

Molecular Ecology

SECOND EDITION

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Molecular Ecology, 2nd Edition provides an accessible introduction to the many diverse aspects of this subject. The book takes a logical and progressive approach to uniting theory with examples from a wide range of taxonomic groups. The straightforward writing style offers in-depth analysis while making often challenging subjects such as population genetics and phylogenetics highly comprehensible to the reader.

The first part of the book introduces the essential underpinnings of molecular ecology, and includes a review of genetics, a discussion of the molecular markers that are most frequently used in ecological research, and a chapter devoted to the newly emerging field of ecological genomics. The second half of the book covers specific applications of molecular ecology, including phylogeography, behavioural ecology and conservation genetics.

The new edition provides a thoroughly up-to-date introduction to the field, emphasising new types of analyses and including current examples and techniques while also retaining the information-rich, highly readable style which set the first edition apart.

- Incorporates both theoretical and applied perspectives
- Highly accessible, user-friendly approach and presentation
- Includes links to online self-assessment activities with hypothetical cases based on actual species and realistic data sets
- Uses case studies to place the theory in context
- Provides coverage of population genetics, genomics, phylogeography, behavioural ecology and conservation genetics.

Companion Website

Cover design: Gary Thompson



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ISBN 978-0-470-74833-6



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