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Fifty Years of Genetic Load: An Odyssey

Wallace, Bruce

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Fifty Years Of Genetic Load An Odyssey

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Fifty Years Of Genetic Load An Odyssey:

Fifty Years of Genetic Load Bruce Wallace, 1991 In this personal history one of the pioneers in population genetics recounts the evolution of his ideas about the effects of genetic variability on a population Tracing the results of successive experiments over the years it is like the author's career highly original *The Search for the Gene* Bruce Wallace, 2018-05-31 From Gregor Mendel's experiments on garden peas to the mammoth Human Genome Project of today how did we get where we are in the science of genetics In this intriguing book Bruce Wallace examines the concept of the gene and recounts the history of genetic research providing a concise transition from genetics to modern molecular biology

The Mermaid's Tale Kenneth M. Weiss, Anne V. Buchanan, 2009-02-15 While competitive natural selection is widely assumed to be evolution's prime mover Weiss shows how life generally works on the basis of cooperation He reveals that focus on competition and cooperation is largely an artifact of compression of time a distortion that dissolves when life is viewed from developmental and evolutionary time scales *National Library of Medicine Current Catalog* National Library of Medicine (U.S.), 1992 **The Development of Evolutionary Genetics** Prakash Gorroochurn, 2024-12-28 The book describes the historical development of evolutionary genetics starting from early ideas on evolution and ending with the modern synthesis It provides an extensive coverage of the history of both evolution and heredity and gives detailed descriptions of the works of Lamarck Darwin Mendel Nageli Weismann de Vries Galton Pearson Bateson Johanssen Morgan Fisher Wright and Haldane amongst many others The book does not deal only with a description of historical work it also analyses and critiques existing theories and evolutionary beliefs throughout history and discusses several controversies between biologists Genetic and Evolutionary Diversity Laurence Martin Cook, Robert S. Callow, 1999 Genetics and Evolutionary Diversity combines ideas generated in two previously separate areas of ecology and population genetics This concise book serves as an effective introduction to some of the pivotal of evolutionary biology The second edition is expanded to include both plants and animals Evolution and Selection of Quantitative Traits Bruce Walsh, Michael Lynch, 2018-06-21 Quantitative traits be they morphological or physiological characters aspects of behavior or genome level features such as the amount of RNA or protein expression for a specific gene usually show considerable variation within and among populations Quantitative genetics also referred to as the genetics of complex traits is the study of such characters and is based on mathematical models of evolution in which many genes influence the trait and in which non genetic factors may also be important Evolution and Selection of Quantitative Traits presents a holistic treatment of the subject showing the interplay between theory and data with extensive discussions on statistical issues relating to the estimation of the biologically relevant parameters for these models Quantitative genetics is viewed as the bridge between complex mathematical models of trait evolution and real world data and the authors have clearly framed their treatment as such This is the second volume in a planned trilogy that summarizes the modern field of quantitative genetics informed by empirical observations from wide

ranging fields agriculture evolution ecology and human biology as well as population genetics statistical theory mathematical modeling genetics and genomics Whilst volume 1 1998 dealt with the genetics of such traits the main focus of volume 2 is on their evolution with a special emphasis on detecting selection ranging from the use of genomic and historical data through to ecological field data and examining its consequences

A History of the Life Sciences, Revised and Expanded Lois N. Magner, 2002-08-13 A clear and concise survey of the major themes and theories embedded in the history of life science this book covers the development and significance of scientific methodologies the relationship between science and society and the diverse ideologies and current paradigms affecting the evolution and progression of biological studies The author d

Genetics of Natural Populations Louis Levine, 1995 A discussion of the life and work of Theodosius Dobzhansky and an assessment of the current research that has the origins in his findings and contributions

Molecular Markers, Natural History and Evolution J. C. Avise, 2012-12-06 Molecular approaches have opened new windows on a host of ecological and evolutionary disciplines ranging from population genetics and behavioral ecology to conservation biology and systematics Molecular Markers Natural History and Evolution summarizes the multi faceted discoveries about organisms in nature that have stemmed from analyses of genetic markers provided by polymorphic proteins and DNAs The first part of the book introduces rationales for the use of molecular markers provides a history of molecular phylogenetics and describes a wide variety of laboratory methods and interpretative tools in the field The second and major portion of the book provides a cornucopia of biological applications for molecular markers organized along a scale from micro evolutionary topics such as forensics parentage kinship population structure and intra specific phylogeny to macro evolutionary themes including species relationships and the deeper phylogenetic structure in the tree of life Unlike most prior books in molecular evolution the focus is on organismal natural history and evolution with the macromolecules being the means rather than the ends of scientific inquiry Written as an intellectual stimulus for the advanced undergraduate graduate student or the practicing biologist desiring a wellspring of research ideas at the interface of molecular and organismal biology this book presents material in a manner that is both technically straightforward yet rich with concepts and with empirical examples from the world of nature

