

Ap Biology Chapter 15 Regulation Of Gene Expression

ap biology chapter 15 regulation of gene expression: *Biology for AP® Courses* Julianne Zedalis, John Eggebrecht, 2017-10-16 Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board's AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

ap biology chapter 15 regulation of gene expression: *Calcium Entry Channels in Non-Excitable Cells* Juliusz Ashot Kozak, James W. Putney, Jr., 2017-07-14 Calcium Entry Channels in Non-Excitable Cells focuses on methods of investigating the structure and function of non-voltage gated calcium channels. Each chapter presents important discoveries in calcium entry pathways, specifically dealing with the molecular identification of store-operated calcium channels which were reviewed by earlier volumes in the Methods in Signal Transduction series. Crystallographic and pharmacological approaches to the study of calcium channels of epithelial cells are also discussed. Calcium ion is a messenger in most cell types. Whereas voltage gated calcium channels have been studied extensively, the non-voltage gated calcium entry channel genes have only been identified relatively recently. The book will fill this important niche.

ap biology chapter 15 regulation of gene expression: *Epigenetic Gene Expression and Regulation* Suming Huang, Michael D. Litt, C. Ann Blakey, 2015-10-19 Epigenetic Gene Expression and Regulation reviews current knowledge on the heritable molecular mechanisms that regulate gene expression, contribute to disease susceptibility, and point to potential treatment in future therapies. The book shows how these heritable mechanisms allow individual cells to establish stable and unique patterns of gene expression that can be passed through cell divisions without DNA mutations, thereby establishing how different heritable patterns of gene regulation control cell differentiation and organogenesis, resulting in a distinct human organism with a variety of differing cellular functions and tissues. The work begins with basic biology, encompasses methods, cellular and tissue organization, topical issues in epigenetic evolution and environmental epigenesis, and lastly clinical disease discovery and treatment. Each highly illustrated chapter is organized to briefly summarize current research, provide appropriate pedagogical guidance, pertinent methods, relevant model organisms, and clinical examples. - Reviews current knowledge on the heritable molecular mechanisms that regulate gene expression, contribute to disease susceptibility, and point to potential treatment in future therapies - Helps readers understand how epigenetic marks are targeted, and to what extent transgenerational epigenetic changes are instilled and possibly passed onto offspring - Chapters are replete with clinical examples to empower the basic biology with translational significance - Offers more than 100 illustrations to distill key concepts and decipher complex science

ap biology chapter 15 regulation of gene expression: *Transcriptional Control of Neural Crest Development* Brian L. Nelms, Patricia A. Labosky, 2010 The neural crest is a remarkable embryonic population of cells found only in vertebrates and has the potential to give rise to many different cell types contributing throughout the body. These derivatives range from the mesenchymal bone and cartilage comprising the facial skeleton, to neuronal derivatives of the peripheral sensory and autonomic nervous systems, to melanocytes throughout the body, and to

smooth muscle of the great arteries of the heart. For these cells to correctly progress from an unspecified, nonmigratory population to a wide array of dynamic, differentiated cell types-some of which retain stem cell characteristics presumably to replenish these derivatives-requires a complex network of molecular switches to control the gene programs giving these cells their defining structural, enzymatic, migratory, and signaling capacities. This review will bring together current knowledge of neural crest-specific transcription factors governing these progressions throughout the course of development. A more thorough understanding of the mechanisms of transcriptional control in differentiation will aid in strategies designed to push undifferentiated cells toward a particular lineage, and unraveling these processes will help toward reprogramming cells from a differentiated to a more naive state. Table of Contents: Introduction / AP Genes / bHLH Genes / ETS Genes / Fox Genes / Homeobox Genes / Hox Genes / Lim Genes / Pax Genes / POU Domain Genes / RAR/RXR Genes / Smad Genes / Sox Genes / Zinc Finger Genes / Other Miscellaneous Genes / References / Author Biographies

