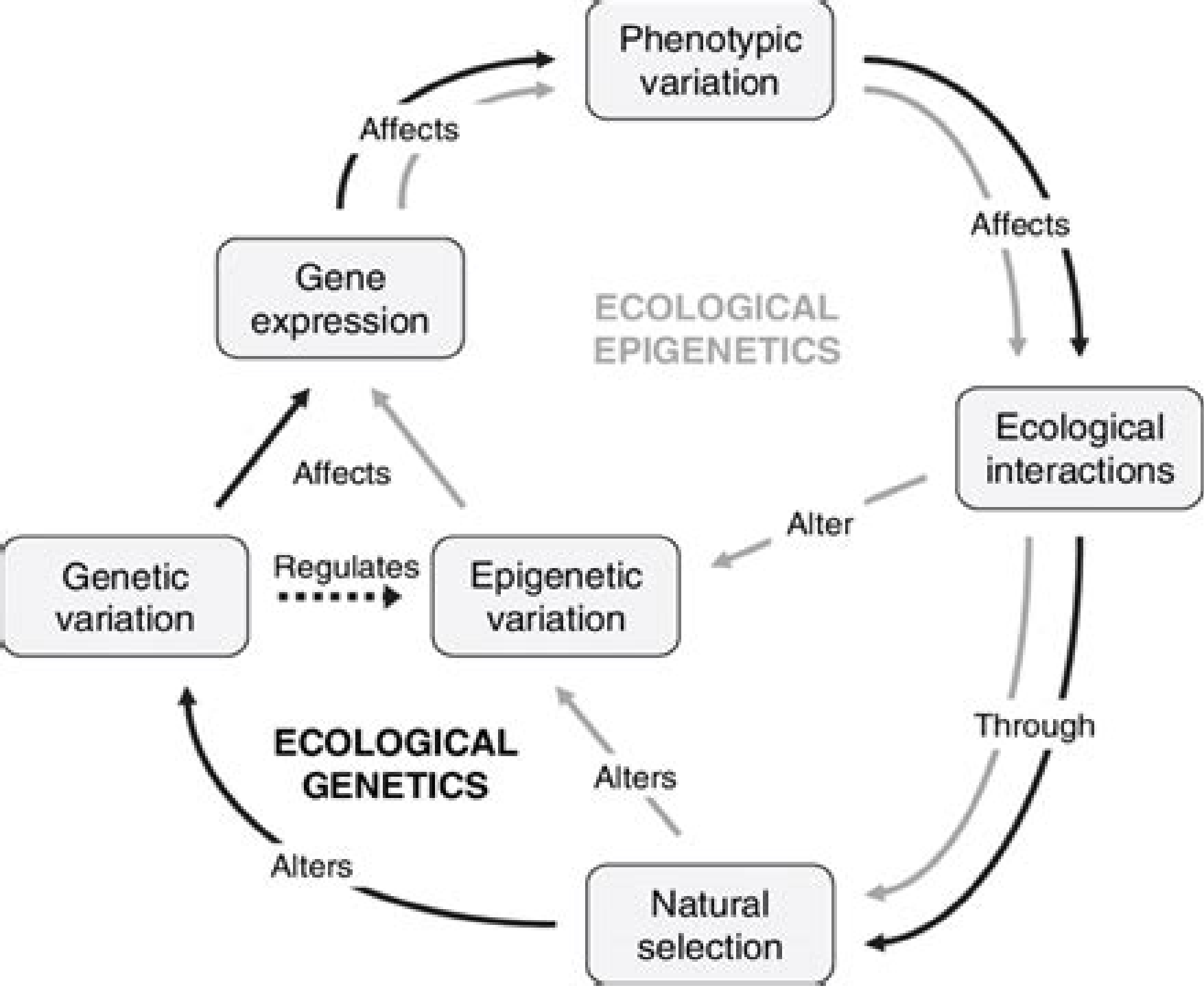




A Primer Of Ecological Genetics

Asher D. Cutter



A Primer Of Ecological Genetics:

