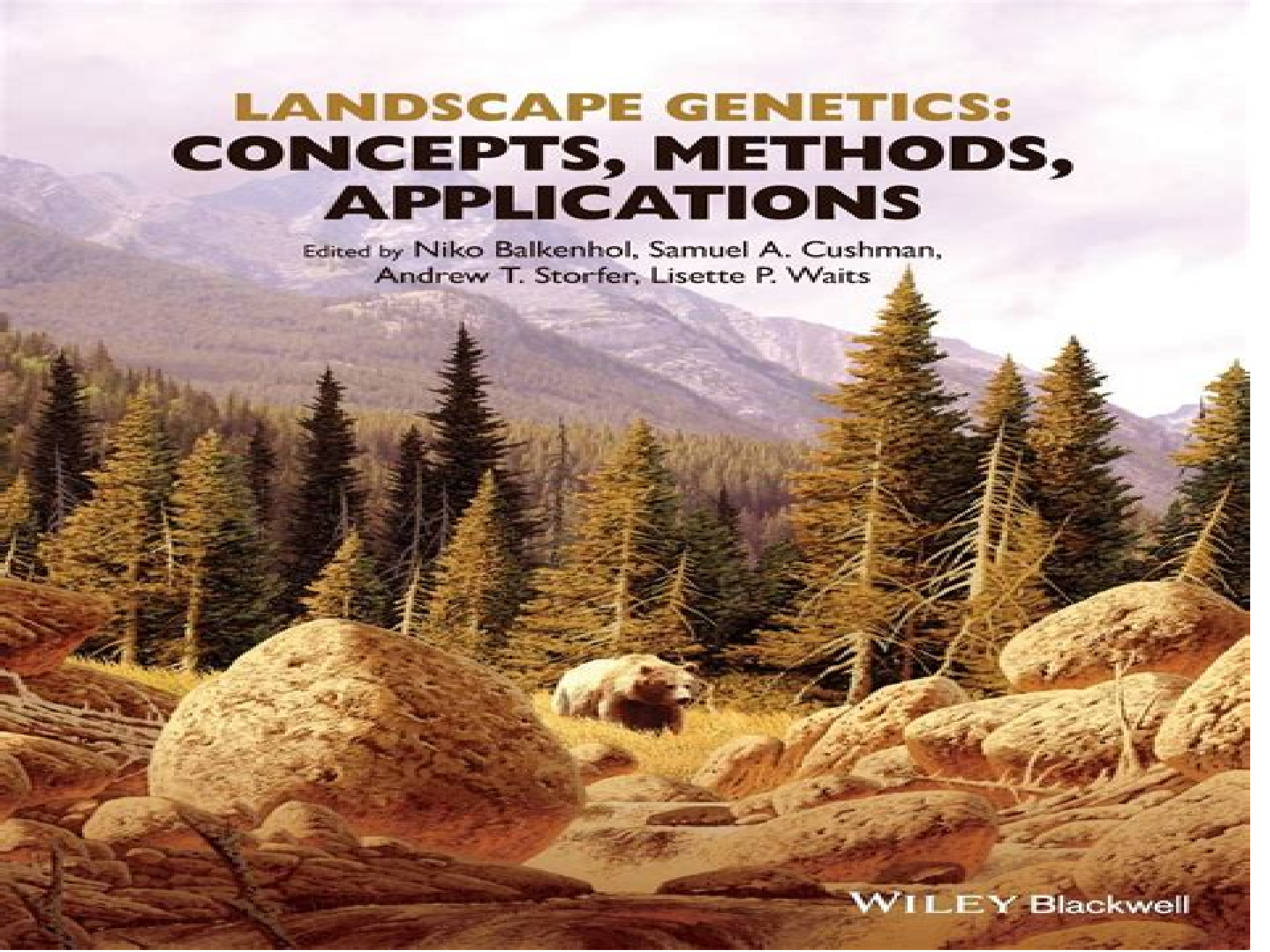




LANDSCAPE GENETICS: CONCEPTS, METHODS, APPLICATIONS

Edited by Niko Balkenhol, Samuel A. Cushman,
Andrew T. Storfer, Lisette P. Waits

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Landscape Genetics Concepts Methods Applications:

