and Proteins in Plants I D. Boulter, 2011-12-06 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

Nucleic Acids and Proteins in Plants D. Boulter, Benno Parthier, 1982 Part 2 Volume 14B **Plant Cell Biology** Randy O. Wayne, 2018-11-13 Plant Cell Biology Second Edition From Astronomy to Zoology connects the fundamentals of plant anatomy plant physiology plant growth and development plant taxonomy plant biochemistry plant molecular biology and plant cell biology It covers all aspects of plant cell biology without emphasizing any one plant organelle molecule or technique Although most examples are biased towards plants basic similarities between all living eukaryotic cells animal and plant are recognized and used to best illustrate cell processes This is a must have reference for scientists with a background in plant anatomy plant physiology plant growth and development plant taxonomy and more Includes chapter on using mutants and genetic approaches to plant cell biology research and a chapter on omic technologies Explains the physiological underpinnings of biological processes to bring original insights relating to plants Includes examples throughout from physics chemistry geology and biology to bring understanding on plant cell development growth chemistry and diseases Provides the essential tools for students to be able to evaluate and assess the mechanisms involved in cell growth chromosome motion membrane trafficking and energy exchange

Proteins and Nucleic Acids in Plant Systematics U. Jensen, D.E. Fairbrothers, 2012-12-06 **Proteins and Nucleic Acids** Abraham Marcus, 2014-05-10 The Biochemistry of Plants A Comprehensive Treatise Volume 6 Proteins and Nucleic Acids provides information pertinent to the nucleic acids and the regulation of the expression of this information This book presents the processes by which the nucleic acids are finally expressed as proteins Organized into 14 chapters this volume begins with an overview of the overall structure of eukaryotic genomes with emphasis on higher plant DNA This text then examines the enzymes involved in the cleavage and degradation of DNA Other chapters provide a critical assessment of eukaryotic nucleic acid polymerases This book discusses as well some examples from plant mitochondrial systems The final chapter deals with two special areas of plant biology where the expression of the nucleic acids is seen in striking relief the formation of plant tumors and the growth and expression of plant viruses This book is a valuable resource for plant biochemists molecular biologists senior graduate students and research workers

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