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Bottleneck

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~~Relationships~~

**Myths and
misconceptions
about evolution**

- Alex Gendler

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and population

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rapid adaptation

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genetics (Hardy

Weinberg

equilibrium)

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The advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics.

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Population And Microevolutionary Theory takes a modern approach to population genetics, incorporating modern molecular biology, species-level evolutionary biology, and a thorough

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acknowledgment
of quantitative
genetics as the
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basis for
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genetics.

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revolutionized

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quantitative genetics and its relevance for population genetics.

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biology, species-level evolutionary biology, and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics.

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BASIC PREMISES OF POPULATION GENETICS. Microevolutionary mechanisms work upon genetic variability, so it is not surprising that the fundamental premises that

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underlie
population
genetic theory
and practice all
deal with
various
properties of
deoxyribonucleic
acid (DNA), the
molecule that
encodes genetic
information in
most organisms.

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Theory takes a
modern approach
to population
genetics,

incorporating
modern molecular
biology, species-

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om advertenties
weer te geven.

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made possible by
the development
of molecular
techniques have
in recent years

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revolutionized quantitative genetics and its relevance for population genetics.

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Genetics and Mic

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Genetics And Microevolutionary Theory Explore the fundamentals of the

biological implications of population genetic theory

In the newly

revised Second Edition of

Population

Genetics and Microevolutionary

Genetics and Microevolutionary

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Theory, Genetics And Microevolutionary Theory
accomplished researcher and author Alan R. Templeton delivers a fulsome discussion of population genetics with coverage of exciting new developments in the field,

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including new discoveries in epigenetics and genome-wide studies. The book prepares students to successfully apply population genetics analytical tools by providing a solid foundation in microevolutio

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nary theory. The

book emphasizes
that population
structure forms

the underlying
template upon
which

quantitative
genetics and
natural
selection

operate and is a
must-read for
future

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Genetics And Microevolutionary Theory
population and evolutionary geneticists and those who wish to work in genetic epidemiology or conservation biology. You'll learn about a wide array of topics, including quantitative

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Genetics, the M
interactions of
natural
Theory
selection with

other

evolutionary

forces, and

selection in

heterogeneous

environments and

age-structured

populations.

Appendices that

cover genetic

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Genetics And M

techniques and
probability and
statistics

conclude the
book. Readers
will also
benefit from the
inclusion of: A
thorough
introduction to
population
genetics,
including the

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icroevolutionary
Theory

Scope of the
subject, its
premises, and
the Hardy-

Weinberg Model
of

Microevolution

An exploration
of systems of
mating,
including a
treatment of the
use of runs of
homozygosity to

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show pedigree
inbreeding in
distant
ancestors A
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discussion of
genetic drift,
including the
use of effective
sizes in
conservation
biology (with a
discussion of
African rhinos

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(as an example) A

concise
examination of
coalescence,

including a
treatment of the
infinite sites

model Perfect

for graduate

students in

genetics and

evolutionary

biology programs

and advanced

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undergraduate and
biology majors,
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roevolutionary

Theory will also
earn a place in
the libraries of
students taking
courses in

conservation

biology, human
genetics,

bioinformatics,

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acknowledgment
of quantitative
genetics as the
theoretical

basis for
population
genetics.

Logically
organized into
three main
sections on
population
structure and
history, genotyp

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e-phenotype And M
interactions,
and selection/ad
aptation

Extensive use of
real examples to
illustrate
concepts Written
in a clear and
accessible
manner and
devoid of
complex
mathematical

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Equations And M

Includes the
author's

introduction to
background

material as well
as a conclusion

for a handy
overview of the
field and its

modern
applications

Each chapter
ends with a set

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of review And M
questions and
answers Offers
helpful general
references and
Internet links

Introductory
guide to human
population
genetics and mic
roevolutionary
theory Providing
an introduction

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to mathematical
population
genetics, Human
Population

Genetics gives
basic background
on the
mechanisms of
human
microevolution.

This text
combines
mathematics,
biology, and

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icroevolutionary

Theory

and graduate

study. Thorough

and accessible,

Human Population

Genetics

presents

concepts and

methods of

population

genetics

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Specific to human population study, utilizing uncomplicated mathematics like high school algebra and basic concepts of probability to explain theories central to the field. By describing changes in the

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frequency of
genetic variants
from one
generation to
the next, this
book hones in on
the mathematical
basis of
evolutionary
theory. Human
Population
Genetics
includes:
Helpful formulae

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for learning

ease Graphs and analogies that

make basic

points and

relate the

evolutionary

process to

mathematical

ideas Glossary

terms marked in

boldface within

the book the

first time they

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appear In-text citations that act as reference points for

further research

Exemplary case

studies Topics

such as Hardy-

Weinberg

equilibrium,

inbreeding,

mutation,

genetic drift,

natural

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Genetics, and M
gene flow Human
Population
Genetics

solidifies

knowledge

learned in

introductory

biological

anthropology or

biology courses

and makes it

applicable to

genetic study.

