

Book And Landscape Genetics Concepts Methods Applications

Jen-Tsung Chen

Book And 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 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 **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 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 an 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 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 **Ecological Connectivity of Forest** Ecosystems Katharina Lapin, Janine Oettel, Martin Braun, Heino Konrad, 2025-05-29 This is an open access book This professional volume provides scientific background and practical guidance on forest management in light of ecological connectivity Readers will gain a great understanding of shifting species in response to climate change and the resulting loss of various resources The main drivers of these variations are the quality of the availability quantity and quality of habitats in the landscape the genetic diversity of species populations and the ability to navigate through a fragmented landscape matrix The connectivity of habitats is gaining importance in the combat of both the biodiversity crisis and the climate change crisis Improving ecological connectivity however does not automatically benefit all species as the examples described in the book demonstrate Specific planning tools active monitoring protocols and management measures are needed to increase the benefit for species with low dispersal and small population size which generally fail to migrate Assisted migration can help to prevent species extinction but also offer opportunities for pathogens to cross geographical barriers. The vast majority of the known diversity of plants fungi vertebrates and invertebrates depends on forest ecosystems. This volume helps to spread this message and prepare students for their later careers in the forestry sector while also informing active practitioners and Population Genomics Om P. Rajora, 2019-01-07 Population genomics has revolutionized various disciplines policy makers 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 individualloci 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 **Intelligent Information Technologies:** Concepts, Methodologies, Tools, and Applications Sugumaran, Vijayan, 2007-11-30 This set compiles more than 240 chapters from the world's leading experts to provide a foundational body of research to drive further evolution and innovation of these next generation technologies and their applications of which scientific technological and commercial communities have only begun to scratch the surface Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2015-06-30 From driverless cars to vehicular networks recent technological advances are being employed to increase road safety and improve driver satisfaction As with any newly developed technology researchers must take care to address all concerns limitations and dangers before widespread public adoption Transportation Systems and Engineering Concepts Methodologies Tools and Applications addresses current trends in transportation technologies such as smart cars green technologies and infrastructure development This multivolume book is a critical reference source for engineers computer scientists transportation authorities students and practitioners in the field of transportation systems management Sağlık Profesyonelleri İçin Tıbbi Biyoloji ve Genetik Gülşen Güçlü, Sevda Hastaoğlu Örgen, Ayça Taş, Ebru Derelli Tüfekçi, Ertan Mahir Korkmaz, Hasan Hüseyin Başıbüyük, Mahir Budak, Mehmet Gülmez, Melissa Şafak Salman, Özgül Doğan, Sebahattin Karabulut, Serhat Bozkurt, Serhat

Sirekbasan, Songül Ulusov, Tuğba Gürkök Tan, Zevnep Deniz Sahin İnan, 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 sigma 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 to Primate Conservation Serge A. Wich, Andrew J. Marshall, 2016 This book provides a comprehensive and state of the art synthesis of research principles and applied management practices for primate conservation Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book Richard A. McPherson, Matthew R. Pincus, 2021-06-09 For more than 100 years Henry's Clinical Diagnosis and Management by Laboratory Methods has been recognized as the premier text in clinical laboratory medicine widely used by both clinical pathologists and laboratory technicians Leading experts in each testing discipline clearly explain procedures and how they are used both to formulate clinical diagnoses and to plan patient medical care and long term management Employing a multidisciplinary approach it provides cutting edge coverage of automation informatics molecular diagnostics proteomics laboratory management and quality control emphasizing new testing methodologies throughout Remains the most comprehensive and authoritative text on every aspect of the clinical laboratory and the scientific foundation and clinical application of today s complete range of laboratory tests Updates include current hot topics and advances in clinical laboratory practices including new and extended applications to diagnosis and management New content covers next generation mass spectroscopy MS coagulation testing next generation sequencing NGS transfusion medicine genetics and cell free DNA therapeutic antibodies targeted to tumors and new regulations such as ICD 10 coding for billing and reimbursement Emphasizes the clinical interpretation of laboratory data to assist the clinician in patient management Organizes chapters by organ system for quick access and highlights information with full color illustrations tables and diagrams Provides quidance on error detection correction and prevention as well as cost effective test selection Includes a chapter on Toxicology and Therapeutic Drug Monitoring that discusses the necessity of testing for therapeutic drugs that are more frequently being abused by users Enhanced eBook version included with purchase Your

