

# THE CONCEPT OF EFFECTIVE RECOMBINATION RATE AND ITS APPLICATION IN SPECIATION THEORY

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The goal of this study is to develop a unifying theoretical framework to quantify the strength of reproductive isolation. We propose the use of the "effective recombination rate," which measures how fast associations of genes are broken by interlocus recombination. Applying the well-established theory of the effective migration rate, we derive two techniques to investigate the effective recombination rate in models of speciation: the weak migration approximation for parapatric scenarios and the weak recombination approximation for sympatric scenarios. We illustrate the use of these two methods by two examples each: (1) single-locus genetic incompatibility and (2) two-locus genetic incompatibility for the first method, and (3) assortative mating and (4) assortative mating combined with disruptive selection for the second method. An advantage of the effective recombination rate over previous approaches is that it integrates gene flow in both directions into a single index measuring the strength of isolation. This enables straightforward comparisons of speciation scenarios with the same or different geographic histories. The method also allows us to evaluate the relative contributions of F2 hybrid deficiency or linkage between multiple barriers in reproductive isolation.

**KEY WORDS:** Effective migration rate, gene flow, isolating barrier, linkage disequilibrium, reproductive value.

Speciation is one of the fundamental evolutionary puzzles that Darwin essentially failed to address in the *Origin of Species* despite the title of the book. Not to mention empirical researchers (Coyne and Orr 2004; Widmer et al. 2009), this challenging problem intrigued many theoreticians (Turelli et al. 2001; Gavrillets 2004). They contributed numerous mathematical and simulation models, which revealed how species can diverge through various evolutionary mechanisms (Gavrillets 2003, 2004; Dieckmann et al. 2004). Speciation models are still increasing in number, continuously bringing novel ideas and renewing our understanding (e.g., Proulx and Servodio 2009; Barton and de Cara 2009; van Doorn et al. 2009). A consequence of this growth is "balkaniza-

tion" of the subject (Kirkpatrick and Ravigne 2002), which makes synthetic and unifying work important. A major problem in synthesis is, however, that many of the modeling studies focus on conditions for speciation to occur. Given the inherent complexity of speciation, it is usually difficult to extract analytical conditions for speciation from realistic models. Therefore, modelers often use computer simulations with limited parameter values. This makes comparisons between different studies difficult or impossible. Thus, it is an important question what aspect of speciation, if not "occurrence," we can focus on to get a more synthetic view.

We would like to direct attention to consequences of, rather than conditions for, reproductive isolation and speciation, that is,

# Speciation And The Recognition Concept Theory And Application

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Speciation And The Recognition Concept Theory And Application**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Speciation And The Recognition Concept Theory And Application**

1. Understanding the eBook Speciation And The Recognition Concept Theory And Application
  - The Rise of Digital Reading Speciation And The Recognition Concept Theory And Application
  - Advantages of eBooks Over Traditional Books
2. Identifying Speciation And The Recognition Concept Theory And Application
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Speciation And The Recognition Concept Theory And Application
  - User-Friendly Interface
4. Exploring eBook Recommendations from Speciation And The Recognition Concept Theory And Application
  - Personalized Recommendations
  - Speciation And The Recognition Concept Theory And Application User Reviews and Ratings
  - Speciation And The Recognition Concept Theory And Application and Bestseller Lists

5. Accessing Speciation And The Recognition Concept Theory And Application Free and Paid eBooks
  - Speciation And The Recognition Concept Theory And Application Public Domain eBooks
  - Speciation And The Recognition Concept Theory And Application eBook Subscription Services
  - Speciation And The Recognition Concept Theory And Application Budget-Friendly Options
6. Navigating Speciation And The Recognition Concept Theory And Application eBook Formats
  - ePub, PDF, MOBI, and More
  - Speciation And The Recognition Concept Theory And Application Compatibility with Devices
  - Speciation And The Recognition Concept Theory And Application Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Speciation And The Recognition Concept Theory And Application
  - Highlighting and Note-Taking Speciation And The Recognition Concept Theory And Application
  - Interactive Elements Speciation And The Recognition Concept Theory And Application
8. Staying Engaged with Speciation And The Recognition Concept Theory And Application
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Speciation And The Recognition Concept Theory And Application
9. Balancing eBooks and Physical Books Speciation And The Recognition Concept Theory And Application
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Speciation And The Recognition Concept Theory And Application
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Speciation And The Recognition Concept Theory And Application
  - Setting Reading Goals Speciation And The Recognition Concept Theory And Application
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Speciation And The Recognition Concept Theory And Application
  - Fact-Checking eBook Content of Speciation And The Recognition Concept Theory And Application
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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