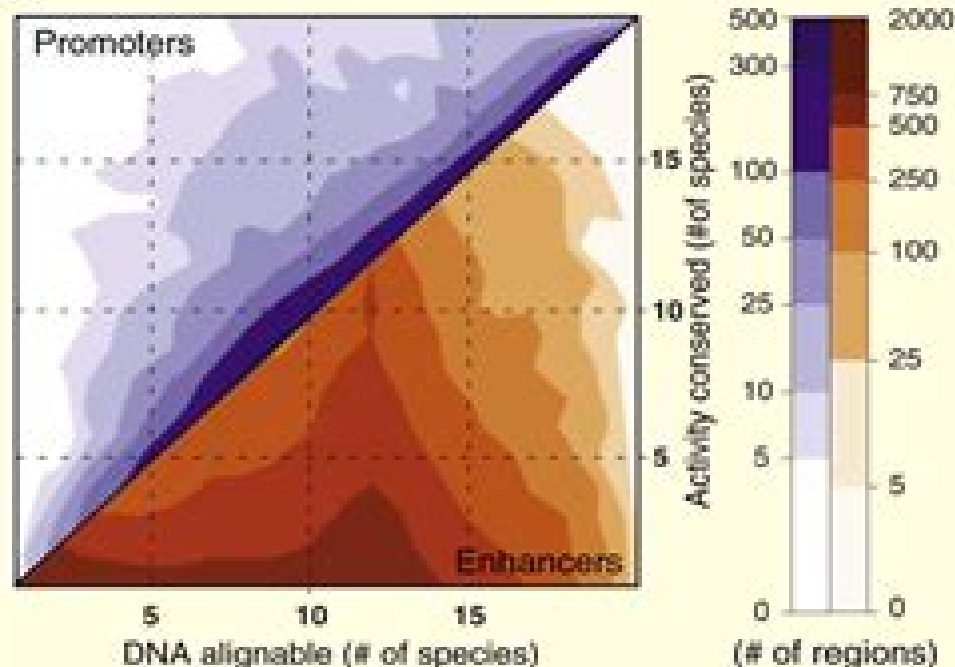


A**B**

Recently evolved enhancers

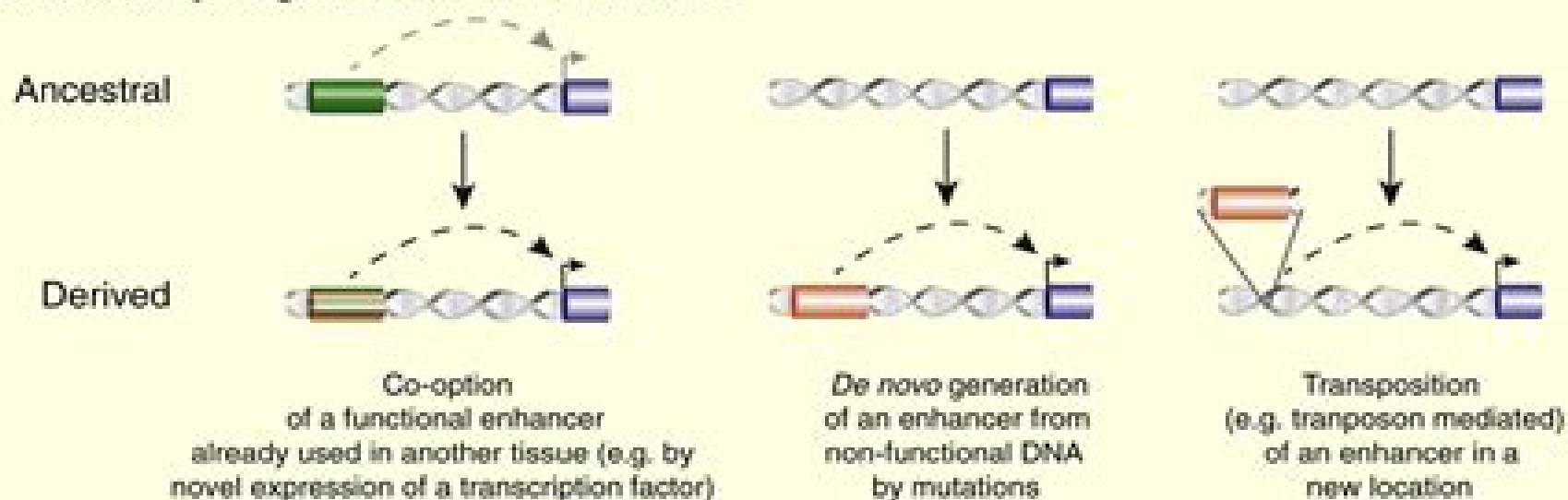
- Mostly exapted from ancient DNA sequence (by e.g. co-option or *de novo* generation)
- Those in younger DNA are often enriched for transposable elements
- 50% of each species' enhancers
- Associate with genes under positive selection