The Counter-Creationism Handbook Mark Isaak, 2007-01-12 Those opposed to the teaching of evolution often make well rehearsed claims about science that sound powerful and convincing This work seeks to serve as a resource for addressing over 400 of the most prevalent claims made by creationists Each claim is followed by a scientifically valid rebuttal

The Adaptive Seascape David J. Merrell, 1994 Based on observational and experimental data in natural populations of plants and animals studied in the field and in the laboratory this perspective unravels the hidden and often poorly founded assumptions underlying some of the more troublesome controversies in evolutionary biology today

Perspectives on Genetics James Franklin Crow, William F. Dove, 2000 For more than ten years the distinguished geneticists James F Crow and William F Dove have edited the popular Perspectives column in Genetics the journal of the

Genetics Society of America This book *Perspectives on Genetics* collects more than 100 of these essays which cumulatively are a history of modern genetics research and its continuing evolution

The Historiography of Contemporary Science and Technology Thomas Söderquist, 2013-01-11 More than ninety percent of all scientific history has been made during the last half century So far however only a fraction of historical scholarship has dealt with this period Merely a decade ago most scientific historians considered recent science the scientific culture created lived and remembered by contemporary scientists an area of study best left to the historical actors themselves

Current Catalog National Library of Medicine (U.S.), 1992 First multi year cumulation covers six years 1965 70

Molecular Ecology and Evolution: Approaches and Applications B. Schierwater, B. Streit, G.P. Wagner, R. DeSalle, 2013-06-29 The past 25 years have witnessed a revolution in the way ecologists and evolutionary biologists approach their disciplines Modern molecular techniques are now reshaping the spectrum of questions that can be addressed while studying the mechanisms and consequences of the ecology and evolution of living organisms *Molecular Ecology and Evolution Approaches and Applications* describes from a molecular perspective several methodological and technical approaches used in the fields of ecology evolution population biology molecular systematics conservation genetics and development Modern techniques are introduced and older more classic ones refined The advantages limitations and potentials of each are discussed in detail and thereby illustrate the widening range of cross field research and applications which this modern technology is stimulating This book will serve as an important textbook for graduate and advanced undergraduate students and as a key reference work for researchers

Genetic and Evolutionary Diversity Dr Robert Callow, Dr Laurence M Cook, 2023-05-31 This book examines the causes of genetic diversity within and between populations species formation and multiplication and the association of species in communities It also discusses reproductive patterns in relation to the integrated control of breeding systems and chromosomes behaviour The ideas presented link fields of biology usually treated separately which are relevant to population genetic cytogenetic ecological and evolutionary studies This revised edition includes significant advances in the fields of plant genetics and cytogenetics and a greater emphasis on long term evolutionary processes

Evolutionary Biology Max K. Hecht, Ross J. MacIntyre, Michael T. Clegg, 2013-06-29 After volume 33 this book series was replaced by the journal *Evolutionary Biology* Please visit www.springer.com/11692 for further information Volume 30 brings readers up to date on the investigation of eminent evolutionary biologists and paleobiologists Contributions explore such topics as Adaptation in *Drosophila* and the role of cytochrome P450s Population genetics and species conservation of the cheetah germ layer theory asymmetry in the mammalian skeleton genetic diversity of marine fish the phenomenon of industrial melanism the variation in lizard cranial kinesis Other chapters focus on such issues as overdominance and its relation to higher mutation rate estimates and the use of molecular clocks in determining the rate of nucleotide substitution in higher plants

Playing God? John H. Evans, 2002-02 Technology evolves at a dazzling speed in the field of genetic engineering The public hasn't had much say in

advancements in human genetics This asks why and explores social forces leading to thinning out of public debate over genetic engineering *Evolutionary Genetics* R. S. Singh, Costas B. Krimbas, 2000-03-28 This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology

The Enigmatic Realm of **Fifty Years Of Genetic Load An Odyssey**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Fifty Years Of Genetic Load An Odyssey** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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