

LANDSCAPE GENETICS: CONCEPTS, METHODS, APPLICATIONS

Edited by Niko Balkenhol, Samuel A. Cushman, Andrew T. Storfer, Lisette P. Waits

About the editors

Niko Balkenhol

Department of Wildlife Sciences, University of Göttingen, Germany

Samuel A. Cushman

Forest and Woodlands Ecosystems Program, Rocky Mountain Research Station,
United States Forest Service, AZ, USA

Andrew T. Storfer

School of Biological Sciences, Washington State University, WA, USA

Lisette P. Waits

Fish and Wildlife Sciences, University of Idaho, Moscow, ID, USA

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.

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