Recently evolved promoters

- Mostly observed in species-specific non-conserved DNA sequences
- 10–15% of each species' promoters

C

Evolutionary origins of novel enhancers



Evolutionary Tinkering In Gene Expression

Sylvain Marcellini, Hector Escriva



Evolutionary Tinkering In Gene Expression:

Evolutionary Tinkering in Gene Expression M. Grunberg-Manago, 2013-03-09 The Workshop on Evolutionary Tinkering in Gene Expression which was held at the end of August 1988 was planned to celebrate 20 successful Advanced Study Institutes A S I in Molecular and Cell Biology The first Institute was held in 1966 on the Island of Spetsai after a N A T O suggestion and was entirely financed by N A T O The success was immediately so great that the Institute grew very rapidly and in the following years N A T O E M B O since 1972 and F E B S since 1981 co sponsored it Since the start of the ASI the U S National Science Foundation has granted travel money for a limited number of American participants each year In addition the course was supported by minor industrial subsidies of varying amounts which enabled the organizers to improve some of the local facilities particularly with respect to the lecture hall In particular Boehringer Mannheim has contributed since 1966 Furthermore the Greek Ministry of Science and Culture has provided support at least for a social event during each ASI

Evolutionary Tinkering in Gene Expression M Grunberg-Manago, 1989-08-01 **Long-Range Control of Gene Expression** Veronica van Heyningen, Robert E Hill, 2011-09-02 Long Range Control of Gene Expression covers the current progress in understanding the mechanisms for genomic control of gene expression which has grown considerably in the last few years as insight into genome organization and chromatin regulation has advanced Discusses the evolution of cis regulatory sequences in drosophila Includes information on genomic imprinting and imprinting defects in humans Includes a chapter on epigenetic gene regulation in cancer Gene Sharing and Evolution Joram PIATIGORSKY, Joram Piatigorsky, 2009-06-30 In Gene Sharing and Evolution Piatigorsky explores the generality and implications of gene sharing throughout evolution and argues that most if not all proteins perform a variety of functions in the same and in different species and that this is a fundamental necessity for evolution **Evolution of Organismal Form: From Regulatory**

Interactions to Developmental Processes and Biological Patterns Sylvain Marcellini, Hector Escriva, 2017-02-14 Today s biodiversity is the spectacular product of hundreds of millions of years of evolution Understanding how this diversity of living organisms appeared is one of the most intriguing and challenging question in biology Because organismal morphology is established during embryonic development and because morphological traits diversified from ancestral forms during evolution it can be inferred that changes in the mechanisms controlling embryonic development are instrumental for morphological evolution This syllogism lies at the very heart of a new discipline called Evo Devo which is centered in the identification of the cellular and genetic mechanisms that through modifications in developmental programmes were at the base of morphological innovations during evolution After the discovery of the broad conservation of gene content and regulatory networks in the animal kingdom as well as in plants Evo Devo is orienting towards the study of differences through experimental and functional approaches Given the wide range of species gene families and developmental processes considered a concerted effort is still required to shed light on the genetic cellular and molecular mechanisms involved in

phenotypic evolution It is a particularly exciting time for this field of evolutionary developmental biology as the advent of novel imaging genome editing and sequencing technologies allows the study of almost any organism in ways that were unthinkable only a few years ago Therefore the aim of this Frontiers Research Topic is to gather an original collection of experimental approaches concepts and hypotheses reflecting the current diversity of the Evo Devo field We have organized the articles according to the mechanistic depth with which they tackle specific evolutionary issues Hence comparisons of expression patterns have been grouped in Chapter 1 changes in regulatory interactions and gene networks are presented in Chapter 2 while Chapter 3 focuses on the evolution of developmental processes and biological patterns

