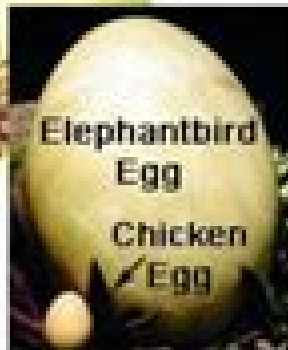
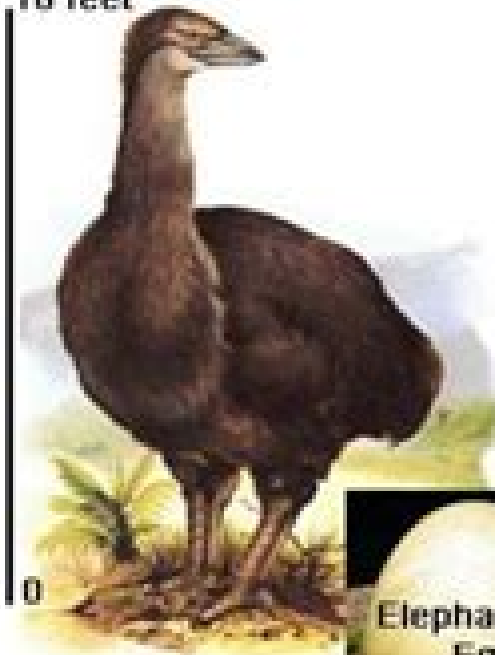




Conservation Genetics



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Introduction To Conservation Genetics Metergy

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Eldridge,Michele R. Dudash,Charles B.
Fenster,Robert C. Lacy,Paul Sunnucks**

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Introduction to Conservation Genetics Richard Frankham, David A. Briscoe, Jonathan D. Ballou, 2002-03-14 Genetic diversity biodiversity population management

Introduction to Conservation Genetics Richard Frankham, Jonathan D. Ballou, David A. Briscoe, 2010-01-28 This impressive author team brings the wealth of advances in conservation genetics into the new edition of this introductory text including new chapters on population genomics and genetic issues in introduced and invasive species They continue the strong learning features for students main points in the margin chapter summaries vital support with the mathematics and further reading and now guide the reader to software and databases Many new references reflect the expansion of this field With examples from mammals birds reptiles fish amphibians plants and invertebrates this is an ideal introduction to conservation genetics for a broad audience The text tackles the quantitative aspects of conservation genetics and has a host of pedagogy to support students learning the numerical side of the subject Combined with being up to date its user friendly writing style and first class illustration programme forms a robust teaching package

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Introduction to Conservation Genetics Richard Frankham, 2002 Presented in an easy to follow format this clear and comprehensive textbook provides an accessible introduction to the emerging discipline of genetic studies in conservation Includes chapter summaries text boxes worked examples problems and solutions as aids to revision

A Primer of Conservation Genetics Richard Frankham, Jonathan D. Ballou, David A. Briscoe, 2004-02-12 This concise entry level text provides an introduction to the importance of genetic studies in conservation and presents the essentials of the discipline in an easy to follow format with main points and terms clearly highlighted The authors assume only a basic knowledge of Mendelian genetics and simple statistics making the book accessible to those with a limited background in these areas Connections between conservation genetics and the wider field of conservation biology are interwoven throughout the book Worked examples are provided throughout to help illustrate key equations and glossary and suggestions for further reading provide additional support for the reader Many beautiful pen and ink portraits of endangered species are included to enhance the text Written for short introductory level courses in genetics conservation genetics and conservation biology this book will also be suitable for practising conservation biologists zoo biologists and wildlife managers

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

Conservation Genetics [symposium on Conservation Genetics Held in May 1993, Aarhus, Denmark] Volker Loeschcke, Jürgen Tomiuk, Subodh K. Jain, 1994 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

