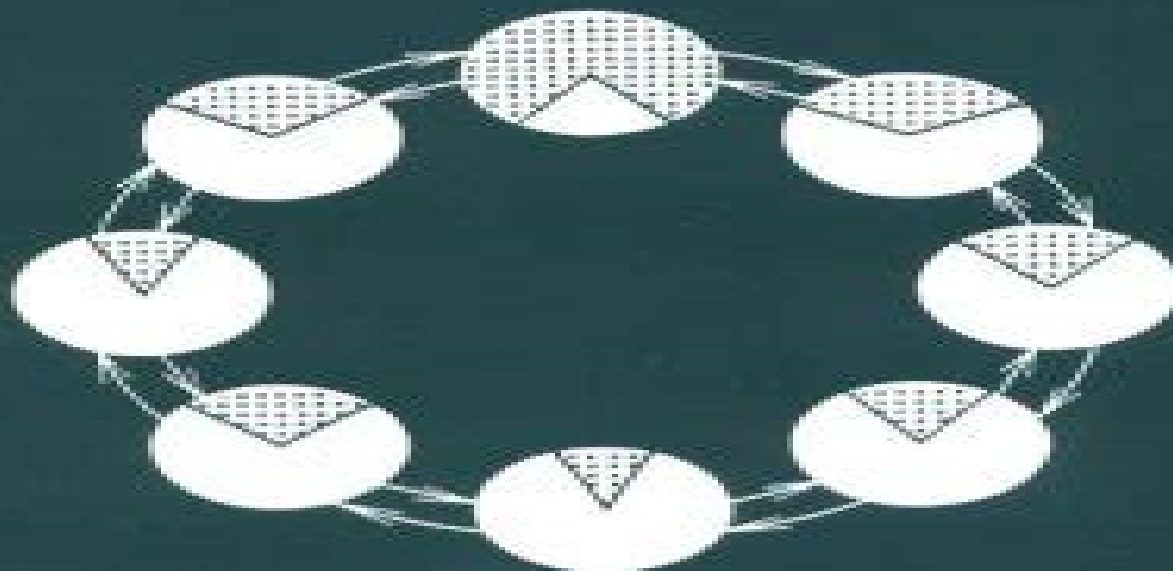


POPULATION GENETICS Diversity and Stability

Yu.P. Altukhov



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Population Genetics Diversity And Stability

**Marcos Vinícius Bohrer Monteiro
Siqueira, Enéas Ricardo Konzen, Pedro
Manoel Galetti Junior**



Population Genetics Diversity And Stability:

Population Genetics I P. Altukhov, Jurij P. Altuchov, I. P. Altukhov, 1990 Originally published in Russian in 1983 examines field and experimental work in the study of genetic processes in the populations of a wide variety of species including humans Isolates underlying factors and conditions necessary for the genetic stability of populations which are crucial in the global efforts to preserve biological diversity Altukhov genetics USSR Acad of Sciences argues that speciation is a consequence of qualitative genome reorganization challenging the neo Darwinist view that it is the result of gradual genetic change Of interest to geneticists animal and plant breeders specialists in fishery agriculture and forestry and evolutionary biologists Most of the discussion is accessible to the general reader Annotation copyrighted by Book News Inc Portland OR

Population Genetics in the Neotropics Marcos Vinícius Bohrer Monteiro Siqueira, Enéas Ricardo Konzen, Pedro Manoel Galetti Junior, 2025-04-23 The Neotropics hold high levels of biodiversity figuring among the essential hotspots for conservation on Earth Invaluable genetic resources of this biogeographic dominion must deserve attention of conservationists as well as of breeders This project is aimed at producing a book on population genetics directed to an audience of undergraduate and graduate students but not limited to those In a distinct approach we seek to develop a material devoted to population genetics in the Neotropics contextualizing examples of several animal and plant species belonging to this highly diverse dominion Traditional books available in the subject of population genetics commonly deal with organisms that are native to North America and Europe while neotropical organisms are lacking in the context so our book comes forth as an initiative towards covering that Among several subjects this textbook addresses studies on molecular evolution and phylogenetics genetic structure at broad and fine spatial scales landscape genetics niche modeling and climate change conservation genetics and quantitative variation and its genetic components in hotspots of biodiversity such as the Amazon the Brazilian Savanna and the Atlantic Rain Forest It should provide an easy going reading with the main concepts being presented and contextualized within the Neotropical dynamics of plants and animal populations Basic mathematical foundations of population genetics theory are provided but no further details on deductions and advanced algebra are given for the purpose of simplicity The application of the studies on conservation and breeding is also addressed The chapters were planned to be brief describing the main concepts processes and case studies Invited authors were encouraged to describe examples from their own research in the Neotropics Altogether this project may offer students with a textbook with concepts and ideas of the Neotropical genetic diversity bringing awareness and stimulating endeavors towards the continuance of conservation of endangered species in their environments of origin

