

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

Yutaka Kobayashi^{1,2} and Arndt Telschow^{3,4,5}

¹Center for Ecological Research, Kyoto University, Otsu, Shiga 520-2113, Japan

²E-mail: yutaka@ecology.kyoto-u.ac.jp

³Helmholtz-center for infectious biology, Braunschweig, Germany

⁴E-mail: Arndt.Telschow@helmholtz-hzi.de

⁵Westfalian Wilhelms University, Muenster, Germany

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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

Robert Andrew Foley, Roger Lewin



Speciation And The Recognition Concept Theory And Application:

Speciation and the Recognition Concept David M. Lambert, Hamish G. Spencer, 1995 Developed by Hugh E H Paterson in the 1970s the Recognition Concept of Species stressed the importance of the Specific Mate Recognition System SMRS and offered a view of species which was radically different from the traditional Isolation Concept Paterson held that new species were formed through incidental changes in the SMRS rather than being directly promoted In the two decades since Paterson first advanced his theory evolutionary biologists around the world have had the opportunity to use this approach in their work Speciation and the Recognition Concept is the first book to bring together a group of leading researchers to examine the relevance of Paterson's ideas today for this important topic in evolutionary biology Representing a wide variety of viewpoints the contributors explore the consequences of applying the concept to areas as diverse as the fossil record insect taxonomy the structure of mate recognition systems speciation models and the concept function in biology The Recognition Concept of species write the editors is important to biology because it represents an innovative approach to the resolution of the problem of biological diversity The concept is based upon an analysis of the logic and language of species studies Consequently it offers significant implications for ideas about the origin of species *Molecular Biology and Genetics of the Lepidoptera* Marian R. Goldsmith, Frantisek Marec, 2009-09-01 Numerous and charismatic the Lepidoptera is one of the most widely studied groups of invertebrates Advances in molecular tools and genomic techniques have reduced the need for large sizes and mass rearing and lepidopteran model systems are increasingly used to illuminate broad based experimental questions as well as those peculiar to butterflies Putting the spotlight on the second most numerous order of insects living today this book provides a summary of cutting edge studies of the Lepidoptera as an organism in and of itself and as model systems Leading researchers discuss symbiosis genomes sex determination natural products ecophysiology sensory systems pest control the sterile insect technique immunity and evolution development Understanding the biology and genetics of butterflies and moths may lead to new species selective methods of control saving billions of dollars in pesticide use and protecting environmental and human health making the sections on pest control and the sterile insect technique extremely important *Evolutionary Genetics* R. S. Singh, Costas B. Krimbas, 2000-03-28 This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology *Vital Apologetic Issues* Roy Check B. Zuck, 2012-12-01 Vital Apologetic Issues Vital pertaining to life essential of critical importance Apologetic a systematic defense of the authenticity and authority of Christian truth Issues a point or matter the decision of which is of special or public importance When it comes to giving a reasoned defense of one's faith just knowing definitions isn't enough It helps to have reliable guidance through the critical issues of apologetics such as philosophical questions regarding the Christian faith or biblical reliability Vital Apologetic Issues Examining Reason and Revelation in Biblical Perspective draws upon the insights and study of numerous evangelical scholars and writers to address crucial questions in the field of Christian apologetics

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Darwin and the Nature of Species David N. Stamos, 2012-02-01 Since the 1859 publication of On the Origin of Species the concept of species in biology has been widely debated with its precise definition far from settled And yet amazingly there have been no books devoted to Charles Darwin s thinking on the term until now David N Stamos gives us a groundbreaking historical reconstruction of Darwin s detailed yet often misinterpreted thoughts on this complex concept Stamos provides a thorough and detailed analysis of Darwin s extensive writings both published and unpublished in order to reveal Darwin s actual species concept Stamos argues that Darwin had a unique evolutionary species concept in mind one that was not at all a product of his time Challenging currently accepted views that believe Darwin was merely following the species ascriptions of his fellow naturalists Stamos works to prove that this prevailing nominalistic view should be overturned This book also addresses three issues pertinent to the philosophy of science the modern species problem the nature of concept change in scientific revolutions and the contextualist trend in professional history of science

Evolution of the House Mouse Miloš Macholán, 2012-07-19 A detailed review of the evolutionary context necessary to interpret patterns and processes in the age of mouse genomics

Principles of Human Evolution Robert Andrew Foley, Roger Lewin, 2013-05-03 Principles of Human Evolution presents an in depth introduction to paleoanthropology and the study of human evolution Focusing on the fundamentals of evolutionary theory and how these apply to ecological molecular genetic paleontological and archeological approaches to important questions in the field this timely textbook will help students gain a perspective on human evolution in the context of modern biological thinking The second edition of this successful text features the addition of Robert Foley a leading researcher in Human Evolutionary Studies to the writing team Strong emphasis on evolutionary theory ecology and behavior and scores of new examples reflect the latest evolutionary theories and recent archaeological finds More than a simple update the new edition is organized by issue rather than chronology integrating behavior adaptation and anatomy A new design and new figure references make this edition more accessible for students and instructors New author Robert Foley leading figure in Human Evolutionary Studies joins the writing team Dedicated website www.blackwellpublishing.com/lewin provides study resources and artwork downloadable for Powerpoint presentations Beyond the Facts boxes explore key scientific debates in greater depth Margin Comments indicate the key points in each section Key Questions review and test students knowledge of central chapter concepts and help focus the way a student approaches reading the text New emphasis on ecological and behavioral evolution in keeping with modern research Fully up to date with recent fossil finds and interpretations integration of genetic and paleoanthropological approaches

Autecology Gimme H. Walter, Rob Hengeveld, 2014-04-24 This book spells out the theoretical structure methodology and

philosophy of the science of autecology The autecological approach focuses on the interactions of individual organisms and their species specific adaptations with the spatio temporal dynamics of their environment as a basis for interpreting patterns of diversity and abundance in nat Parental Care: Evolution, Mechanisms, And Adaptive Significance ,1996-11-18

Advances in the Study of Behavior presents its first thematic volume focusing on the physiological and behavioral mechanisms underlying parental care The book discusses parental care both within and across taxa with coverage of invertebrates and early vertebrates fishes amphibia reptiles mammals birds and nonhuman primates A running theme throughout the chapters shows that parental care is anchored to the ecology reproductive physiology and embryonic development of a species Coverage also includes mechanisms of parental care including analysis of the stimuli that parents respond to and how parental care is initiated maintained and terminated Individual differences within species are also explored examining stable differences in maternal style how they arise and the consequences for both mother and infant

The Phenomenon of Teilhard David H. Lane,1996 New Age writer of the popular Aquarian Conspiracy Marilyn Ferguson observed that many of the leading lights of the New Age movement claim Teilhard as one of the most influential persons in their lives Other influences acknowledged include C G Jung Aldous Huxley Swami Muktananda Thomas Merton Werner Erhard and Maharishi Yogi Indeed of the 185 New Age leaders surveyed Teilhard was the most frequently mentioned of any person who had most influenced their thinking If this is the case then if we are to understand the New Age movement properly it behooves us to take a careful and critical look at Teilhard de Chardin David Lane has done precisely this in a clear well documented and penetrating way In this crucial book David Lane lays bare the philosophical theological and scientific failures of Teilhard s New Age enterprise In a highly documented and insightful scrutiny of Teilhard s cosmic evolution Lane unveils the apostate Christian roots of one of the most important forerunners of the New Age movement This is one of the most significant and serious treatments of the modern roots of the New Age in print

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