Conservation and the Genomics of Populations Fred W. Allendorf, W. Chris Funk, Sally N. Aitken, Margaret Byrne, Gordon Luikart, 2022-02-10 The relentless loss of biodiversity is among the greatest problems facing the world today The third edition of this established textbook provides an updated and comprehensive overview of the essential background concepts and tools required to understand how genetics can be used to conserve species reduce threat of extinction and manage species of ecological or commercial importance This edition is thoroughly revised to reflect the major contribution of genomics to conservation of populations and species It includes two new chapters Genetic Monitoring and a final Conservation Genetics in Practice chapter that addresses the role of science and policy in conservation genetics New genomic techniques and statistical analyses are crucial tools for the conservation

geneticist This accessible and authoritative textbook provides an essential toolkit grounded in population genetics theory coupled with basic and applied research examples from plants animals and microbes The book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change evolutionary response to anthropogenic change and applications in conservation and management Conservation and the Genomics of Populations helps demystify genetics and genomics for conservation practitioners and early career scientists so that population genetic theory and new genomic data can help raise the bar in conserving biodiversity in the most critical 20 year period in the history of life on Earth It is aimed at a global market of applied population geneticists conservation practitioners and natural resource managers working for wildlife and habitat management agencies It will be of particular relevance and use to upper undergraduate and graduate students taking courses in conservation biology conservation genetics and wildlife management

Introduction To Conservation Genetics R.K. Tiwari,2007-01-01 This book takes a look at some aspects of humankind's prehistory and history with a view to understanding our evolutionary and cultural adaptations to our different environments Such a vast subject can necessarily be considered only briefly in such a book yet I do believe that the principal components of the human adaptation need to be stressed so that we can examine our present place in nature with a deeper perspective and a more profound understanding

Conservation Biology Scott P. Carroll,Charles W. Fox,2008-09-15 The main goal of this book is to encourage and formalize the infusion of evolutionary thinking into mainstream conservation biology It reviews the evolutionary foundations of conservation issues and unifies conceptual and empirical advances in evolutionary conservation biology The book can be used either as a primary textbook or as a supplementary reading in an advanced undergraduate or graduate level course likely to be called Conservation Biology or in some cases Evolutionary Ecology The focus of chapters is on current concepts in evolution as they pertain to conservation and the empirical study of these concepts The balanced treatment avoids exhaustive reviews and overlapping duplication among the chapters Little background in genetics is assumed of the reader

Conservation Genetics in Mammals Jorge Ortega,Jesus E. Maldonado,2020-01-24 This book focuses on the use of molecular tools to study small populations of rare and endangered mammals and presents case studies that apply an evolutionary framework to address innovative questions in the emerging field of mammalian conservation genomics using a highly diverse set of novel molecular tools Novel and more precise molecular technologies now allow experts in the field of mammalogy to interpret data in a more contextual and empirical fashion and to better describe the evolutionary and ecological processes that are responsible for the patterns they observe The book also demonstrates how recent advances in genetic genomic technologies have been applied to assess the impact of environmental anthropogenic changes on the health of small populations of mammals It examines a range of issues in the field of mammalian conservation genomics such as the role that the genetic diversity of the immune system plays in disease protection and local adaptation the use of noninvasive techniques and genomic banks as a resource for monitoring and restoring populations the structuring

of population by physical barriers and genetic diversity Further by integrating research from a variety of areas including population genetics molecular ecology systematics and evolutionary and conservation biology it enables readers to gain a deeper understanding of the conservation biology of mammals that are at increasing risk of extinction at local regional and global scales As such it offers a unique resource for a broad readership interested in the conservation biology of mammals and conservation management strategies to better preserve biodiversity

Genetics and the Extinction of Species Laura Landweber,Andrew Dobson,1999-07-21 In this collection a team of leading biologists demonstrates why the burgeoning field of conservation biology must continue to rely on the insights of population genetics if we are to preserve the diversity of living species

