

13.4 Gene Regulation and Expression

Lesson Objectives

- Describe gene regulation in prokaryotes.
- Explain how most eukaryotic genes are regulated.
- Relate gene regulation to development in multicellular organisms.

Lesson Summary

Prokaryotic Gene Regulation Prokaryotes do not need to transcribe all of their genes at the same time. They can conserve energy and resources by regulating their activities, producing only those genes necessary for the cell to function. In prokaryotes, DNA-binding proteins regulate genes by controlling transcription. An **operon** is a group of genes that are regulated together. An example is the *lac* operon in the bacterium *E. coli*:

- ▶ This group of three genes must be turned on together before the bacterium can use lactose as food.
- ▶ When lactose is not present, the DNA-binding protein called *lac* repressor binds to a region called the **operator**, which switches the *lac* operon off.
- ▶ When lactose binds to the repressor, it causes the repressor to fall off the operator, turning the operon on.

Eukaryotic Gene Regulation Transcription factors are DNA-binding proteins. They control the expression of genes in eukaryotes by binding DNA sequences in the regulatory regions. Gene promoters have multiple binding sites for transcription factors, each of which can influence transcription.

- ▶ Complex gene regulation in eukaryotes makes cell specialization possible.
- ▶ The process by which microRNA (miRNA) molecules stop mRNA molecules from passing on their protein-making instructions is **RNA interference (RNAi)**.
- ▶ RNAi technology holds the promise of allowing scientists to turn off the expression of genes from viruses and cancer cells, and it may provide new ways to treat and perhaps even cure diseases.

Genetic Control of Development Regulating gene expression is especially important in shaping the way a multicellular organism develops. Gene regulation helps cells undergo **differentiation**, becoming specialized in structure and function. Master control genes are like switches that trigger particular patterns of development and differentiation in cells and tissues.

- ▶ **Homeotic genes** are master control genes that regulate organs that develop in specific parts of the body.
- ▶ **Homeobox genes** share a similar 180-base DNA sequence called homeobox. They code for transcription factors that activate other genes that are important in cell development and differentiation in certain regions of the body.
- ▶ **Hox genes** are a group of homeobox genes that tell the cells of the body how to differentiate as the body grows.

Environmental factors can also affect gene expression.

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Mark Steyvers



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Index Medicus ,2001

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Plant Molecular Biology Manual S.B. Gelvin,R.A.

Schilperoort,2013-03-09 Plant Molecular Biology Manual Second Edition is an entirely new manual containing both fundamental and recently described techniques in the area of plant molecular biology Designed for use in the research laboratory the Plant Molecular Biology Manual presents detailed techniques in the areas of plant transformation recombinant DNA and other nucleic acid manipulations nuclear run on and in vitro transcription systems in situ hybridization and immunodetection systems protein nucleic acid interaction analyses subcellular targeting of proteins in the plant cell and gene tagging using T DNA and transposons This second edition contains more than 40 newly written chapters including descriptions of subjects such as virus mediated gene transfer specialized Agrobacterium strains and T DNA vectors nuclear run on and in vitro transcription systems non radioactive detection systems characterization of transcription factors nuclear protein targeting and T DNA and transposon mutagenesis not previously described in the first edition

Environmental Challenges and Medicinal Plants Tariq Aftab,2022-04-19 Medicinal plants supply the ever growing needs of humankind for natural chemicals such as pharmaceuticals nutraceuticals agrochemicals and chemical additives These plants contain bioactive secondary metabolites which possess antimalarial anthelmintic anti inflammatory analgesic antimicrobial antiarthritic antioxidant antidiabetic antihypertensive anticancer antifungal antispasmodic cardioprotective antithyroid and antihistaminic properties Secondary metabolites play a major role in the adaptation of plants to the changing environment and stress condition as they are affected by both biotic and abiotic stress Humans rely on medicinal plants for various needs since ancient time and their population still seems enough for fulfilling our demands However in the foreseeable future we will be forced to think about the accessibility of resources for future generations For these reasons we must look for alternative sustainable options of resources which can protect these immensely important medicinal plants from various stresses induced by challenging environment Evolving eco friendly methodologies and mechanisms to improve these plants responses to unfavorable environmental circumstances is important in creating significant tools for better understanding of plant adaptations to various abiotic stresses and sustaining the supply of pharmaceuticals as global climate change intensifies One of the great challenges in the near future will be the sustainable production of medicinal plants under increasing adverse effects of climate change A combination of adverse demographic factors and climatological perturbations is expected to impact food and pharmaceutical production globally Despite the induction of several tolerance mechanisms medicinal plants often fail to survive under environmental extremes To ensure their sustainable production under adverse conditions multidisciplinary approaches are needed and useful leads are likely to emerge However improving plants performance under restrictive growth conditions requires a deep understanding of the molecular processes that underlie their extraordinary physiological plasticity This edited volume emphasizes the recent updates about the current research on