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1993 Gene Expression in Algae and Fungi Including Yeast Robert D. Warmbrodt,1991 NASA Technical Memorandum ,1991 **Relentless Evolution** John N. Thompson,2013-04-15 At a glance most species seem adapted to the environment in which they live Yet species relentlessly evolve and populations within species evolve in different ways Evolution as it turns out is much more dynamic than biologists realized just a few decades ago In Relentless Evolution John N Thompson explores why adaptive evolution never ceases and why natural selection acts on species in so many different ways Thompson presents a view of life in which ongoing evolution is essential and inevitable Each chapter focuses on one of the major problems in adaptive evolution How fast is evolution How strong is natural selection How do species co opt the genomes of other species as they adapt Why does adaptive evolution sometimes lead to more rather than less genetic variation within populations How does the process of adaptation drive the evolution of new species How does coevolution among species continually reshape the web of life And more generally how are our views of adaptive evolution changing Relentless Evolution draws on studies of all the major forms of life from microbes that evolve in microcosms within a few weeks to plants and animals that sometimes evolve in detectable ways within a few decades It shows evolution not as a slow and stately process but rather as a continual and sometimes frenetic process that favors yet more evolutionary change Genome Evolution Axel Meyer,Yves van de Peer,2011-06-28 In the years since the publication of Susumu Ohno s 1970 landmark book Evolution by gene duplication tremendous advances have been made in molecular biology and especially in genomics Studies of genome structure and function prerequisite to testing hypotheses of genome evolution were all but impossible until recent methodological advances This book evaluates newly generated empirical evidence as it pertains to theories of genomic evolutionary patterns and processes Tests of hypotheses using analyses of complete genomes interpreted in a phylogenetic context provide evidence regarding the relative importance of gene duplication The alternative explanation is that the evolution of regulatory elements that control the expression of and interactions among genes has been a more important force in shaping evolutionary innovation This collection of papers will be of interest to all academic and industry researchers working in the fields of molecular biology biotechnology genomics and genome centers

Publications of the Exobiology Program for 1989 ,1991 **Current**

Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 **The Epistemology of Development, Evolution, and Genetics** Richard Burian,2005 These essays examine the developments in three fundamental biological disciplines embryology evolutionary biology and genetics These disciplines were in conflict for much of the 20th century and the essays in this collection examine key methodological problems within these disciplines and the difficulties faced in overcoming the conflicts between them Burian skillfully weaves together historical appreciation of the settings within which scientists work substantial knowledge of the biological problems at stake and the methodological and philosophical issues faced in integrating biological knowledge drawn from disparate sources **Vascular Endothelium** J. Catravas,2013-06-29 Beyond their obvious role of a barrier between blood and tissue vascular endothelial cells are now firmly established as active and essential participants in a host of crucial physiological and pathophysiological functions Probably the two most important factors responsible for promoting the current knowledge of endothelial functions are 1 observations in the late sixties early seventies that many non ventilatory properties of the lung could be attributed to the pulmonary endothelium and 2 the establishment in the early and mid seventies of procedures for routine culture of vascular endothelial cells Many of these endothelial functions require the presence of receptors on the surface of the plasma membrane There is now evidence for the existence among others of muscarinic a and 3 adrenergic purine insulin histamine bradykinin lipoprotein thrombin paf fibronectin vitronectin interleukin and albumin receptors For some of these ligands there is evidence only for the existence of endothelial binding sites Traditionally agonist binding must elicit a response for the binding site to be considered a receptor and in some cases the nature of the response resulting from the interaction of a substance with the endothelium remains unclear It is beyond the scope of this introduction to even enumerate the various endothelial homeostatic processes This monograph contains the proceedings of the Advanced Studies Institute on Vascular Endothelium Receptors and Transduction Mechanisms held in Porto Carras Greece from June 18 29 1988 **International Review of Cytology** David R. Wolstenholme,K.W. Jeon,1993-01-11 International Review of Cytology **Physiology of Cold Adaptation in Birds** Claus Bech,Randi Eidsmo Reinertsen,2014-11-14 Workshop held June 1988 Thirty nine contributions treat the central mechanisms of thermoregulation heat production metabolic adaptations respiration and circulation physiology of hypometabolism breeding and incubation and adaptations to cold in chicks Annotation copyright Book News Inc Portland Or **Cell and Molecular Biology of Artemia Development** A. Warner,2013-06-29 The brine shrimp *Artemia* has become an important experimental system for studies of the developmental process In recent years the shrimp has yielded considerable information on the pattern of development bio chemistry and gene structure and expression of crustaceans This book is a compilation of research activity from twenty five of the most active re search laboratories working with brine shrimp in the above areas It also represents the proceedings of a NATO Advanced Research Workshop held in Montreal Canada August 11 13 1988 The book contains twenty nine full papers covering the major areas discussed at the