Landscape Genetics Niko Balkenhol, Samuel Cushman, Andrew Storfer, Lisette Waits, 2015-08-26 Despite the substantial interest in landscape genetics from the scientific community learning about the concepts and methods underlying the field remains very challenging The reason for this is the highly interdisciplinary nature of the field which combines population genetics landscape ecology and spatial statistics These fields have traditionally been treated separately in classes and textbooks and very few scientists have received the interdisciplinary training necessary to efficiently teach or apply the diversity of techniques encompassed by landscape genetics To address the current knowledge gap this book provides the first in depth treatment of landscape genetics in a single volume Specifically this book delivers fundamental concepts and methods underlying the field covering particularly important analytical methods in detail and presenting empirical and theoretical applications of landscape genetics for a variety of environments and species Consistent with the interdisciplinary nature of landscape genetics the book combines an introductory textbook like section with additional sections on advanced topics and applications that are more typical of edited volumes The chapter topics and the expertise of the authors and the editorial team make the book a standard reference for anyone interested in landscape genetics The book includes contributions from many of the leading researchers in landscape genetics The group of scientists we have assembled has worked on several collaborative projects over the last years including a large number of peer reviewed papers several landscape genetics workshops at international conferences and a distributed graduate seminar on landscape genetics Based on the experiences gained during these collaborative teaching and research activities the book includes chapters that synthesize fundamental concepts and methods underlying landscape genetics Part 1 chapters on advanced topics that deserve a more in depth treatment Part 2 and chapters illustrating the use of concepts and methods in empirical applications Part 3 This structure ensures a high usefulness of the book for beginning landscape geneticists and experienced researchers alike so that it has a broad target audience At least one of the four co editors is involved in almost every chapter of the book thereby ensuring a high consistency and coherency among chapters

Landscape Genetics, 2010 **Landscape Genetics** Niko Balkenhol, Samuel Cushman, Andrew Storfer, Lisette Waits, 2015-11-09 LANDSCAPE GENETICS CONCEPTS METHODS APPLICATIONS LANDSCAPE GENETICS CONCEPTS METHODS APPLICATIONS Edited by Niko Balkenhol Samuel A Cushman Andrew T Storfer Lisette P Waits Landscape genetics is an exciting and rapidly growing field melding methods and theory from landscape ecology and population genetics to address some of the most challenging and urgent ecological and evolutionary topics of our time Landscape genetic approaches now enable researchers to study in detail how environmental complexity in space and time affect gene flow genetic drift and local adaptation However learning about the concepts and methods underlying the field remains challenging due to the highly interdisciplinary nature of the field which relies on topics that have traditionally been treated separately in classes and textbooks In this edited volume some of the

leading experts in landscape genetics provide the first comprehensive introduction to underlying concepts commonly used methods and current and future applications of landscape genetics Consistent with the interdisciplinary nature of the field the book includes textbook like chapters that synthesize fundamental concepts and methods underlying landscape genetics Part 1 chapters on advanced topics that deserve a more in depth treatment Part 2 and chapters illustrating the use of concepts and methods in empirical applications Part 3 Aimed at beginning landscape geneticists and experienced researchers alike this book will be helpful for all scientists and practitioners interested in learning teaching and applying landscape genetics

Conservation Genetics in the Neotropics Pedro M. Galetti Jr.,2023-08-29 This book explores how genetics and the new technologies in genomics have been used for conservation of plants and animals in the Neotropics It shows the new perspective for conservation genetics beyond the use of theoretical and methods in genetics at species level and presents how genetics and genomics can be used for assessing communities Conservation genetics and genomics are presented as a helpful field of study for resolving taxonomic uncertainties and hidden biodiversity understanding populations and extinction risk genetic management wildlife forensic genetics assessing biology and molecular ecology assessing communities conservation genomics and the use of conservation biology and genetics in science learning highlighting case studies in the Neotropics Applications of conservation genetics for management or policy decision making planning and implementation of conservation practice in the Neotropics are addressed across chapters This book will interest to researchers and students in conservation genetics and biology conservation interested in the Neotropics Stakeholders and decision makers in conservation biology may also find this book useful

