

POPULATION  
GENETICS,  
MOLECULAR  
EVOLUTION, AND  
THE NEUTRAL  
THEORY

*Selected Papers*



MOTOO KIMURA

*Edited and with an Introduction by*

NAOYUKI TAKAHATA

*With a Foreword by*

JAMES F. CROW

# Population Genetics Molecular Evolution And The Neutral Theory Selected Papers

**Motoo Kimura**



## **Population Genetics Molecular Evolution And The Neutral Theory Selected Papers:**

**Population Genetics, Molecular Evolution, and the Neutral Theory** Motoo Kimura, 1995-01-01 One of this century's leading evolutionary biologists Motoo Kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics This volume collects 57 of Kimura's most important papers and covers forty years of his diverse and original contributions to our understanding of how genetic variation affects evolutionary change Kimura's neutral theory first presented in 1968 challenged the notion that natural selection was the sole directive force in evolution Arguing that mutations and random drift account for variations at the level of DNA and amino acids Kimura advanced a theory of evolutionary change that was strongly challenged at first and that eventually earned the respect and interest of evolutionary biologists throughout the world This volume includes the seminal papers on the neutral theory as well as many others that cover such topics as population structure variable selection intensity the genetics of quantitative characters inbreeding systems and reversibility of changes by random drift Background essays by Naoyuki Takahata examine Kimura's work in relation to its effects and recent developments in each area Population

Genetics, Molecular Evolution, and the Neutral Theory Motoo Kimura, 1994 One of this century's leading evolutionary biologists Motoo Kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics This volume collects 57 of Kimura's most important papers and covers forty years of his diverse and original contributions to our understanding of how genetic variation affects evolutionary change Kimura's neutral theory first presented in 1968 challenged the notion that natural selection was the sole directive force in evolution Arguing that mutations and random drift account for variations at the level of DNA and amino acids Kimura advanced a theory of evolutionary change that was strongly challenged at first and that eventually earned the respect and interest of evolutionary biologists throughout the world This volume includes the seminal papers on the neutral theory as well as many others that cover such topics as population structure variable selection intensity the genetics of quantitative characters inbreeding systems and reversibility of changes by random drift Background essays by Naoyuki Takahata examine Kimura's work in relation to its effects and recent developments in each area **Selected Papers on Population Genetics**

**and Molecular Evolution** Motoo Kimura, 1988 One of this century's leading evolutionary biologists Motoo Kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics Unifying Biology Vassiliki Betty Smocovitis, 2020-11-10 Unifying Biology offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science the evolutionary synthesis of the 1930s and 1940s For more than seventy years after Darwin proposed his theory of evolution it was hotly debated by biological scientists It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists Using methods gleaned from a variety of disciplines Vassiliki

Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences. At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics they were according to the author also working together to establish an autonomous community of evolutionists. Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge. In developing her argument she pays close attention to the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science. Drawing from some of the most exciting recent approaches in science studies and cultural studies she argues that science is a culture complete with language rituals texts and practices. *Unifying Biology* offers not only its own new synthesis of the history of modern evolution but also a new way of doing history. — *A Century of Geneticists* Krishna Dronamraju, 2018-12-07

Genetics like all scientific disciplines is a human endeavor. Thus the lives of geneticists their friendships colleagues and associations play an important role in the historical development of the science. This book summarizes the history of genetics by reviewing the lives of the prominent and influential researchers beginning with the earliest and simplest branches of genetics studies of inheritance and mutation and ending with the human genome project the pinnacle of genetics research of the 20th century. Key selling features: Summarizes the lives of important genetics researchers. Reviews the development of important foundational concepts. Highlights the way new technologies and methods have advanced the study of genetics. Explores the influence of genetics in other biomedical fields. Avoids simplistic chronological summary of genetics.

**Encyclopedia of Genetics** Eric C.R. Reeve, 2014-01-14 The Encyclopedia includes 125 entries beginning with the origins of genetics including historical background on the work of Gregor Mendel and Charles Darwin and progressing to the structure of DNA and modern theories such as selfish genes. All branches of genetics are covered including the genetics of bacteria viruses insects animals and plants as well as humans. Important topical issues such as the human genome project bioethics the law and genetics genetic disorders GM crops and the use of transgenic animals for food and pharmaceutical products are fully surveyed. A section on techniques and biotechnology includes modern methods of analysis from DNA fingerprinting to the new science of bioinformatics. The articles all written by specialists are largely non mathematical and progress from general concepts to deeper understanding. Each essay is fully referenced with suggestions for further reading. The text is supplemented by extensive illustrations tables and a color plate section. The Encyclopedia of Genetics will be a valuable companion for all those working or studying in the various fields of genetical research and a fascinating reference for all readers with a basic background in biology. Also includes color inserts.

