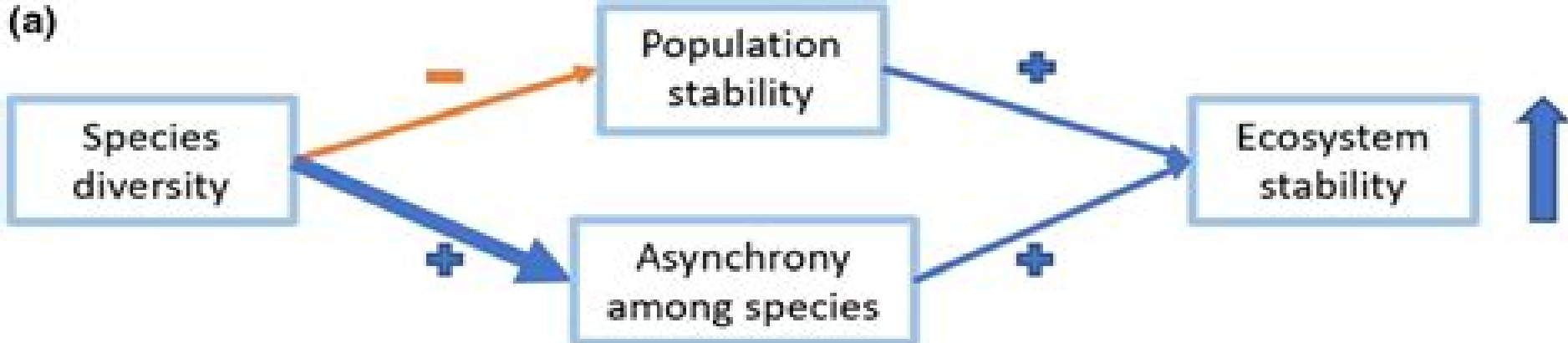
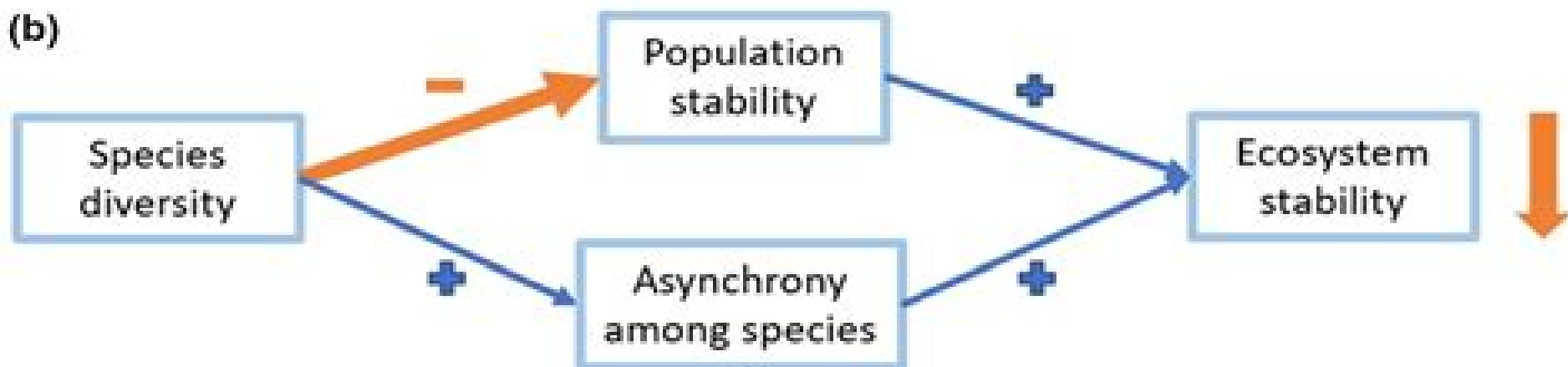