Conservation Genetics V. Loeschcke, J. Tomiuk, S.K. Jain, 2013-03-11 It follows naturally from the widely accepted Darwinian dictum that failures of populations or of species to adapt and to evolve under changing environments will result in their extinction Population geneticists have proclaimed a centerstage role in developing conservation biology theory and applications However we must critically reexamine what we

know and how we can make rational contributions We ask Is genetic variation really important for the persistence of species Has any species become extinct because it ran out of genetic variation or because of inbreeding depression Are demographic and environmental stochasticity by far more important for the fate of a population or species than genetic stochasticity genetic drift and inbreeding Is there more to genetics than being a tool for assessing reproductive units and migration rates Does conventional wisdom on inbreeding and magic numbers or rules of thumb on critical effective population sizes MVP estimators reflect any useful guidelines in conservation biology What messages or guidelines from genetics can we reliably provide to those that work with conservation in practice Is empirical work on numerous threatened habitats and taxa gathering population genetic information that we can use to test these guidelines These and other questions were raised in the invitation to a symposium on conservation genetics held in May 1993 in pleasant surroundings at an old manor house in southern Jutland Denmark Salmonid Fishes Yuri P. Altukhov, Elena A. Salmenkova, Vladimir T. Omelchenko, 2008-04-15

This important title encompasses features of genetic processes in complexly organised population systems of salmonids one of the most commercially valuable families of fish worldwide Translated from the original work in Russian the authors have taken the opportunity to update and revise the work much of it appearing in the English language for the first time Covering such important concepts as optimal gene diversity and the unfavourable influence of fishery and hatchery reproduction on the genetic structure of salmon populations the authors have drawn together a huge wealth of information that will form the cornerstone of much new work in the future The authors of *Salmonid Fishes* have between them many years of research experience and practical knowledge in the area and the English translation of this important work which has been edited by Professor John Thorpe and Professor Gary Carvalho provides vital information for all those involved in salmonid management exploitation and conservation including fish biologists fisheries managers conservation and population biologists ecologists and geneticists **Intraspecific Genetic Diversity** Yuri Petrovich Altukhov, 2006-01-16

Population and evolutionary genetics have been quickly developing fields of biological research over the past decades This book compiles our current understanding of genetic processes in natural populations In addition the book provides the author's original ideas and concepts based on the data obtained by himself and his close coworkers The author introduces his pioneering concept of population genetic stability and much of the book is concerned with the factors and conditions of such stability Why does genetic stability matter so much Altukhov argues that the sustainable use of natural resources including genetic resources of populations critically depends on the maintenance of their stability The preservation of well adapted genetic characteristics from one generation to the next is essential for this stability Traditionally population genetics has been confused with evolution and the role of evolutionary factors in shaping genetic structures of populations While the idea of a population as a dynamic unit of evolution has been widely accepted the significance of genetic stability and its implications for the long term survival of populations and species have not been fully appreciated **Agricultural Resilience** Sarah M. Gardner, Stephen J.

Ramsden, Rosemary S. Hails, 2019-05-02 Offers an interdisciplinary exploration of resilience in agriculture and implications for producers seeking to adapt to change and uncertainty *Managing Soils and Terrestrial Systems* Brian D. Fath, Sven Erik Jorgensen, 2020-07-29 Bringing together a wealth of knowledge Environmental Management Handbook Second Edition gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about environmental problems and their corresponding management issues This six volume set is a reimagining of the award winning Encyclopedia of Environmental Management published in 2013 and features insights from more than 400 contributors all experts in their field The experience evidence methods and models used in studying environmental management are presented here in six stand alone volumes arranged along the major environmental systems Features The first handbook that demonstrates the key processes and provisions for enhancing environmental management Addresses new and cutting edge topics on ecosystem services resilience sustainability food energy water nexus socio ecological systems and more Provides an excellent basic knowledge on environmental systems explains how these systems function and offers strategies on how to best manage them Includes the most important problems and solutions facing environmental management today In this third volume Managing Soils and Terrestrial Systems the general concepts and processes of the geosphere with its related soil and terrestrial systems are introduced It explains how these systems function and provides strategies on how to best manage them It serves as an excellent resource for finding basic knowledge on the geosphere systems and includes important problems and solutions that environmental managers face today This book practically demonstrates the key processes methods and models used in studying environmental management *Population Genomics: Marine Organisms* Marjorie F. Oleksiak, Om P. Rajora, 2019-12-31 Population genomics has provided unprecedented opportunities to unravel the mysteries of marine organisms in the oceans depths The world s oceans which make up 70% of our planet encompass diverse habitats and host numerous unexplored populations and species Population genomics studies of marine organisms are rapidly emerging and have the potential to transform our understanding of marine populations species and ecosystems providing insights into how these organisms are evolving and how they respond to different stimuli and environments This knowledge is critical for understanding the fundamental aspects of marine life how marine organisms will respond to environmental changes and how we can better protect and preserve marine biodiversity and resources This book brings together leading experts in the field to address critical aspects of fundamental and applied research in marine species and share their research and insights crucial for understanding marine ecosystem diversity and function It also discusses the challenges opportunities and future perspectives of marine population genomics *Wildlife Habitat Conservation* Michael L. Morrison, Heather A. Mathewson, 2015-05-15 Published in association with The Wildlife Society *Population Genetics and Population Ethology* L. Z. Kaidanov, E. N. Panov, 1989

Population Genetics Diversity And Stability Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Population Genetics Diversity And Stability**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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