ap biology chapter 15 regulation of gene expression: *Chromatin Regulation and Dynamics* Anita Göndör, 2016-10-25 Chromatin Regulation and Dynamics integrates knowledge on the dynamic regulation of primary chromatin fiber with the 3D nuclear architecture, then connects related processes to circadian regulation of cellular metabolic states, representing a paradigm of adaptation to environmental changes. The final chapters discuss the many ways chromatin dynamics can synergize to fundamentally contribute to the development of complex diseases. Chromatin dynamics, which is strategically positioned at the gene-environment interface, is at the core of disease development. As such, Chromatin Regulation and Dynamics, part of the Translational Epigenetics series, facilitates the flow of information between research areas such as chromatin regulation, developmental biology, and epidemiology by focusing on recent findings of the fast-moving field of chromatin regulation. - Presents and discusses novel principles of chromatin regulation and dynamics with a cross-disciplinary perspective - Promotes crosstalk between basic sciences and their applications in medicine - Provides a framework for future studies on complex diseases by integrating various aspects of chromatin biology with cellular metabolic states, with an emphasis on the dynamic nature of chromatin and stochastic principles - Integrates knowledge on the dynamic regulation of primary chromatin fiber with 3D nuclear architecture, then connects related processes to circadian regulation of cellular metabolic states, representing a paradigm of adaptation to environmental changes

ap biology chapter 15 regulation of gene expression: *Human Herpesviruses* Ann Arvin, Gabriella Campadelli-Fiume, Edward Mocarski, Patrick S. Moore, Bernard Roizman, Richard Whitley, Koichi Yamanishi, 2007-08-16 This comprehensive account of the human herpesviruses provides an encyclopedic overview of their basic virology and clinical manifestations. This group of viruses includes human simplex type 1 and 2, Epstein-Barr virus, Kaposi's Sarcoma-associated herpesvirus, cytomegalovirus, HHV6A, 6B and 7, and varicella-zoster virus. The viral diseases and cancers they cause are significant and often recurrent. Their prevalence in the developed world accounts for a major burden of disease, and as a result there is a great deal of research into the pathophysiology of infection and immunobiology. Another important area covered within this volume concerns antiviral therapy and the development of vaccines. All these aspects are covered in depth, both scientifically and in terms of clinical guidelines for patient care. The text is illustrated generously throughout and is fully referenced to the latest research and developments.

ap biology chapter 15 regulation of gene expression: *Untranslated Gene Regions and Other Non-coding Elements* Lucy W. Barrett, Sue Fletcher, Steve D. Wilton, 2013-06-26 There is now compelling evidence that the complexity of higher organisms correlates with the relative amount of non-coding RNA rather than the number of protein-coding genes. Previously dismissed as "junk DNA", it is the non-coding regions of the genome that are responsible for regulation, facilitating complex temporal and spatial gene expression through the combinatorial effect of numerous mechanisms and interactions working together to fine-tune gene expression. The major regions involved in regulation of a particular gene are the 5' and 3' untranslated regions and introns.

In addition, pervasive transcription of complex genomes produces a variety of non-coding transcripts that interact with these regions and contribute to regulation. This book discusses recent insights into the regulatory roles of the untranslated gene regions and non-coding RNAs in the control of complex gene expression, as well as the implications of this in terms of organism complexity and evolution.

ap biology chapter 15 regulation of gene expression: Epigenetics and Chromatin

Philippe Jeanteur, 2008-09-10 Epigenetics refers to heritable patterns of gene expression which do not depend on alterations of genomic DNA sequence. This book provides a state-of-the-art account of a few selected hot spots by scientists at the edge in this extremely active field. It puts special emphasis on two main streams of research. One is the role of post-translational modifications of proteins, mostly histones, on chromatin structure and accessibility. The other one deals with parental genomic imprinting, a process which allows to express a few selected genes from only one of the parental allele while extinguishing the other.

ap biology chapter 15 regulation of gene expression: Anatomy of Gene Regulation

Panagiotis A. Tsonis, 2003-01-13 No longer simple line drawings on a page, molecular structures can now be viewed in full-figured glory, often in color and even with interactive possibilities. *Anatomy of Gene Regulation* is the first book to present the parts and processes of gene regulation at the three-dimensional level. Vivid structures of nucleic acids and their companion proteins are revealed in full-color, three-dimensional form. Beginning with a general introduction to three-dimensional structures, the book looks at the organization of the genome, the structure of DNA, DNA replication and transcription, splicing, protein synthesis, and ultimate protein death. Throughout, the text employs a discussion of genetics and structural mechanics. The concise and unique synthesis of information will offer insight into gene regulation, and into the development of methods to interfere with regulation at diseased states. This textbook and its accompanying web site are appropriate for both undergraduate and graduate students in genetics, molecular biology, structural biology, and biochemistry courses.