Population Genomics Om P. Rajora,2019-01-07 Population genomics has revolutionized various disciplines of biology including population evolutionary ecological and conservation genetics plant and animal breeding human health medicine and pharmacology by allowing to address novel and long standing questions with unprecedented power and accuracy It employs large scale or genome wide genetic information and bioinformatics to address various fundamental and applied aspects in biology and related disciplines and provides a comprehensive genome wide perspective and new insights that were not possible before These advances have become possible due to the development of new and low cost sequencing and genotyping technologies and novel statistical approaches and software bioinformatics tools and models Population genomics is tremendously advancing our understanding the roles of evolutionary processes such as mutation genetic drift gene flow and natural selection in shaping up genetic variation at individual loci and across the genome and populations improving the assessment of population genetic parameters or processes such as adaptive evolution effective population size gene flow admixture inbreeding and outbreeding depression demography and biogeography resolving evolutionary histories and phylogenetic relationships of extant ancient and extinct species understanding the genomic basis of fitness adaptation speciation complex ecological and economically important traits and disease and insect resistance facilitating forensics genetic medicine and pharmacology

delineating conservation genetic units and understanding the genetic effects of resource management practices and assisting conservation and sustainable management of genetic resources This Population Genomics book discusses the concepts approaches applications and promises of population genomics in addressing most of the above fundamental and applied crucial aspects in a variety of organisms from microorganisms to humans The book provides insights into a range of emerging population genomics topics including population epigenomics landscape genomics seascape genomics paleogenomics ecological and evolutionary genomics biogeography demography speciation admixture colonization and invasion genomic selection and plant and animal domestication This book fills a vacuum in the field and is expected to become a primary reference in Population Genomics world wide

The Least Cost Path From Landscape Genetics to Landscape Genomics Samuel A. Cushman, Andrew J. Shirk, Glenn T. Howe, Melanie A. Murphy, Rodney J. Dyer, Stéphane Joost, 2018-08-03

Ecosystems are the stage on which the play of evolution is acted and ecosystems are complex spatially structured and temporally varying The purpose of this Research Topic is to explore critical challenges and opportunities for the transition from landscape genetics to landscape genomics Landscape genetics has focused on the spatial analysis of small genetic datasets typically comprised of less than 20 microsatellite markers taken from clusters of individuals in putative populations or distributed individuals across landscapes The recent emergence of large scale genomic datasets produced by next generation sequencing methods poses tremendous challenge and opportunity to the field Perhaps the greatest is to produce process curate archive and analyze spatially referenced genomic datasets in a way such that research is led by a priori hypotheses regarding how environmental heterogeneity and temporal dynamics interact to affect gene flow and selection The papers in the Research Topic cover a broad range of topics under this area of focus from reviews of the emergence of landscape genetics to best practices in spatial analysis of genetic data The compilation like the emerging field itself is eclectic and illustrates the scope of both the challenges and opportunities of this emerging field

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

Handbook

of Molecular Biotechnology Dongyou Liu, 2024-09-05 With a history that likely dates back to the dawn of human civilization more than 10 000 years ago and a record that includes the domestication and selective breeding of plants and animals the harnessing of fermentation process for bread cheese and brewage production and the development of vaccines against infectious diseases biotechnology has acquired a molecular focus during the 20th century particularly following the resolution of DNA double helix in 1953 and the publication of DNA cloning protocol in 1973 and transformed our concepts and practices in disease diagnosis treatment and prevention pharmaceutical and industrial manufacturing animal and plant industry and food processing While molecular biotechnology offers unlimited opportunities for improving human health and well being animal welfare agricultural innovation and environmental conservation a dearth of high quality books that have the clarity of laboratory manuals without distractive procedural details and the thoroughness of well conversed textbooks appears to dampen the enthusiasm of aspiring students In attempt to fill this glaring gap *Handbook of Molecular Biotechnology* includes four sections with the first three presenting in depth coverage on DNA RNA and protein technologies and the fourth highlighting their utility in biotechnology Recognizing the importance of logical reasoning and experimental verification over direct observation and simple description in biotechnological research and development the Introduction provides pertinent discussions on key strategies i e be first be better and be different effective thinking lateral parallel causal reverse and random and experimental execution which have proven invaluable in helping advance research projects evaluate and prepare research reports and enhance other scientific endeavors Key features Presents state of the art reviews on DNA RNA and protein technologies and their biotechnological applications Discusses key strategies effective thinking and experimental execution for scientific research and development Fills the gap left by detailed ridden laboratory manuals and insight lacking standard textbooks Includes expert contributions from international scientists at the forefront of molecular biotechnology research and development Written by international scientists at the forefront of molecular biotechnology research and development chapters in this volume cover the histories principles and applications of individual techniques technologies and constitute stand alone yet interlinked lectures that strive to educate as well as to entertain Besides providing an informative textbook for tertiary students in molecular biotechnology and related fields this volume serves as an indispensable roadmap for novice scientists in their efforts to acquire innovative skills and establish solid track records in molecular biotechnology and offers a contemporary reference for scholars educators and policymakers wishing to keep in touch with recent developments in molecular biotechnology