A Primer of Ecological Genetics Jeffrey K. Conner, Daniel L Hartl, 2004 *A Primer of Population Genetics and Genomics* Daniel L. Hartl, 2020-06-18 A Primer of Population Genetics and Genomics has been completely revised and updated to provide a concise but comprehensive introduction to the basic concepts of population genetics and genomics Recent textbooks have tended to focus on such specialized topics as the coalescent molecular evolution human population genetics or genomics This primer bucks that trend by encouraging a broader familiarity with and understanding of population genetics and genomics as a whole The overview ranges from mating systems through the causes of evolution molecular population genetics and the genomics of complex traits Interwoven are discussions of ancient DNA gene drive landscape genetics identifying risk factors for complex diseases the genomics of adaptation and speciation and other active areas of current research The principles are illuminated by numerous examples from a wide variety of animals plants microbes and human populations The approach also emphasizes learning by doing which in this case means solving numerical or conceptual problems The rationale behind this is that the use of concepts in problem solving lead to deeper understanding and longer knowledge retention This accessible introductory textbook is aimed principally at students of various levels and abilities from senior undergraduate to postgraduate as well as practising scientists in the fields of population genetics ecology evolutionary biology computational biology bioinformatics biostatistics physics and mathematics **California Grasslands** Mark R. Stromberg, Jeffrey D. Corbin, Carla D'Antonio, 2007-12-03 This highly synthetic and scholarly work brings together new and important scientific contributions by leading experts on a rich diversity of topics concerning the history ecology and conservation of California's endangered grasslands The editors and authors have succeeded admirably in drawing from a great wealth of recent research to produce a widely accessible and compelling state of the art treatment of this fascinating subject Anyone interested in Californian biodiversity or grassland ecosystems in general will find this book to be an invaluable resource and a major inspiration for further research management and restoration efforts Bruce G Baldwin W L Jepson Professor and Curator UC Berkeley Grasses and grasslands are among the most important elements of the California landscape This is their book embodying the kind of integrated view needed for all ecological communities in California Approaches ranging across an incredibly broad spectrum paleontology and human history basic science and practical management techniques systematics community ecology physiology and genetics physical factors such as water soil nutrients atmospheric and fire biological factors such as competition symbiosis and grazing are nicely tied together due to careful editorial work This is an indispensable reference for everyone interested in the California environment Brent Mishler Director of the University Jepson Herbaria and Professor of Integrative Biology UC Berkeley The structure and function of California grasslands have intrigued ecologists for decades The editors of this volume have assembled a comprehensive set of reviews by a group of outstanding authors on the natural history structure management and restoration of this economically

and ecologically important ecosystem Scott L Collins Professor of Biology University of New Mexico A Primer of Molecular Population Genetics Asher D. Cutter, 2019-06-06 What are the genomic signatures of adaptations in DNA How often does natural selection dictate changes to DNA How does the ebb and flow in the abundance of individuals over time get marked onto chromosomes to record genetic history Molecular population genetics seeks to answer such questions by explaining genetic variation and molecular evolution from micro evolutionary principles It provides a way to learn about how evolution works and how it shapes species by incorporating molecular details of DNA as the heritable material It enables us to understand the logic of how mutations originate change in abundance in populations and become fixed as DNA sequence divergence between species With the revolutionary advances in genomic data acquisition understanding molecular population genetics is now a fundamental requirement for today's life scientists These concepts apply in analysis of personal genomics genome wide association studies landscape and conservation genetics forensics molecular anthropology and selection scans This book introduces in an accessible way the bare essentials of the theory and practice of molecular population genetics Ecological Genetics Andrew Lowe, Stephen Harris, Paul Ashton, 2009-04-01 Ecological Genetics addresses the fundamental problems of which of the many molecular markers should be used and how the resulting data should be analysed in clear accessible language suitable for upper level undergraduates through to research level professionals A very accessible straightforward text to deal with this difficult topic applying modern molecular techniques to ecological processes Written by active researchers and teachers within the field There will be an accompanying web site managed by the authors comprising of worked examples test data sets and hyperlinks to relevant web pages Ecological Genetics Leslie Real, 2017-03-14 This volume represents work by five distinguished ecological geneticists offering an up to date source for theoretical concepts and experiments in an exciting field Combining ecological fieldwork and laboratory genetics ecological genetics examines the adjustments and adaptations of wild populations to their environments Articles focus on important interactions between genetics and population ecology delving into issues like gene flow and migration population differentiation the maintenance of genetic variation and the demographic and spatial structure of populations The contributors Janis Antonovics Michael Lynch Montgomery Slatkin Joseph Travis and Sara Via emphasize the importance of population size and structure interaction between local selection and genetic drift and an expanded phenotype including quantitative as well as qualitative characters This new form of ecological genetics focuses on large scale geographic variation in demographic and genetic dynamics among small partially isolated populations and will prove extremely valuable in natural resource management and in rare or endangered species conservation Originally published in 1994 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase

access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Ecological Genetics** David J. Merrell, 1981 Invasion Genetics Spencer C. H. Barrett, Robert I. Colautti, Katrina M. Dlugosch, Loren H. Rieseberg, 2016-07-15 Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes An Introduction to Molecular Ecology Trevor Beebee, Graham Rowe, 2008 How do we know whether a particular species is monogamous or promiscuous How can we monitor the illegal trafficking of wildlife How can we differentiate between the many similar species making up a microbial community An Introduction to Molecular Ecology introduces the latest molecular concepts and techniques demonstrating how genetic markers and molecular tools can be used to answer such ecological questions Such questions whose answers were previously out of our reach can now be probed thereby revolutionizing our understanding of ecological systems and phenomena Blending conceptual detail with the most instructive examples An Introduction to Molecular Ecology is an ideal resource for those new to the subject needing to develop a strong working understanding of the field The book captures the broad scope of the subject exploring the use of molecular tools in the context of topics including behavioral genetics phylogeography microbial ecology and conservation Features Demonstrates the power of molecular ecology as a research tool in a style ideally suited for an undergraduate audience Uses practical examples to demonstrate the latest methods and concepts rather than relying exclusively on theoretical models Blends factual content with tools for active learning An Introduction to Molecular Ecology Graham Rowe, Michael Sweet, Trevor John Clark Beebee, 2017 Revised edition of Introduction to molecular ecology Trevor J C Beebee Graham Rowe 2008 2nd ed

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