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Epstein, B. G. Achong, 2012-12-06 The Epstein-Barr virus was discovered 15 years ago. Since that time an immense body of information has been accumulated on this agent which has come to assume great significance in many different fields of biological science. Thus, the virus has very special relevance in human medicine and oncology, in tumor virology, in immunology, and in molecular virology, since it is the cause of infectious mononucleosis and also the first human cancer virus, etiologically related to endemic Burkitt's lymphoma and probably to nasopharyngeal carcinoma. In addition, continuous human lymphoid cell lines initiated and maintained by the transforming function of the virus genome provide a laboratory tool with wide and ever-growing applications. Innumerable papers on the Epstein-Barr virus have appeared over recent years and reports of work with this agent now constitute a veritable flood. The present book provides the first and only comprehensive, authoritative over-view of all aspects of the virus by authors who have been the original and major contributors in their particular disciplines. A complete and up-to-date survey of this unique and important agent is thus provided which should be of great interest to experts, teachers, and students engaged in cancer research, virology, immunology, molecular biology, epidemiology, and cell culture. Where topics have been dealt with from more than one of these viewpoints, some inevitable overlap and duplication has resulted; although this has been kept to a minimum, it has been retained in some places because of positive usefulness.

ap biology chapter 15 regulation of gene expression: Preparing for the Biology AP Exam

Neil A. Campbell, Jane B. Reece, Fred W. Holtzclaw, Theresa Knapp Holtzclaw, 2009-11-03 Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource

to help your students prepare for the AP Exam. Completely revised to match the new 8th edition of Biology by Campbell and Reece. New Must Know sections in each chapter focus student attention on major concepts. Study tips, information organization ideas and misconception warnings are interwoven throughout. New section reviewing the 12 required AP labs. Sample practice exams. The secret to success on the AP Biology exam is to understand what you must know and these experienced AP teachers will guide your students toward top scores!

ap biology chapter 15 regulation of gene expression: Biology for the AP® Course James Morris, Domenic Castignetti, John Lepri, Rick Relyea, Melissa Michael, Andrew Berry, Andrew Biewener, 2022-02-18 Explore Biology for the AP® Course, a textbook program designed expressly for AP® teachers and students by veteran AP® educators. Biology for the AP® Course provides content organized into modules aligned to the CED, AP® skill-building instruction and practice, stunning visuals, and much more.

ap biology chapter 15 regulation of gene expression: Epigenetic Mechanisms of Gene Regulation Vincenzo E. A. Russo, Robert A. Martienssen, Arthur D. Riggs, 1996 Many inheritable changes in gene function are not explained by changes in the DNA sequence. Such epigenetic mechanisms are known to influence gene function in most complex organisms and include effects such as transposon function, chromosome imprinting, yeast mating type switching and telomeric silencing. In recent years, epigenetic effects have become a major focus of research activity. This monograph, edited by three well-known biologists from different specialties, is the first to review and synthesize what is known about these effects across all species, particularly from a molecular perspective, and will be of interest to everyone in the fields of molecular biology and genetics.

