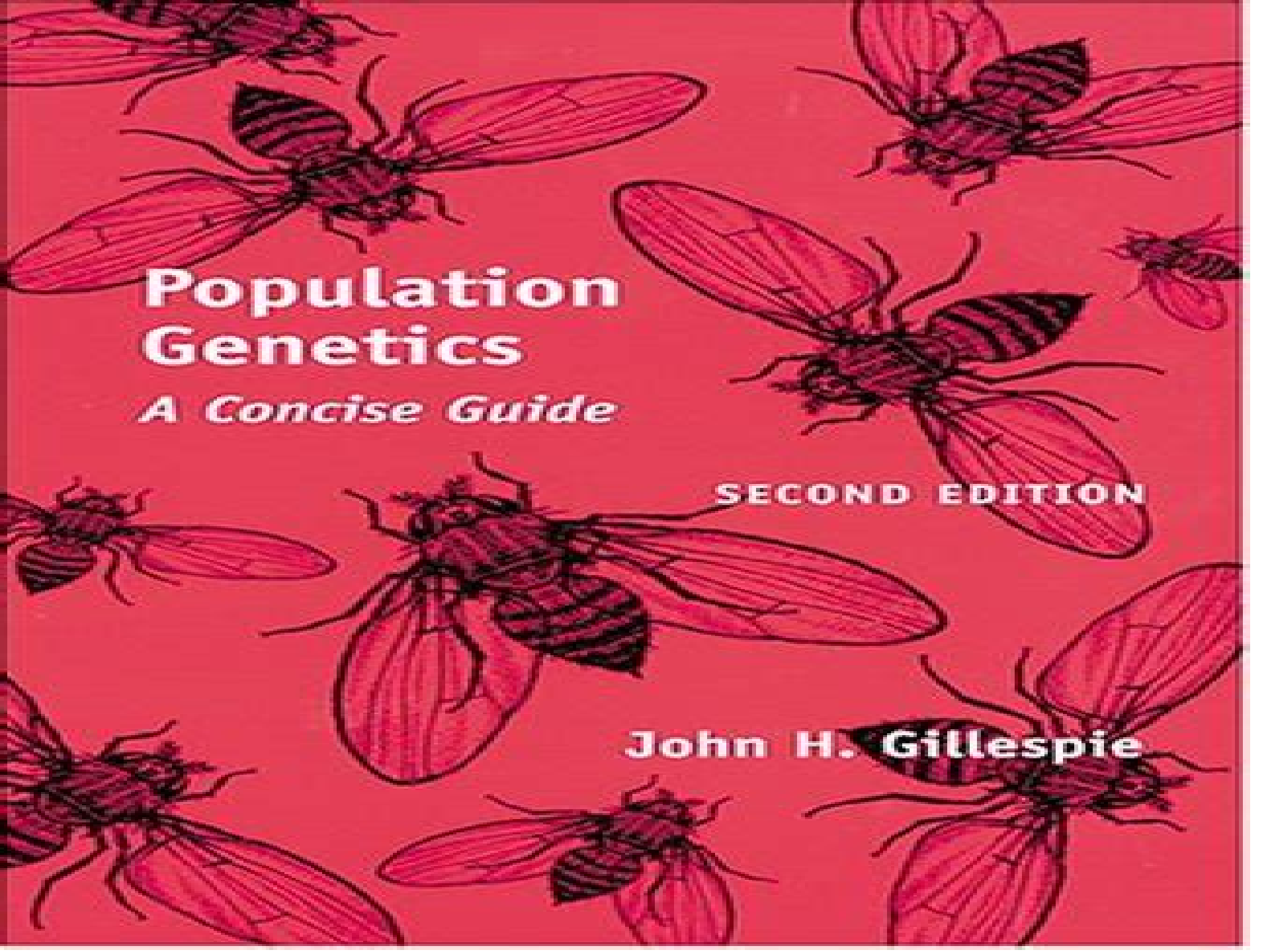


The background of the book cover is a solid red color. It is decorated with a repeating pattern of stylized flies, likely fruit flies, in a dark red or maroon color. The flies are depicted in various orientations, some facing left, some right, and some slightly angled. They have large, transparent wings with visible veins and segmented bodies.

Population Genetics

A Concise Guide

SECOND EDITION

John H. Gillespie

Population Genetics Concise Guide 2nd

John H. Gillespie



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from empirical data and shares strategies that readers can use to apply this mathematical perspective to different kinds of summary statistics including those for measuring biodiversity in ecological communities Drawing inspiration from Charles Darwin who marveled at evolution s endless forms most beautiful and most wonderful this book presents a groundbreaking approach to the study of genetic variation It is sure to stimulate new research in population biology and deeper thinking about the meaning and interpretation of essential measurements of the world s genomes **Phylogenomic Data**

Acquisition W. Bryan Jennings, 2016-12-12 Phylogenomics is a rapidly growing field of study concerned with using genome wide data usually in the form of DNA sequence loci to infer the evolution of genes genomes and the Tree of Life Accordingly this discipline connects many areas in biology including molecular and genomic evolution systems biology molecular systematics phylogeography conservation genetics DNA barcoding and others With the advent of Next Generation Sequencing in addition to advances in computer hardware and software over the past decade researchers can now generate unparalleled phylogenomic datasets that are helping to illuminate many areas in the life sciences This book is an introduction to the principles and practices of gathering these data Phylogenomic Data Acquisition Principles and Practice is intended for a broad cross section of biologists and anyone else interested in learning how to obtain phylogenomic data using the latest methods 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 Complexity and Dynamics , 2017

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