Conservation of Wildlife Populations L. Scott Mills,2012-12-17 Population ecology has matured to a sophisticated science with astonishing potential for contributing solutions to wildlife conservation and management challenges And yet much of the applied power of wildlife population ecology remains untapped because its broad sweep across disparate subfields has been isolated in specialized texts In this book L Scott Mills covers the full spectrum of applied wildlife population ecology including genomic tools for non invasive genetic sampling predation population projections climate change and invasive species harvest modeling viability analysis focal species concepts and analyses of connectivity in fragmented landscapes With a readable style analytical rigor and hundreds of examples drawn from around the world Conservation of Wildlife Populations 2nd ed provides the conceptual basis for applying population ecology to wildlife conservation decision making Although targeting primarily undergraduates and beginning graduate students with some basic training in basic ecology and statistics in majors that could include wildlife biology conservation biology ecology environmental studies and biology the book will also be useful for practitioners in the field who want to find in one place and with plenty of applied examples the latest advances in the genetic and demographic aspects of population ecology Additional resources for this book can be found at www.wiley.com/go/mills/wildlifepopulations

Genetic Management of Fragmented Animal and Plant Populations Richard Frankham,Jonathan D. Ballou,Katherine Ralls,Mark Eldridge,Michele R. Dudash,Charles B. Fenster,Robert C. Lacy,Paul Sunnucks,2017-07-04 One of the greatest unmet challenges in conservation biology is the genetic management of fragmented populations of threatened animal and plant species More than a million small isolated population fragments of threatened species are likely suffering inbreeding depression and loss of evolutionary potential resulting in elevated extinction risks Although these effects can often be reversed by re establishing gene flow between population fragments managers very rarely do this On the contrary genetic methods are used mainly to document genetic differentiation among populations with most studies concluding that genetically differentiated populations should be managed separately thereby isolating them yet further and dooming many to eventual extinction Many small population fragments are going extinct principally for genetic reasons Although the rapidly advancing field of molecular genetics is continually providing new tools to measure the extent of population fragmentation and its genetic consequences

adequate guidance on how to use these data for effective conservation is still lacking This accessible authoritative text is aimed at senior undergraduate and graduate students interested in conservation biology conservation genetics and wildlife management It will also be of particular relevance to conservation practitioners and natural resource managers as well as a broader academic audience of conservation biologists and evolutionary ecologists **A Primer of Conservation Genetics** Richard Frankham,2003 *Molecular Genetic Approaches in Conservation* Thomas B. Smith,Robert K. Wayne,1996-10-24 Molecular techniques are proving invaluable in determining the phylogenetic status of potentially endangered species for investigating mechanisms of speciation and for measuring the genetic structure of populations It is increasingly important for ecologists and evolutionary and conservation biologists to understand and use such molecular techniques but most workers in these areas have not been trained in molecular biology This book lays out the principles and basic techniques for the molecular tools appropriate for addressing issues in conservation and it presents case studies showing how these tools have been used successfully in conservation biology Examples include the genetic analysis of population structure various uses of DNA in conservation genetics and estimation of migration parameters from genetic data Wildlife managers as well as researchers in these areas will find this a valuable book Conservation Genetics in the Age of Genomics ,2009

Evolutionary Conservation Genetics Jacob Höglund,2009-03-19 Conservation genetics focuses on understanding the role of genetic variation for population persistence This book is about the methods used to study genetic variation in endangered species and whether genetic variation matters in the extinction of species **A Primer of Conservation Genetics** ,2004

Conservation Genetics in the Age of Genomics George Amato,2009 Genome sequencing enables scientists to study genes over time and to test the genetic variability of any form of life from bacteria to mammals Thanks to advances in molecular genetics scientists can now determine an animal s degree of inbreeding or compare genetic variation of a captive species to wild or natural populations Mapping an organism s genetic makeup recasts such terms as biodiversity and species and enables the conservation of rare or threatened species populations and genes By introducing a new paradigm for studying and preserving life at a variety of levels genomics offers solutions to previously intractable problems in understanding the biology of complex organisms and creates new tools for preserving the patterns and processes of life on this planet Featuring a number of high profile researchers this volume introduces the use of molecular genetics in conservation biology and provides a historical perspective on the opportunities and challenges presented by new technologies It discusses zoo museum and herbarium based biological collections which have expanded over the past decade and covers the promises and problems of genomic and reproductive technology The collection concludes with the philosophical and legal issues of conservation genetics and their potential effects on public policy

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