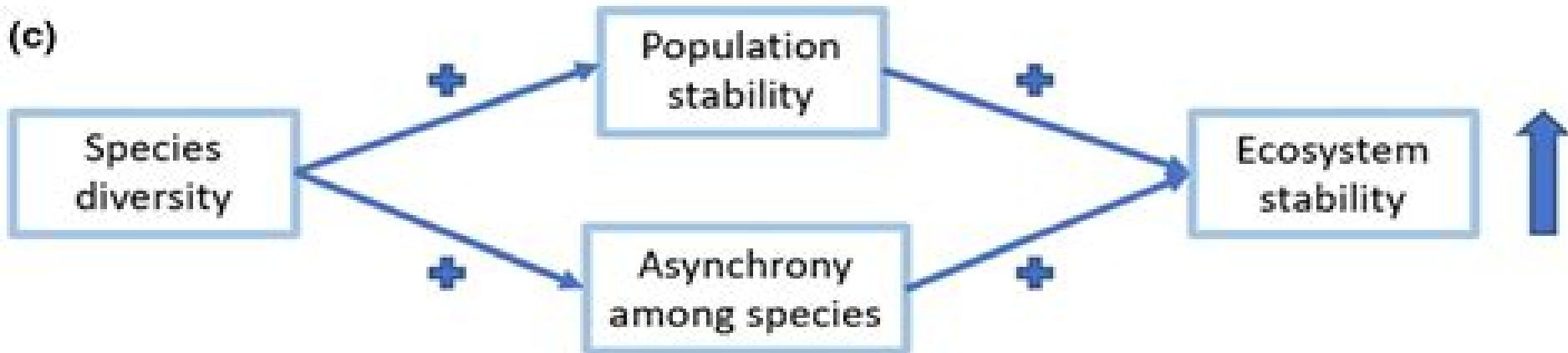
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Population Genetics Diversity And Stability

B Lingard



Population Genetics Diversity And Stability:

Population Genetics I□U□. P. Altukhov, Jurij P. Altuchov, IU. 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

Intraspecific Genetic Diversity Yuri Petrovich Altukhov, 2006-01-16 Population and evolutionary genetics have been quickly developing elds 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 popu tions critically depends on the maintenance of their stability The preser tion of well adapted genetic characteristics from one generation to the next is essential for this stability Traditionally population genetics has been cusedonevolution andthe role of evolutionary factorsinshapinggenetic structures of populations While the idea of a population as a dynamic unit of evolution has been widely accepted the signi cance of genetic stability and its implications for the long term survival of populations and species have not been fully appreciated

The Ecological Consequences of Genetic Diversity in Eelgrass (*Zostera Marina*) Anne Randall Hughes, 2006

New Vistas in Agroforestry P. K. Ramachandran Nair, M.R. Rao, L.E. Buck, 2013-03-09 It was in late 2002 that the idea of preparing a collection of multi authored chapters on different aspects of ag st forestry as a compendium for the 1 World Congress of Agroforestry June 2004 was tossed around With the approval of the idea by the Congress Organizing Committee serious efforts to make it a reality got under way in early 2003 The rigorously peer reviewed and edited manuscripts were submitted to the publisher in December 2003 Considering the many different individuals involved in the task as authors and manuscript reviewers we feel quite pleased that the task could be accomplished within this timeframe We are pleased also about the contents on several counts First of all the tropical temperate mix of topics is a rare feature of a publication of this nature In spite of the scienti c commonalities between tropical and temperate practices of agroforestry the differences between them are so enormous that it is often impossible to mesh them together in one publication Secondly several of the chapters are on topics that have not been discussed or described much in agroforestry literature A third feature is that some of the authors though well known in their own disciplinary areas are somewhat new to agroforestry the

perceptions and outlooks of these scholars who are relatively uninfluenced by the past happenings in agroforestry gives a whole new dimension to agroforestry and broadens the scope of the subject. Finally,

rather than just reviewing and summarizing past work, most chapters take the extra effort in attempting to outline the next steps.

Entomologia generalis, 1994

Intraspecific Genetic Diversity Yuri Petrovich Altukhov, 2009-09-02

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 considered 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.

Die Evolution und der Naturschutz Thomas Potthast, 1999

Fifty Years of Invasion Ecology

David M. Richardson, 2011-01-18

Invasion ecology is the study of the causes and consequences of the introduction of organisms to areas outside their native range. Interest in this field has exploded in the past few decades. Explaining why and how organisms are moved around the world, how and why some become established and invade, and how best to manage invasive species in the face of global change are all crucial issues that interest biogeographers, ecologists, and environmental managers in all parts of the world. This book brings together the insights of more than 50 authors to examine the origins, foundations, current dimensions, and potential trajectories of invasion ecology. It revisits key tenets of the foundations of invasion ecology, including contributions of pioneering naturalists of the 19th century, including Charles Darwin and British ecologist Charles Elton, whose 1958 monograph on invasive species is widely acknowledged as having focussed scientific attention on biological invasions.