ap biology chapter 15 regulation of gene expression: Barron's AP Biology Deborah T. Goldberg, 2017-08-30 Barron's AP Biology is one of the most popular test preparation guides around and a "must-have" manual for success on the Biology AP Test. In this updated book, test takers will find: Two full-length exams that follow the content and style of the new AP exam All test questions answered and explained An extensive review covering all AP test topics Hundreds of additional multiple-choice and free-response practice questions with answer explanations This manual can be purchased alone, or with an optional CD-ROM that includes two additional practice tests with answers and automatic scoring

ap biology chapter 15 regulation of gene expression: Toxoplasma Gondii Louis M. Weiss, 2013-08-10 This 2e of *Toxoplasma gondii* reflects the significant advances in the field in the last 5 years, including new information on the genomics, epigenomics and proteomics of *T. gondii* as well as a new understanding of the population biology and genetic diversity of this organism. *T. gondii* remains the best model system for studying the entire Apicomplexa group of protozoans, which includes Malaria, making this new edition essential for a broad group of researchers and scientists. Toxoplasmosis is caused by a one-celled protozoan parasite known as *T. gondii*. The infection produces a wide range of clinical syndromes in humans, land and sea mammals, and various bird species. Most humans contract toxoplasmosis by eating contaminated, raw or undercooked meat (particularly pork), vegetables, or milk products; by coming into contact with the *T. gondii* eggs from cat feces; or by drinking contaminated water. The parasite damages the ocular and central nervous systems, causing behavioral and personality alterations as well as fatal necrotizing encephalitis. It is especially dangerous for the fetus of an infected pregnant woman and for individuals with compromised immune systems, such as HIV-infected patients. - Completely updated, the 2e presents recent advances driven by new information on the genetics and genomics of the pathogen - Provides the latest information concerning the epidemiology, diagnosis, treatment and prevention of toxoplasmosis - Offers a single-source reference for a wide range of scientists and physicians working with this pathogen, including parasitologists, cell and molecular biologists, veterinarians, neuroscientists, physicians, and food scientists

ap biology chapter 15 regulation of gene expression: Ubiquitin and the Biology of the Cell Jan-Michael Peters, J. Robin Harris, Daniel Finley, 1998-05-31 The last several years have been a landmark period in the ubiquitin field. The breadth of ubiquitin's roles in cell biology was first

sketched, and the importance of ubiquitin-dependent proteolysis as a regulatory mechanism gained general acceptance. The many strands of work that led to this new perception are recounted in this book. A consequence of this progress is that the field has grown dramatically since the first book on ubiquitin was published almost a decade ago [M. Rechsteiner (ed.), *Ubiquitin*, Plenum Press, 1988]. In this span, students of the cell cycle, transcription, signal transduction, protein sorting, neuropathology, cancer, virology, and immunology have attempted to chart the role of ubiquitin in their particular experimental systems, and this integration of the field into cell biology as a whole continues at a remarkable pace. We hope that for active researchers in the field as well as for newcomers and those on the fence, this book will prove helpful for its breadth, historical perspective, and practical tips. Structural data are now available on many of the components of the ubiquitin pathway. The structures have provided basic insights into the unusual biochemical mechanisms of ubiquitination and proteasome-mediated proteolysis. Because high-speed computer graphics can convey structures more effectively than print media, we have supplemented the figures of the book with a Worldwide Web site that can display the structures in a flexible, viewer-controlled format.

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ap biology chapter 15 regulation of gene expression: *Gene Regulation* David Latchman, 2007-01-25 Gene regulation is an essential process in the development and maintenance of a healthy body, and as such, is a central focus in both basic science and medical research. *Gene Regulation*, Fifth Edition provides the student and researcher with a clear, up-to-date description of gene regulation in eukaryotes, distilling the vast and complex primary literature into a concise overview.

ap biology chapter 15 regulation of gene expression: Translational Control of Gene Expression Nahum Sonenberg, John W. B. Hershey, Michael B. Mathews, 2001 Since the 1996 publication of *Translational Control*, there has been fresh interest in protein synthesis and recognition of the key role of translation control mechanisms in regulating gene expression. This new monograph updates and expands the scope of the earlier book but it also takes a fresh look at the field. In a new format, the first eight chapters provide broad overviews, while each of the

additional twenty-eight has a focus on a research topic of more specific interest. The result is a thoroughly up-to-date account of initiation, elongation, and termination of translation, control mechanisms in development in response to extracellular stimuli, and the effects on the translation machinery of virus infection and disease. This book is essential reading for students entering the field and an invaluable resource for investigators of gene expression and its control.

ap biology chapter 15 regulation of gene expression: Cancer Genomics for the Clinician