**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

**Philosophy of Biology**, 2007-02-05 Philosophy of Biology is a rapidly expanding field It is concerned with explanatory concepts in evolution genetics and ecology This collection of 25 essays by leading researchers provides an overview of the state of the field These essays are wholly new none of them could have been written even ten years ago They demonstrate how philosophical analysis has been able to contribute to sometimes contested areas of scientific theory making Written by internationally acknowledged leaders in the field Entries make original contributions as well as summarizing state of the art discoveries in the field Easy to read and understand

**Genetics of Populations**, Philip Hedrick, 2011-08-24 Preface Chapter 1 General Background and the Diversity of Genetic Variation Chapter 2 Measures of Genetic Variation Chapter 3 Selection Chapter 4 Genetic Drift and Effective Population Size Chapter 5 Mutation Chapter 6 Neutral Theory and Coalescence Chapter 7 Gene Flow and Population Structure Chapter 8 Inbreeding and Related Topics Chapter 9 Molecular Population Genetics and Evolution Bibliography Answers to Numerical Problems Index

*One-Locus and Multi-Locus Theory and Recombination* Igor M. Rouzine, 2020-11-23 The book will benefit a reader with a background in physical sciences and applied mathematics interested in the mathematical models of genetic evolution In the first chapter we analyze several thought experiments based on a basic model of stochastic evolution of a single genomic site in the presence of the factors of random mutation directional natural selection and random genetic drift In the second chapter we present a more advanced theory for a large number of linked loci In the third chapter we include the effect of genetic recombination into account and find out the advantage of sexual reproduction for adaptation These models are useful for the evolution of a broad range of asexual and sexual populations including virus evolution in a host and a host population

*Introduction to Bioinformatics* Stephen A. Krawetz, David D. Womble, 2003-01-31 CD ROM contains chapter illustrations full and trial versions of programs

*Statistical Methods in Molecular Evolution* Rasmus Nielsen, 2006-05-06 In the field of molecular evolution inferences about past evolutionary events are made using molecular data from currently living species With the availability of genomic data from multiple related species molecular evolution has

become one of the most active and fastest growing fields of study in genomics and bioinformatics. Most studies in molecular evolution rely heavily on statistical procedures based on stochastic process modelling and advanced computational methods including high dimensional numerical optimization and Markov Chain Monte Carlo. This book provides an overview of the statistical theory and methods used in studies of molecular evolution. It includes an introductory section suitable for readers that are new to the field, a section discussing practical methods for data analysis, and more specialized sections discussing specific models and addressing statistical issues relating to estimation and model choice. The chapters are written by the leaders of the field and they will take the reader from basic introductory material to the state of the art statistical methods. This book is suitable for statisticians seeking to learn more about applications in molecular evolution and molecular evolutionary biologists with an interest in learning more about the theory behind the statistical methods applied in the field. The chapters of the book assume no advanced mathematical skills beyond basic calculus, although familiarity with basic probability theory will help the reader. Most relevant statistical concepts are introduced in the book in the context of their application in molecular evolution, and the book should be accessible for most biology graduate students with an interest in quantitative methods and theory.

Rasmus Nielsen received his Ph.D. from the University of California at Berkeley in 1998 and after a postdoc at Harvard University, he assumed a faculty position in Statistical Genomics at Cornell University. He is currently an Ole Rømer Fellow at the University of Copenhagen and holds a Sloan Research Fellowship. He is an associate editor of the *Journal of Molecular Evolution* and has published more than fifty original papers in peer-reviewed journals on the topic of this book.

From the reviews: Overall, this is a very useful book in an area of increasing importance. *Journal of the Royal Statistical Society*. I find *Statistical Methods in Molecular Evolution* very interesting and useful. It delves into problems that were considered very difficult just several years ago; the book is likely to stimulate the interest of statisticians that are unaware of this exciting field of applications. It is my hope that it will also help the wet lab molecular evolutionist to better understand mathematical and statistical methods. *Marek Kimmel for the Journal of the American Statistical Association*, September 2006.

Who should read this book? We suggest that anyone who deals with molecular data, who does not, and anyone who asks evolutionary questions, who should not, ought to consult the relevant chapters in this book. *Dan Graur and Dror Berel for Biometrics*, September 2006.

Coalescence theory facilitates the merger of population genetics theory with phylogenetic approaches, but still there are mostly two camps: phylogeneticists and population geneticists. Only a few people are moving freely between them. Rasmus Nielsen is certainly one of these researchers, and his work so far has merged many population genetic and phylogenetic aspects of biological research under the umbrella of molecular evolution. Although Nielsen did not contribute a chapter to his book, his work permeates all its chapters. This book gives an overview of his interests and current achievements in molecular evolution. In short, this book should be on your bookshelf. *Peter Beerli for Evolution*, 60:2, 2006.