Cancer through the Lens of Evolution and Ecology Jason A. Somarelli, Norman A. Johnson, 2024-05-29 Cancer cells exist in an ever changing ecology and are subject to evolutionary pressures just like any species in nature This edited book explores the following themes 1 how the dynamics of mutation epigenetics and gene expression noise are sources of genetic diversity 2 how scarce resources influence cancer therapy resistance 3 how predator prey dynamics are mirrored in immune cancer cross talk 4 how cancer cells parallel niche

construction theory 5 how changing fitness landscapes enable cancer growth and 6 how cancer cells interact within the body The book is a resource for understanding cancer as a disease of multicellularity grounded in evolutionary principles By using this knowledge researchers are starting to exploit these behaviors for treatment paradigms Key Features Bridges disciplines exemplifying the ways disparate fields create new perspectives when integrated Offers insights from leading scholars in cancer biology ecology and evolutionary biology Provides a timely recognition by oncologists that evolutionary paradigms are crucial for breakthroughs in cancer treatment Integrates basic and applied sciences of oncology and evolutionary biology

Methods in Molecular Medicine Yusuf Tutar, 2021-01-20 Treatment risk and response to therapy prediction can be forecasted through early diagnosis which improves prognosis reliability and effectiveness of therapies This book covers contemporary advances in molecular markers disease causing variants retroelements and the basis of distinct diseases

Essentials of Landscape Ecology Kimberly A. With, 2019 Presents the principles theory methods and applications of landscape ecology and is supplemented by numerous examples and case studies from a variety of systems

Quantitative Analyses in Wildlife Science Leonard A. Brennan, Andrew N. Tri, Bruce G. Marcot, 2019-09-10 An authoritative guide to quantitative methods that will help wildlife scientists improve analysis and decision making Over the past fifty years wildlife science has become increasingly quantitative But to wildlife scientists many of whom have not been formally trained as biometricians computer modelers or mathematicians the wide array of available techniques for analyzing wildlife populations and habitats can be overwhelming This practical book aims to help students and professionals alike understand how to use quantitative methods to inform their work in the field Covering the most widely used contemporary approaches to the analysis of wildlife populations and habitats *Quantitative Analyses in Wildlife Science* is divided into five broad areas general statistical methods demographic estimation dynamic process modeling analysis of spatially based data on animals and resources numerical methods Addressing a variety of topics from population estimation and growth trend predictions to the study of migration patterns this book presents fresh data on such pressing issues as sustainable take control of invasives and species reintroduction Authored by leading researchers in wildlife science each chapter considers the structure of data in relation to a particular analytical technique as well as the structure of variation in those data Providing conceptual and quantitative overviews of modern analytical methods the techniques covered in this book also apply to conservation research and wildlife policy Whether a quick refresher or a comprehensive introduction is called for *Quantitative Analyses in Wildlife Science* is an indispensable addition to every wildlife professional's bookshelf Contributors William M Block Leonard A Brennan Stephen T Buckland Christopher C Chizinski Evan C Cooch Raymond J Davis Stephen J DeMaso Randy W DeYoung Jane Elith Joseph J Fontane Julie A Heinrichs Mevin B Hooten Julianna M A Jenkins Zachary S Laden Damon B Lesmeister Daniel Linden Jeffrey J Lusk Bruce G Marcot David L Miller Michael L Morrison Eric Rexstad Jamie S Sanderlin Joseph P Sands Erica F Stuber Chris Sutherland Andrew N Tri David B Wester Gary C White Christopher K Williams Damon L