Ramaswamy Govindan, MD, Siddhartha Devarakonda, MD, 2019-01-28 Cancer Genomics for the Clinician is a practical guide to cancer genomics and its application to cancer diagnosis and care. The book begins with a brief overview of the various types of genetic alterations that are encountered in cancer, followed by accessible and applicable information on next generation sequencing technology and bioinformatics; tumor heterogeneity; whole genome, exome, and transcriptome sequencing; epigenomics; and data analysis and interpretation. Each chapter provides essential explanations of concepts, terminology, and methods. Also included are tips for interpreting and analyzing molecular data, as well as a discussion of molecular predictors for targeted therapies covering hematologic malignancies and solid tumors. The final chapter explains the use of FDA-approved genomic-based targeted therapies for breast cancer, lung cancer, sarcomas, gastrointestinal cancers, urologic cancers, head and neck cancer, thyroid cancer, and many more. Assembled in an accessible format specifically designed for the non-expert, this book provides the clinical oncologist, early career practitioner, and trainee with an essential understanding of the molecular and genetic basis of cancer and the clinical aspects that have led to advancements in diagnosis and treatment. With this resource, physicians and trainees will increase their breadth of knowledge and be better equipped to educate patients and families who want to know more about their genetic predispositions to cancer and the targeted therapies that could be considered and prescribed. Key Features: Describes how cancer genomics and next generation sequencing informs cancer screening, risk factors, therapeutic options, and clinical management across cancer types Explains what mutations are, what tests are needed, and how to interpret the results Provides information on FDA-approved targeted therapies that are being used in the clinic Covers different sequencing platforms and technologies and how they perform in research settings Includes access to the fully searchable eBook

ap biology chapter 15 regulation of gene expression: Campbell Biology, Books a la

Carte Edition Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Jane B. Reece, Peter V. Minorsky, 2016-10-27 NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. The Eleventh Edition of the best-selling text Campbell BIOLOGY sets you on the path to success in biology through its clear and engaging narrative, superior skills instruction, and innovative use of art, photos, and fully integrated media resources to enhance teaching and learning. To engage you in developing a deeper understanding of biology, the Eleventh Edition challenges you to apply knowledge and skills to a variety of NEW! hands-on activities and exercises in the text and online. NEW! Problem-Solving Exercises challenge you to apply scientific skills and interpret data in the context of solving a real-world problem. NEW! Visualizing Figures and Visual Skills Questions provide practice interpreting and creating visual representations in biology. NEW! Content updates throughout the text reflect rapidly evolving research in the fields of genomics, gene editing technology (CRISPR), microbiomes, the impacts of climate change across the biological hierarchy, and more. Significant revisions have been made to Unit 8, Ecology, including a deeper integration of evolutionary principles. NEW! A virtual layer to the print text incorporates media references into the printed text to direct you towards content in the Study Area and eText that will help you prepare for class and succeed in exams--Videos, Animations, Get Ready for This Chapter, Figure Walkthroughs, Vocabulary Self-Quizzes, Practice Tests, MP3 Tutors, and Interviews. (Coming summer 2017). NEW! QR codes and URLs within the Chapter Review provide easy access to Vocabulary Self-Quizzes and Practice Tests for each chapter that can be used on smartphones, tablets, and computers.

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ap biology chapter 15 regulation of gene expression: Epigenetic Contributions in Autoimmune Disease Esteban Ballestar, 2011-08-23 This volume focuses on the relevance of epigenetic mechanisms in autoimmune disease. It provides new directions for future research in autoimmune disease.

ap biology chapter 15 regulation of gene expression: Transcription Ronald C. Conaway, Joan Weliky Conaway, 1994 Presents a coherent account of many productive lines of investigation, organized as a series of mini-reviews that focus on major research areas including studies on the structure and mechanisms of action of bacterial, viral, and eukaryotic RNA polymerases, and the transcription factors that control their activities. Each review provides a brief but up-to-date account of the progress of research in a particular area, a discussion of the major issues and questions driving that research, and a brief description of the evolving approaches and technologies used to address those questions. Annotation copyright by Book News, Inc., Portland, OR

