



A Primer of Ecological Genetics

By Jeffrey K. Conner, Daniel L. Hartl

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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 ecology, evolution, conservation biology, agriculture, forestry, and wildlife management. Many texts in this field are too complex and mathematical to allow the average beginning student to readily grasp the key concepts. A Primer of Ecological Genetics, in contrast, employs mathematics and statistics fully explained, but at a less advanced level as tools to improve understanding of biological principles. The main goal is to enable students to understand the concepts well enough that they can gain entry into the primary literature. Integration of the different chapters of the book shows students how diverse concepts relate to each other.

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A Primer of Ecological Genetics By Jeffrey K. Conner, Daniel L. Hartl Bibliography

- Sales Rank: #711103 in Books
- Published on: 2004-02-01
- Original language: English
- Number of items: 1
- Dimensions: 6.00" h x .80" w x 8.90" l, 1.10 pounds
- Binding: Paperback
- 304 pages

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Editorial Review

Review

I find that this volume will be very useful for both inspired undergraduates who plan on initiating honors studies or independent research, and for beginning graduate students. . . . This primer will help young biologists learn the nuts and bolts of ecological genetics, as well as its practical application --Jeffry B. Mitton, *The Quarterly Review of Biology*

Until now, a textbook aimed at undergraduates and early postgraduates, which integrates both population and quantitative genetics, has been lacking. In six chapters, Conner and Hartl have successfully filled this gap . . . The well-planned structure, easy reading style and extensive coverage make this book valuable not only to undergraduate students but also for population and quantitative geneticists aiming to expand their scope of their own research. --JM Cano Arias, *Heredity*

In sum, *A Primer of Ecological Genetics* provides a lucid introduction to foundational principles in the field. In their preface, Conner and Hartl state, The guiding principle of the book is to focus on clear explanations of the key concepts in the evolution of natural and managed populations. The first edition of *A Primer of Ecological Genetics* accomplishes this nicely. I recommend it with enthusiasm. --Mark C. Ungerer, *BioScience*

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About the Author

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Jimmy Maiden:

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