

The Inconstant Gene

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The Inconstant Gene:

The Inconstant Gene Lawrence Dillon, 2013-11-11 Why should the gene be suggested to be inconstant when the contrary view that gene structure is invariant except through mutagenic processes induced by potent external factors has long been a universal doctrine of genetics Indeed during the early part of the present century before mutation was recognized as being of general occurrence the seeming unvarying nature of the gene led to skepticism regarding the validity of the evolutionary theory only later could the origins of the morphological differences between individuals and species be attributed to a combination of mutation and evolution involving natural forces selecting between favorable and unfavorable genetic changes But during the past several decades as knowledge of the macromolecular constitution of organisms has increased to the point where even the primary structures of the genes themselves are being revealed on a routine basis it has become increasingly difficult to ascribe all the resulting observations to ordinary mutagenesis and natural selection Some more profound mechanism often seems to be present that influences both the constancy and inconstancy of the genes an apparatus whose existence this study hopes to reveal In seeking to demonstrate the universality of this mechanism data are sought through the numerous activities of organisms of many types wherever gene action changes are manifest *The Gene*

Lawrence S. Dillon, 2013-06-29 **A Bibliographical Monograph on Plant Genetics (genetic Analysis) 1900-1925**

Hajime Matsuura, 1929 *The Spirit in the Gene* Reg Morrison, 1999 From famines and deforestation to water pollution global warming and the rapid rate of extinction of plants and animals the extent of the global damage wrought by humankind is staggering Why have we allowed our environment to reach such a crisis What produced the catastrophic population explosion that so taxes the earth's resources Reg Morrison's search for answers led him to ponder our species astonishing evolutionary success His extraordinary book describes how a spiritual outlook combined with a capacity for rational thought have enabled Homo sapiens to prosper through the millennia It convincingly depicts these traits as part of our genetic makeup and as the likely cause of our ultimate downfall against the inexorable laws of nature The book will change the way readers think about human evolution and the fate of our species Small bands of apes walked erect on the dangerous plains of East Africa several million years ago Morrison marvels that they not only survived but migrated to all corners of the earth and established civilizations To understand this feat he takes us back to a critical moment when these hominids developed language and with it the unique ability to think abstractly He shows how at this same time they began to derive increasing advantage from their growing sense of spirituality He convincingly depicts spirituality as an evolutionary strategy that helped rescue our ancestors from extinction and drive the species toward global dominance Morrison concludes that this genetically productive spirituality which has influenced every aspect of our lives has led us to overpopulate the world and to devastate our own habitats Sobering sometimes chilling consistently fascinating his book offers a startling new view of human adaptation running its natural course *In Pursuit of the Gene* James Schwartz, 2010-03-30 The mystery of inheritance has

captivated thinkers since antiquity and the unlocking of this mystery the development of classical genetics is one of humanity's greatest achievements This great scientific and human drama is the story told fully and for the first time in this book Acclaimed science writer James Schwartz presents the history of genetics through the eyes of a dozen or so central players beginning with Charles Darwin and ending with Nobel laureate Hermann J Muller In tracing the emerging idea of the gene Schwartz deconstructs many often told stories that were meant to reflect glory on the participants and finds that the official version of discovery often hides a far more complex and illuminating narrative The discovery of the structure of DNA and the more recent advances in genome science represent the culmination of one hundred years of concentrated inquiry into the nature of the gene Schwartz's multifaceted training as a mathematician geneticist and writer enables him to provide a remarkably lucid account of the development of the central ideas about heredity and at the same time bring to life the brilliant and often eccentric individuals who shaped these ideas In the spirit of the late Stephen Jay Gould this book offers a thoroughly engaging story about one of the oldest and most controversial fields of scientific inquiry It offers readers the background they need to understand the latest findings in genetics and those still to come in the search for the genetic basis of complex diseases and traits

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1983 **Systems and Development** Megan R. Gunnar, Esther Thelen, 2014-01-14 This volume covers the 22nd Annual Minnesota Symposia on Child Psychology The theme of the conference was the use of a systematic approach to the study of development An analysis of systems theory its applications to the study of development its benefits and its drawbacks are considered The contributors among the leaders in this field discuss the application of systems concepts to the analysis of core issues in areas as diverse as motor and social development **Current Catalog** National Library of Medicine (U.S.),1983 First multi year cumulation covers six years 1965-70 Evolution's Eye Susan Oyama, 2000-05-03 In recent decades Susan Oyama and her colleagues in the burgeoning field of developmental systems theory have rejected the determinism inherent in the nature nurture debate arguing that behavior cannot be reduced to distinct biological or environmental causes In Evolution's Eye Oyama elaborates on her pioneering work on developmental systems by spelling out that work's implications for the fields of evolutionary theory developmental and social psychology feminism and epistemology Her approach profoundly alters our understanding of the biological processes of development and evolution and the interrelationships between them While acknowledging that in an uncertain world it is easy to blame it on the genes Oyama claims that the renewed trend toward genetic determinism colors the way we think about everything from human evolution to sexual orientation and personal responsibility She presents instead a view that focuses on how a wide variety of developmental factors interact in the multileveled developmental systems that give rise to organisms Shifting attention away from genes and the environment as causes for behavior she convincingly shows the benefits that come from thinking about life processes in terms of developmental systems that produce sustain and change living beings over both developmental and

evolutionary time Providing a genuine alternative to genetic and environmental determinism as well as to unsuccessful compromises with which others have tried to replace them Evolution s Eye will fascinate students and scholars who work in the fields of evolution psychology human biology and philosophy of science Feminists and others who seek a more complex view of human nature will find her work especially congenial

A Primer of Molecular Population Genetics Asher D. Cutter, 2019-06-06 What are the genomic signatures of adaptations in DNA How often does natural selection dictate changes to DNA How does the ebb and flow in the abundance of individuals over time get marked onto chromosomes to record genetic history Molecular population genetics seeks to answer such questions by explaining genetic variation and molecular evolution from micro evolutionary principles It provides a way to learn about how evolution works and how it shapes species by incorporating molecular details of DNA as the heritable material It enables us to understand the logic of how mutations originate change in abundance in populations and become fixed as DNA sequence divergence between species With the revolutionary advances in genomic data acquisition understanding molecular population genetics is now a fundamental requirement for today s life scientists These concepts apply in analysis of personal genomics genome wide association studies landscape and conservation genetics forensics molecular anthropology and selection scans This book introduces in an accessible way the bare essentials of the theory and practice of molecular population genetics

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