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ap biology chapter 15 regulation of gene expression: Plant Systems Biology Sacha Baginsky, Alisdair R. Fernie, 2007-06-25 This volume aims to provide a timely view of the state-of-the-art in systems biology. The editors take the opportunity to define systems biology as they and the contributing authors see it, and this will lay the groundwork for future studies. The volume is well-suited to both students and researchers interested in the methods of systems biology. Although the focus is on plant systems biology, the proposed material could be suitably applied to any organism.

ap biology chapter 15 regulation of gene expression: Cell Cycle Regulation Philipp Kaldis, 2006-06-26 This book is a state-of-the-art summary of the latest achievements in cell cycle

control research with an outlook on the effect of these findings on cancer research. The chapters are written by internationally leading experts in the field. They provide an updated view on how the cell cycle is regulated in vivo, and about the involvement of cell cycle regulators in cancer.

ap biology chapter 15 regulation of gene expression: *The Embryonic Development of Drosophila melanogaster* Jose A. Campos-Ortega, Volker Hartenstein, 2013-03-09 . . . but our knowledge is so weak that no philosopher will ever be able to completely explore the nature of even a fly . . . * Thomas Aquinas In *Synbolum Apostolorum* 079 RSV p/96 This is a monograph on embryogenesis of the fruit fly *Drosophila melanogaster* conceived as a reference book on morphology of embryonic development. A monograph of this extent and content is not yet available in the literature of *Drosophila* embryology, and we believe that there is a real need for it. Thanks to the progress achieved during the last ten years in the fields of developmental and molecular genetics, work on *Drosophila* development has considerably expanded creating an even greater need for the information that we present here. Our own interest for wildtype embryonic development arose several years ago, when we began to study the development of mutants. While those studies were going on we repeatedly had occasion to state insufficiencies in the existing literature about the embryology of the wildtype, so that we undertook investigating many of these problems by ourselves. Convinced that several of our colleagues will have encountered similar difficulties we decided to publish the present monograph. Although not expressly recorded, Thomas Aquinas probably referred to the domestic fly and not to the fruit fly. Irrespective of which fly he meant, however, we know that Thomas was right in any case.

ap biology chapter 15 regulation of gene expression: *Textbook of Medical Biochemistry* MN Chatterjee, Rana Shinde, 2011-10 The eighth edition of *Textbook of Medical Biochemistry* provides a concise, comprehensive overview of biochemistry, with a clinical approach to understand disease processes. Beginning with an introduction to cell biology, the book continues with an analysis of biomolecule chemistry, molecular biology and metabolism, as well as chapters on diet and nutrition, biochemistry of cancer and AIDS, and environmental biochemistry. Each chapter includes numerous images, multiple choice and essay-style questions, as well as highlighted text to help students remember the key points.

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ap biology chapter 15 regulation of gene expression: Post-Transcriptional Gene Regulation Erik Dassi, 2022-11-09 This volume presents the most recent advances in techniques for studying the post-transcriptional regulation of gene expression (PTR). With sections on bioinformatics approaches, expression profiling, the protein and RNA interactome, the mRNA lifecycle, and RNA modifications, the book guides molecular biologists toward harnessing the power of this new generation of techniques, while also introducing the data analysis skills that these high-throughput techniques require. Written for the highly successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and up-to-date, *Post-Transcriptional Gene Regulation, Third Edition* serves as a versatile resource for researchers studying post-transcriptional regulation by both introducing the most recent techniques and providing a comprehensive guide to their implementation. Chapter 6 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

ap biology chapter 15 regulation of gene expression: Cellular Ecophysiology of Microbe Tino Krell, 2018-03-24 This book assembles concisely written chapters by world-leaders in the field summarizing recent advances in understanding microbial responses to hydrocarbons. Subjects treated include mechanisms of sensing, hydrocarbon tolerance and degradation as well as an overview on hydrophobic modification of biomolecules. Other chapters are dedicated to issues

related to the reduced bioavailability of hydrocarbons, which differentiates this class of compounds from many others, but which is of central importance to understand the ecophysiological consequences. This book should be standard literature in any laboratory working in this area.

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