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the first
edition can be
found at the
author's

website: [http://
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a.edu/relethjh/H
PG/errata.pdf](http://employees.oneonta.edu/relethjh/HPG/errata.pdf)

What are the
genomic
signatures of
adaptations in

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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

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icroevolutionary
Theory

genetics seeks
to answer such
questions by

explaining

genetic

variation and

molecular

evolution from m

icro-

evolutionary

principles. It

provides a way

to learn about

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Genetics And Microevolutionary Theory
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

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Population

abundance in
populations, and
become fixed as
DNA sequence
divergence
between species.
With the
revolutionary
advances in
genomic data
acquisition,
understanding
molecular
population

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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

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Genetics, And M
forensics,
molecular
Theory

anthropology,
and selection
scans. This book
introduces, in
an accessible
way, the bare
essentials of
the theory and
practice of
molecular
population

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Genetics And M
icroevolutionary
Theory

Human Population
Genetics and
Genomics
provides research
hers/students
with knowledge
on population
genetics and
relevant
statistical
approaches to
help them become

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Genetics And Microevolutionary Theory

more effective users of modern genetic, genomic and statistical tools. In-depth chapters offer thorough discussions of systems of mating, genetic drift, gene flow and subdivided populations, human population

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history, And M
genotype and
phenotype,
detecting
selection, units
and targets of
natural
selection,
adaptation to
temporally and
spatially
variable
environments,
selection in age-

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structured populations, and genomics and society. As human genetics and genomics research often employs tools and approaches derived from population genetics, this book helps users understand the

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Genetics And M

basic principles

of these tools.

In addition,

studies often

employ

statistical

approaches and

analysis, so an

understanding of

basic

statistical

theory is also

needed.

Comprehensively

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explains the use

of population

genetics and

genomics in

medical

applications and

research

Discusses the

relevance of

population

genetics and

genomics to

major social

issues,

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including race and
and the dangers
of modern
eugenics

proposals

Provides an
overview of how
population
genetics and
genomics helps
us understand
where we came
from as a
species and how

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Population

we evolved into
who we are now

The origin of
biological
diversity, via
the formation of
new species, can
be inextricably
linked to
adaptation to
the ecological
environment.
Specifically,

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ecological And Microevolutionary Theory

processes are central to the formation of new species when barriers to gene flow (reproductive isolation) evolve between populations as a result of ecologically-based divergent

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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

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empirical And M
literature is
now timely. The
book begins by
clarifying what
ecological
speciation is,
its
alternatives,
and the
predictions that
can be used to
test for it. It
then reviews the

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three components of ecological speciation and discusses the geography and genomic basis of the process. A final chapter highlights future research directions, describing the approaches and experiments

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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,

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particularly
when the
empirical data
is then further
integrated with
theory.

Genetics and
Evolution of
Infectious
Diseases, Second
Edition,
discusses the
constantly

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evolving field of infectious diseases and their continued impact on the health of populations, especially in resource-limited areas of the world. Students in public health, biomedical

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Professionals, Microevolutionary
clinicians, public health
practitioners,
and decisions-
makers will find
valuable
information in
this book that
is relevant to
the control and
prevention of
neglected and
emerging

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worldwide And M
diseases that
are a major
cause of global
morbidity,
disability, and
mortality.

Although
substantial
gains have been
made in public
health
interventions
for the

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Genetics, And Microevolutionary Theory

treatment, prevention, and control of infectious diseases during the last century, in recent decades the world has witnessed a worldwide human immunodeficiency virus (HIV) pandemic,

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Increasing antimicrobial resistance, and the emergence of many new bacterial, fungal, parasitic, and viral pathogens. The economic, social, and political burden of infectious diseases is most

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evident in
developing
countries which
must confront
the dual burden
of death and
disability due
to infectious
and chronic
illnesses. Takes
an integrated
approach to
infectious
diseases

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Includes And M

contributions
from leading
authorities

Provides the
latest

developments in
the field of
infectious
disease

The Fourth
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Genetics of

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Populations is the most current, comprehensive, and accessible introduction to the field for advanced undergraduate and graduate students, and researchers in genetics, evolution,

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Conservation, and related fields. In the past several years, interest in the application of population genetics principles to new molecular data has increased greatly, and Dr.

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Hedrick's new edition exemplifies his commitment to keeping pace with this dynamic area of study.

Reorganized to allow students to focus more sharply on key material, the Fourth Edition

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integrates coverage of theoretical issues with a

clear

presentation of experimental population genetics and empirical data.

Drawing examples from both recent and classic studies, and

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Using a variety of organisms to illustrate the vast developments of population genetics, this text provides students and researchers with the most comprehensive resource in the field.

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Genetics And M

An integrative
approach linking
the causes of

migration to

genetic

consequences for

human evolution.

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genetics is the

basis of

evolutionary

studies, and has

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been widely used in several researches. This recent field of science has important applications for the management of populations (natural and domesticated), as well as for evolutionary studies of the

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various factors that affect gene frequencies over time and spatial distribution. In this work, presented in three sections (Population and Quantitative Genetics, Genetic Diversity in Crop Management,

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Genetics for
Conservation
Studies), the

reader will find
cutting-edge
information in
carefully
selected and
revised

works. This book
is intended for
all researchers,
academics, and

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students who are interested in the intriguing area of population genetics.

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