workshop In addition one page abstracts representing seventeen poster presentations which were given at the workshop and which were deemed to be most relevant to the theme of the book are included These are designated with an al in the Table of Contents following the title of each paper A considerable amount of discussion which took place during the workshop has not been included in the book because of space limitations However the editors will endeavour to make some of this information available at a later date through the Artemia Newsletter In addition to the high percentage of invited speakers who attended and contributed to the workshop the organizers would like to thank a number of participants who made valuable contributions to the major discussion sessions These include John Freeman Michael Horst Herman Slegers Jack Vaughn Frank Conte Sandy McLennan Clive Trotman and Patrick Sorgeloos Encyclopedia of Evolutionary Biology ,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

The Genetic Gods John C. Avise,2009-06-30 They mastermind our lives shaping our features our health and our behavior even in the sacrosanct realms of love and sex religion aging and death Yet we are the ones who house perpetuate and give the promise of immortality to these biological agents our genetic gods The link between genes and gods is hardly arbitrary as the distinguished evolutionary geneticist John Avise reveals in this compelling book In clear straightforward terms Avise reviews recent discoveries in molecular biology evolutionary genetics and human genetic engineering and discusses the relevance of these findings to issues of ultimate concern traditionally reserved for mythology theology and religious faith The book explains how the genetic gods figure in our development not just our metabolism and physiology but even our emotional disposition personality ethical leanings and indeed religiosity Yet genes are physical rather than metaphysical entities Having arisen via an amoral evolutionary process natural selection genes have no consciousness no sentient code of conduct no reflective concern about the consequences of their actions It is Avise's contention that current genetic knowledge can inform

