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of ecological genomics aim to determine how a genome or a population of genomes interacts with its environment across ecological and evolutionary timescales. Ecological genomics is trans-disciplinary by nature. Ecologists have turned to genomics to be able to elucidate the mechanistic bases of the biodiversity their

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research tries to  
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Ecological Genomics  
covers 3 fields of  
research that have most

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benefited from the recent technological and conceptual developments in the field of ecological genomics: the study of life-history evolution and its impact of genome architectures; the study of the genomic bases of phenotypic plasticity and the study of the genomic bases of adaptation and



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Ecology; November 12,  
2020 ... Using  
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found that the field  
observations supported  
his connectivity and  
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"As expected, we

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Applying environmental  
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Introduction.

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aim to determine how a  
genome or a population  
of genomes interacts  
with its environment  
across ecological and  
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Ecological Genomics |  
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Often associated with evolutionary,

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population, or functional genomics, with which it shares many of the same analytical tools and technologies, ecological genomics addresses interactions between environments and genomes, with the goal of gaining a better understanding of the roles organisms play in their ecosystems.

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suitability and  
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environmental stressors,  
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meets community-level  
modelling of ...

Ecological genetics is  
the study of genetics in  
natural populations.

Traits in a population  
can be observed and  
quantified to represent a  
species adapting to a  
changing environment.

This contrasts with  
classical genetics, which  
works mostly on crosses

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between laboratory strains, and DNA sequence analysis, which studies genes at the molecular level.

Research in this field is on traits of ecological significance—that is, traits related to fitness, which affect an organism's survival and ...

Ecological genetics -  
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Ecological Genetics and Genomics publishes ecological studies of broad interest that provide significant insight into ecological interactions or/ and species diversification. New data in these areas are published as research papers, or methods and resource reports that provide

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adaptation and species  
survival. Our research  
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themes, and are centred  
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region, with a focus on  
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nature. Ecologists have turned to genomics to be able to elucidate the mechanistic bases of the biodiversity their research tries to understand. Genomicists have turned to ecology in order to better explain the functional cellular and molecular variation they observed in their model organisms. We provide an advanced-

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and its impact of  
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This book covers basic concepts in population and quantitative genetics, including measuring selection on phenotypic traits. The emphasis is on material applicable to field studies of evolution focusing on ecologically important traits. Topics addressed are critical for training students in



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ecology, evolution,  
conservation biology,  
agriculture, forestry, and  
wildlife management.

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are too complex and  
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explained, but at a less advanced level-as tools to improve understanding of biological principles.

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how diverse concepts  
relate to each other.

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overview of genomics

and related concepts. It  
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data. Provides the reader  
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The origin of biological diversity, via the formation of new species, can be inextricably linked to adaptation to the ecological environment. Specifically, ecological processes are central to the formation of new species when barriers to gene flow (reproductive isolation) evolve

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between populations as a result of ecologically-based divergent natural selection. This process of 'ecological speciation' has seen a large body of particularly focused research in the last 10-15 years, and a review and synthesis of the theoretical and empirical literature is now timely. The book begins by clarifying

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the approaches and experiments which might be used to conduct that future work. The ecological and genetic literature is integrated throughout the text with the goal of shedding new insight into the speciation process, particularly when the empirical data is then further integrated with theory.



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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

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questions with

unprecedented power  
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employs large-scale or

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provides a

comprehensive genome-

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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

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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

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evolution, effective

population size, gene

flow, admixture,

inbreeding and

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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

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This Population  
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discusses the concepts,  
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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,



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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.

Here is a manual for an environmental scientist who wishes to embrace

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genomics to answer environmental questions. The volume covers: gene expression profiling, whole genome and chromosome mutation detection, and methods to assay genome diversity and polymorphisms within a particular environment. This book provides a systematic framework for determining

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