Evolutionary Dynamics Martin A. Nowak, 2006-09-29. Evolution is the one theory that transcends all of biology. Nowak

draws on the languages of biology and mathematics to outline the mathematical principles according to which life evolves. His book makes a case for understanding every living system and everything that arises as a consequence of living systems in terms of evolutionary dynamics.

On the Origins and Dynamics of Biodiversity: the Role of Chance Alain Pavé, 2010-07-03

Chance is necessary for living systems from the cell to organisms, populations, communities, and ecosystems. It is at the heart of their evolution and diversity. Long considered contingent on other factors, chance both produces random events in the environment and is the product of endogenous mechanisms, molecular as well as cellular, demographic, and ecological. This is how living things have been able to diversify themselves and survive on the planet. Chance is not something to which Life has been subjected; it is quite simply necessary for Life. The endogenous mechanisms that bring it about are at once the products and the engines of evolution, and they also produce biodiversity. These internal mechanisms, veritable biological roulettes, are analogous to the mechanical devices that bring about physical chance. They can be modeled by analogous mathematical equations. This opens the way to a global modeling of biodiversity dynamics, but we need also to gather quantitative data in both the laboratory setting as well as in the field. By examining biodiversity at all scales and all levels, this book seeks to evaluate the breadth of our knowledge on this topical subject, to propose an integrated look at living things, to assess the role of chance in its dynamics in the evolutionary processes, and also to imagine practical consequences on the management of living systems.

*Bios* Hector C. Sabelli, 2005. This book focuses on a prototype of creative causal processes termed BIOS and how the concept can be applied to the physical world in medicine and in social science. This book presents methods for identifying creative features in empirical data, studies showing biotic patterns in physical, biological, and economic processes, mathematical models of bipolar positive and negative feedback that generate biotic patterns. These studies support the hypothesis that natural processes are creative, not determined, and causal, not random, and that bipolar feedback plays a major role in their evolution. Simple processes precede, coexist, constitute, and surround the complex systems they generate; priority of the simple. In turn, complex processes feedback and transform simpler ones; supremacy of the complex.

**Advances in Artificial Life** Jozef Kelemen, Petr Sosik, 2003-06-30. Why is the question of the difference between living and non-living matter intellectually so attractive to the man of the West? Where are our dreams about our own ability to understand this difference and to overcome it using the firmly established technologies rooted there? Where are, for instance, the cultural roots of the enterprises covered nowadays by the discipline of Artificial Life? Contemplating such questions, one of us has recognized the existence of the eternal dream of the man of the West expressed, for example, in the Old Testament as follows: the Lord God formed the man from the dust of the ground and breathed into his nostrils the breath of life, and the man became a living being. Genesis 2:7. This is the dream about the workmanlike act of the creation of Adam from clay, about the creation of life from something non-living, and the confidence in the magic power of technologies. How has this dream developed and been converted into a reality, and how does it determine our present-day activities in science and technology? What is this con-

dence rooted in Then God said Let us make man in our image Genesis 1 26 Man believes in his own ability to repeat the Creator s acts to change ideas into real things because he believes he is godlike This con dence is using the trendy Dawkins term perhaps the most important cultural meme of the West      **From Strange Simplicity to Complex Familiarity**

Manfred Eigen,2013 This book presents a vivid argument for the almost lost idea of a unity of all natural sciences It starts with the strange physics of matter including particle physics atomic physics and quantum mechanics cosmology relativity and their consequences Chapter I and it continues by describing the properties of material systems that are best understood by statistical and phase space concepts Chapter II These lead to entropy and to the classical picture of quantitative information initially devoid of value and meaning Chapter III Finally information space and dynamics within it are introduced as a basis for semantics Chapter IV leading to an exploration of life and thought as new problems in physics Chapter V Dynamic equations again of a strange but very general nature bring about the complex familiarity of the world we live in Surprising new results in the life sciences open our eyes to the richness of physical thought and they show us what can and what cannot be explained by a Darwinian approach The abstract physical approach is applicable to the origins of life of meaningful information and even of our universe      Happenings and Hearsay Gabriel Ward Lasker,1999 One of the founders of modern

human biology and physical anthropology Gabriel W Lasker holds a well established place in the history of science In a classic article published in Science in 1969 Lasker advanced the idea of plasticity the process of human adaptation to stressful environments by a series of modifications to the body during the course of physical growth and development This concept was a factor that led the scientific community to give up its reliance on the notion of genetically fixed racial types As he documents the rapidly changing field of anthropology and some of its leading figures Lasker gives his readers a peek inside the lives of people who have defined what it means to be human and one of those people is himself      **A to Z of**

**Biologists** Lisa Yount,2014-05-14 Profiles more than 150 scientists from around the world who made important contributions to the field of biology including Claude Bernard Alexander Fleming Mary Claire King Ronald Ross and Tetsuko Takabe



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