medicinal plants covering different aspects related to challenges and opportunities in the concerned field This book is an attempt to bring together global researchers who have been engaged in the area of stress signaling crosstalk and mechanisms of medicinal plants The book will provide a direction towards implementation of programs and practices that will enable sustainable production of medicinal plants resilient to challenging environmental conditions Moreover this book will instigate and commence readers to state of the art developments and trends in this field

C4 Photosynthesis and Related CO₂ Concentrating Mechanisms Agepati S. Raghavendra, Rowan F. Sage, 2010-10-20 The C₄ pathway of photosynthesis was discovered and characterized more than four decades ago Interest in C₄ pathway has been sustained and has recently been boosted with the discovery of single cell C₄ photosynthesis and the successful introduction of key C₄ cycle enzymes in important crops such as rice Further cold tolerant C₄ plants are at the verge of intense exploitation as energy crops Rapid and multidisciplinary progress in our understanding of C₄ plants warrants a comprehensive documentation of the available literature The book which is a state of the art overview of several basic and applied aspects of C₄ plants will not only provide a ready source of information but also triggers further research on C₄ photosynthesis Written by internationally acclaimed experts it provides an authoritative source of progress made in our knowledge of C₄ plants with emphasis on physiology biochemistry molecular biology biogeography evolution besides bioengineering C₄ rice and biofuels The book is an advanced level textbook for postgraduate students and a reference book for researchers in the areas of plant biology cell biology biotechnology agronomy horticulture ecology and evolution

Essentials of Molecular Biology George M. Malacinski, 2003 Focuses on the fundamental aspects of molecular structure and function by reviewing key features and along the way capsulizing them as a series of concise concepts Users are encouraged to place the essential knowledge of molecular biology into broad contexts and develop both academic and personal meaning for this discipline

Brenner and Rector's The Kidney E-Book Maarten W. Taal, Glenn M. Chertow, Philip A. Marsden, Karl Skorecki, Alan S. L. Yu, Barry M. Brenner, 2011-11-01 Overcome the toughest clinical challenges in nephrology with the new 9th edition of Brenner Rector's The Kidney A brand new editorial team of Drs Maarten W Taal Glenn M Chertow Philip A Marsden Karl Skorecki Alan S L Yu and Barry M Brenner together with a diverse list of international contributors bring you the latest knowledge and best practices on every front in nephrology worldwide Brand new sections on Global Considerations in Nephrology and Pediatric Nephrology as well as new chapters on recent clinical trials cardiovascular and renal risk prediction in chronic kidney disease identification of genetic causes of kidney disease and many others keep you at the forefront of this rapidly growing ever changing specialty Brenner Rector remains the go to resource for practicing and training nephrologists and internists who wish to master basic science pathophysiology and clinical best practices Broaden your knowledge base with expert dependable comprehensive answers for every stage of your career from the most comprehensive definitive clinical reference in the field Prepare for certification or recertification with a review of the basic science that underpins clinical nephrology as

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Omics Solutions for Endocrine Disorders Anna Halama, Stephen Atkin, 2022-07-18 *AIDS Bibliography*, 1990 **Reproductive Medicine** Sulbha Arora, 2014-02-28 Reproductive Medicine Challenges Solutions and Breakthroughs is a comprehensive guide to the diagnosis and management of infertility Beginning with basic evaluation techniques the following chapters discuss different aspects of infertility treatment including assisted reproductive technology techniques pre implantation genetic diagnosis male infertility ultrasonography and batch IVF With contributions from recognised experts through the USA Canada and Europe the book includes numerous clinical photographs diagrams and tables making it an invaluable reference for both infertility specialists and trainees in reproductive medicine Key points Comprehensive guide to diagnosis and management in infertility Covers all aspects of fertility treatment Contributions from internationally recognised experts Includes numerous clinical photographs diagrams and tables

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