our attempts to answer typically religious questions about origins fate and meaning The Genetic Gods challenges us to make the necessary connection between what we know what we believe and what we embody Table of Contents Preface Prologue 1 The Doctrines of Biological Science 2 Geneses 3 Genetic Maladies 4 Genetic Beneficence 5 Strategies of the Genes 6 Genetic Sovereignty 7 New Lords of Our Genes 8 Meaning Epilogue Notes Glossary Index Reviews of this book Our genes Avise says are responsible not only for how we got here and exist day to day but also for the core of our being our personalities and morals It is our genetic make up that allows for and formulates our religious belief systems he argues Avise does not eschew spirituality but seeks a more informed less confrontational approach between science and the pulpit Science News Reviews of this book For the general scientific reader the book is an excellent distillation of a broad and increasingly important field a course of causation that cannot be ignored From advising expectant parents to getting innocent people off death row genetics increasingly dominates our lives The sections on genetics are expertly written particularly for those readers without in depth knowledge The author explains slowly and carefully just how genetics operates using multiple metaphors His genetic discourse proceeds in a neighborly fashion as one might tell stories while sitting in a rocking chair at a country store He seems to be invigorated by genes and just can't wait to tell about them David W Hodo Journal of the American Medical Association Reviews of this book As a whole this book is quite informative and stimulating and sections of it are beautifully written Indeed Professor Avise has a real gift for prose and scientific expositions and I would suspect that he must be a formidable lecturer At its core The Genetic Gods is a survey and a very nice one at that of evolutionary genetics the field of the author's major research interests There is a strong sociobiological cast to the arguments and the work and ideas of E O Wilson figure prominently The presentation of evolutionary genetics is imbedded in a more general discussion of modern human and molecular genetics However this book is most of all a philosophical treatise that attempts admittedly with the bias of a biologist to examine the intersection of the fundamental premises of evolution and religion Professor Avise has given us plenty to think about in this book and it was a real pleasure to wrestle with the ideas he was presenting I would suggest that other readers give it a try Charles J Epstein Trends in Genetics Reviews of this book Avise's account of the role genes play in shaping the human condition is wholly involving paying particular attention to issues of reproduction aging and death In addition to presenting ample biological information in a form accessible to the nonspecialist Avise does a superb job of discussing many of the ethical implications that have arisen from our growing knowledge of human genetics Just a few of the topics covered are genetic engineering the patenting of life genetic screening abortion human cloning gene therapy and insurance related controversies Publishers Weekly Reviews of this book Avise explains thoroughly how evolution operates on a genetic level His goal is to show that humans can look to this information as a way to answer fundamental questions of life instead of looking to traditional religious beliefs Avise includes some very interesting discussions of ethical concerns related to genetic issues Eric D Albright Library Journal This is a splendid account of a subject that affects us all the breathtaking

increase in understanding of human genetics and the insight it provides into human evolution John Avise speaks with authority of molecular evolutionary genetics and with affecting compassion of what it might mean Douglas J Futuyma State University of New York at Stony Brook The Genetic Gods is many things It is a wonderful introduction to modern molecular biology by a man who knows his subject backwards It is a stimulating account of the ways in which genetics impinges on human nature our thinking and our behavior It is a remarkably level headed and sympathetic account of the implications of our new findings for traditional and not so traditional issues in philosophy and religion In an age of genetic counseling cloning construction of new life forms the book is worth its weight in gold for this alone But most of all it is a huge amount of fun to read you want to applaud or argue with the author on nigh every page Highly recommended Michael Ruse University of Guelph The Genetic Gods makes a valuable contribution to the on going task of sorting out the implications of evolutionary biology and genetics for human self understanding Avise addresses with authority and grace the most consequential intellectual issues of our time A challenging and insightful book Loyal Rue Harvard University A wonderfully informative and engaging book Avise offers a lucid accessible primer on our genes angelic and demonic and examines religious and ethical issues all too human now confronted by genetic science He makes a compelling case that anyone seeking to Know Thyself should study the DNA molecular scriptures our most ancient and universal legacy Dudley Herschbach Harvard University Nobel Laureate in Chemistry Tinkering Gregory R. Bock, Jamie A. Goode, 2007-06-13 Much recent research in evolutionary developmental biology has focused on the origin of new body plans However most evolutionary change at the population and species level consists of tinkering small scale alterations in developmental pathways within a single body plan Such microevolutionary events have been well studied on a population genetic level and from the perspective of adaptive phenotypic evolution but their developmental mechanisms remain poorly studied This book explores both theoretical and practical issues of tinkering It features a wide range of perspectives to address several fundamental questions How does tinkering occur developmentally and how is it manifested phenotypically Are the developmental mechanisms by which tinkering occur different from those that underlie larger evolutionary changes What are the developmental constraints on tinkering And how do we test hypotheses about microevolutionary shifts in development from the fossil record With contributions from experts in a range of fields this fascinating book makes exciting reading for anyone studying evolution developmental biology or genetics

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Evolutionary Tinkering In Gene Expression Introduction

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