Williford *Population Genomics: Wildlife* Paul A. Hohenlohe, Om P. Rajora, 2020-12-09 Population genomics is revolutionizing wildlife biology conservation and management by providing key and novel insights into genetic population and landscape level processes in wildlife with unprecedented power and accuracy This pioneering book presents the advances and potential of population genomics in wildlife outlining key population genomics concepts and questions in wildlife biology population genomics approaches that are specifically applicable to wildlife and application of population genomics in wildlife population and evolutionary biology ecology adaptation and conservation and management It is important for students researchers and wildlife professionals to understand the growing set of population genomics tools that can address issues from delineation of wildlife populations to assessing their capacity to adapt to environmental change This book brings together leading experts in wildlife population genomics to discuss the key areas of the field as well as challenges opportunities and future prospects of wildlife population genomics *Applied Environmental Genomics* Oliver F. Berry, Clare E. Holleley, Simon N. Jarman, 2023-12-01 DNA is the essence of life and the original big data New technologies are allowing scientists to access and make sense of this information like never before and they are using it to solve the world's greatest environmental challenges Applied Environmental Genomics synthesises the latest and most exciting uses of genomic technologies for environmental science and management With an emphasis on diversity of applications and real world demonstrations leading researchers have contributed detailed chapters on innovative approaches to obtaining critical management relevant information about the natural world These chapters are complemented by perspective sections written by environmental managers who describe their experiences using genomics to support evidence based decisions Ideal for students researchers and professionals working in natural resource management and policy Applied Environmental Genomics is a comprehensive introduction to a fast moving field that is transforming the practice of environmental management with profound relevance to industry government and the public **Plant Pangenomes and Pangenomics** Jen-Tsung Chen, 2025-08-01 Plant Pangenomes and Pangenomics summarizes the current state of plant pangenomes and pangenomics as applied in a wide range of plant biology involving the subtopics of genome evolution phenotypic evolution population genetics and evolutionary developmental biology Explaining the resources and technologies of pangenomics with plant functional genomics the book also presents precision molecular breeding of crops to produce improved stress tolerance and climate smart capacities in an attempt to improve growth development enhanced production and quality It covers key critical stressors including temperature salt drought pollutants pests fungi bacteria and viruses This book is a complete guide for students researchers experts and professors with its discussions on all aspects of pangenomes and pangenomics from fundamental and advanced tools and current applications in the plant sciences to plant functional genomics plant stress physiology plant biotechnology plant pathology and plant breeding Focuses on advanced tools and recent applications of plant pangenomes and pangenomics and their integration with functional genomics Summarizes current achievements of

plant pangenomics in stress physiology and an array of major research fields Provides the findings of pangenomics in plant evolutionary developmental biology **Ecology of High Altitude Waters** Dean Jacobsen, Olivier Dangles, 2017-08-18 Truly high altitude aquatic ecosystems are found primarily at lower latitudes vast regions in the tropical part of the Andes the Himalayas and Tibet considerable areas in East Africa and minor zones of Oceania However despite their abundance in these regions their biology and ecology has never been summarized in detail A current synthesis of the topic is therefore timely High altitude waters are ideal systems with which to address a broad range of key and topical themes in ecology both at the regional and global scales From specific functional adaptations of aquatic species to harsh environmental conditions through to global diversity patterns along altitudinal gradients and extinction risks of mountain populations due to vanishing glaciers ecological patterns and processes found in high altitude waters are both diverse and singular Although poorly considered in classical textbooks of ecology and limnology high altitude waters have much to offer existing aquatic ecological theories and applications These often threatened and exploited habitats are also ideal for studying the intimate interactions between social and ecological systems that characterize the majority of ecosystems in the Anthropocene **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

Advances in 3D Habitat Mapping of Marine Ecosystem Ecology and Conservation Renata Ferrari, Manuel Gonzalez-Rivero, Javier Xavier Leon, John H. R. Burns, Will F. Figueira, Stuart A. Sandin, Andrew J. Davies, 2022-02-16

Pollination in Plants Phatlane William Mokwala, Phetole Mangena, 2018-06-06 Plants are the basic source of food for both humans and animals Most of the food is made of fruits and seeds For these to be formed pollination must first take place This

process is the transfer of pollen grains from the anther which is the male structure of the flower to the stigma on the female structure of the flower The transfer process requires agents to be carried out The agents can be either biotic or abiotic Nature perfected this arrangement between the pollination agents and the plants As ecosystems and agricultural systems are changing this balanced arrangement becomes disturbed This makes it necessary that pollination systems be studied so that necessary measures can be undertaken to ensure productivity The chapters of this book present results in research undertaken to improve productivity in crops such as *Actinidia chinensis* the kiwifruit *Theobroma cacao* cocoa and *Manicaria saccifera* a tropical forest palm Some results are presented on tests to check the viability of pollen grains and the delivery of sperm cells through pollen tubes to the embryo sac These results can serve as guidelines to any person seeking to improve pollination and productivity or to check the efficiency on pollination in ecosystems or agricultural production systems

Conservation and the Genomics of Populations Frederick William Allendorf, W. Chris Funk, Sally N. Aitken, Margaret Byrne, Gordon Luikart, 2022 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

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