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Technologies for Urban and Spatial Planning: Virtual Cities and Territories Pinto, Nuno Norte, 2013-07-31 This book covers a multitude of newly developed hardware and software technology advancements in urban and spatial planning and architecture drawing on the most current research and studies of field practitioners who offer solutions and recommendations for further growth specifically in urban and spatial developments

Multiple Sclerosis Immunology
Takashi Yamamura, Bruno Gran, 2013-09-14 The availability of powerful genome wide association study technology during the last five years has shown that most of the new MS susceptibility loci are immune response genes It is clear that there is much novelty in the field of MS immunology which has served as an impetus to invest in new therapies Notably most if not all of these are immunotherapies Even the equally exciting field of cell based therapies and neuro regeneration may well rely on cells or growth factors that are no less immunomodulators than restorative of myelin and neural cell function Multiple Sclerosis Immunology looks at MS immunology as the basis for the present and even more the future of treatments for this complex autoimmune condition Both editors are immunologists as well as clinical neurologists and appreciate the importance of a sustained dialogue between basic and clinical scientists to ensure that translation is real and not just virtual

Antelope Conservation Jakob Bro-Jorgensen, David P. Mallon, 2016-08-08 Antelopes constitute a fundamental part of ecosystems throughout Africa and Asia where they act as habitat architects dispersers of seeds and prey for large carnivores The fascication they hold in the human mind is evident from prehistoric rock paintings and ancient Egyptian art to today s wildlife documentaries and popularity in zoos In recent years however the spectacular herds of the past have been decimated or extripated over wide areas in the wilds and urgent conservation action is needed to preserve this world heritage for generations to come As the first book dedicated to antelope conservation this volume sets out to diagnose the causes of the drastic declines in antelope biodiversity and on this basis identify the most effective points of action In doing so the book covers central issues in the current conservation debate especially related to the management of overexploitation habitat fragmentation disease transmission climate change populations genetics and reintroductions. The contributions are authored by world leading experts in the field and the book is a useful resource to conservation scientists and practitioners researchers and students in related disciplines as well as interested lay people **Encyclopedia of Biodiversity** ,2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life

sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms

Handbook of Road Ecology Rodney van der Ree, Daniel J. Smith, Clara Grilo, 2015-06-15 Winner of the IENE Project Award 2016 This authoritative volume brings together some of the world's leading researchers academics practitioners and transportation agency personnel to present the current status of the ecological sustainability of the linear infrastructure primarily road rail and utility easements that dissect and fragment landscapes globally It outlines the potential impacts demonstrates how this infrastructure is being improved and how broad ecological principles are applied to mitigate the impact of road networks on wildlife Research and monitoring is an important aspect of road ecology encompassing all phases of a transportation project This book covers research and monitoring to span the entire project continuum starting with planning and design through construction and into maintenance and management It focuses on impacts and solutions for species groups and specific regions with particular emphasis on the unique challenges facing Asia South America and Africa Other key features Contributions from authors originating from over 25 countries including from all continents Each chapter summarizes important lessons and includes lists of further reading and thoroughly up to date references Highlights principles that address key points relevant to all phases in all road projects Explains best practices based on a number of successful international case studies Chapters are stand alone but they also build upon and complement each other extensive cross referencing directs the reader to relevant material elsewhere in the book Handbook of Road Ecology offers a comprehensive summary of approximately 30 years of global efforts to quantify the impacts of roads and traffic and implement effective mitigation As such it is essential reading for those involved in the planning design assessment and construction of new roads the management and maintenance of existing roads and the modifying or retrofitting of existing roads and problem locations This handbook is an accessible resource for both developed and developing countries including government transportation agencies Government environmental conservation agencies NGOs and road funding and donor organisations

This book delves into Book And Landscape Genetics Concepts Methods Applications. Book And Landscape Genetics Concepts Methods Applications is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Book And Landscape Genetics Concepts Methods Applications, encompassing both the fundamentals and more intricate discussions.

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 - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Book And Landscape Genetics Concepts Methods Applications.

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