BIODIVERSITY MAITI, PRABODH

K., MAITI, PAULAMI, 2023-04-13 Biodiversity refers to the variety and variability of organisms. Diverse biota provide ecosystem services and goods on which the survival of man is dependent. However, the world today is under tremendous threat of unprecedented loss of biodiversity due to widespread habitat fragmentation, overexploitation, and global climate change. Consequently, environmental issues like global warming, pollution, recurrent natural calamities, and human population rise are of major concern to the conservationists. The book, in its third edition, covers a complete range of topics from the concept of biodiversity, its history, importance of species diversity, systematics, present status of bioresources, and pattern of distribution of global species to the genetic diversity and ecosystem diversity. It also elaborates on various drivers that lead to biodiversity.

loss and the impact on global climate change on biota Moreover the topics on biopiracy environmental laws and policies and the importance of indigenous knowledge of indigenous communities are also described in the text The use of biotechnology based methods and various measures to preserve natural resources are highlighted in the text An all inclusive the book provides a detailed account of the conservation measures of biodiversity and proves to be the most comprehensive text encompassing both principles and applications of biodiversity The book is primarily designed for the undergraduate and postgraduate students of Environmental Science Zoology and Botany Besides it will also be of immense value to the students pursuing postgraduate diploma or other professional courses in Environmental Science and aspirants of various competitive examinations NEW TO THE THIRD EDITION Various sections are revised and updated throughout the book Includes detailed discussion on protected area sacred groves habitat fragmentation and its effect ecosystem functioning metapopulation invasive species and wildlife corridors Introduces the concept of ecological restoration and the system of Biodiversity Governance in India Provides a number of new and replaced figures for better illustration and understanding of the subject KEY FEATURES Explains the contemporary topics such as green accounting and sustainable management of natural resources in an easy to understand manner Incorporates a number of photographs flow charts diagrams and tables Provides chapter end review questions to help students check their understanding of the subject Includes MCQs with answers appended at the end of the book Gives an elaborate glossary of technical terms to acquaint the students with the related terminologies TARGET AUDIENCE B Sc Environmental Science Zoology and Botany M Sc Environmental Science Zoology and Botany PG Diploma in Biodiversity Conservation Environmental Science **Russian Journal of Genetics** ,1999

Biodiversität: Grundlagen, Gefährdung, Schutz Rüdiger Wittig, Manfred Niekisch, 2014-12-05 Der Botaniker Rüdiger Wittig und der Zoologe Manfred Niekisch geben einen breiten Überblick über die Diversität des Lebens auf der Erde Sie zeigen nicht nur allgemein verständlich die wissenschaftlichen Grundlagen auf sondern gehen ausführlich ein auf die materielle und spirituelle Bedeutung der Biodiversität für den Menschen und insbesondere auf die Umweltdienstleistungen welche Ökosysteme erbringen Ebenso dargestellt werden die Gründe der Gefährdung der Biodiversität sowie die Konventionen rechtlichen Instrumente und praktischen Möglichkeiten welche für den Schutz von Tieren Pflanzen und Ökosystemen zur Verfügung stehen Beleuchtet wird auch die Rolle der Nichtregierungsorganisationen Sustainable Forest Management in the Czech Republic Jan Kubík, 1993 **The Impact of Genetic Variation on Sustainable Agriculture** A. N. E. Birch, 1994 In this proceedings of a multidisciplinary conference the area of genetic variation of crop species and their relatives the variation that occurs among pests pathogens and weeds and the complex interactions between crop hosts their enemies and the environment is explored **Intraspecific Genetic Diversity** Yuri Petrovich Altukhov, 2005-11-24 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 considered 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 **Papers on Animal Population Genetics** Eliot B.

Spies, 1964 **Doklady Akademii Nauk SSSR**. Akademii Nauk SSSR., 1991 **The American Naturalist**, 2009

Conservation and the Genetics of Populations Fred W. Allendorf, Gordon H. Luikart, Sally N. Aitken, 2012-12-17 Loss of biodiversity is among the greatest problems facing the world today Conservation and the Genetics of Populations gives a comprehensive overview of the essential background concepts and tools needed to understand how genetic information can be used to conserve species threatened with extinction and to manage species of ecological or commercial importance New molecular techniques statistical methods and computer programs genetic principles and methods are becoming increasingly useful in the conservation of biological diversity Using a balance of data and theory coupled with basic and applied research examples this book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change the interpretation of genetic data from natural populations and how these can be applied to conservation The book includes examples from plants animals and microbes in wild and captive populations This second edition contains new chapters on Climate Change and Exploited Populations as well as new sections on genomics genetic monitoring emerging diseases metagenomics and more One third of the references in this edition were published after the first edition Each of the 22 chapters and the statistical appendix have a Guest Box written by an expert in that particular topic including James Crow Louis Bernatchez Loren Rieseberg Rick Shine and Lisette Waits This book is essential for advanced undergraduate and graduate students of conservation genetics natural resource management and conservation biology as well as professional conservation biologists working for wildlife and habitat management agencies Additional resources for this book can be found at www.wiley.com/go/allendorf/populations **The Zoological Record**, 2003 *Technology Options and the Gene Struggle* Trygve Berg, 1991

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