

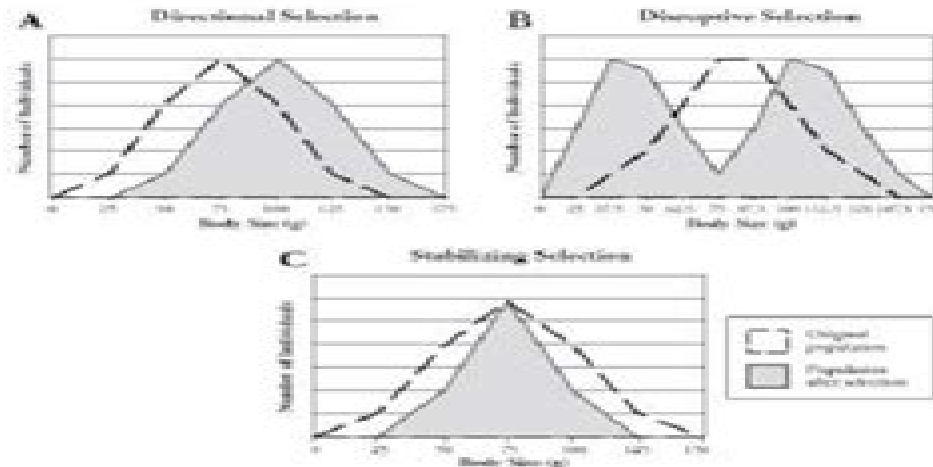
Selection and Speciation

How can changes in a population result in the formation of a new species?

Why?

Have you ever wondered how the great diversity of life on Earth has come about or how a single new species forms? Environmental pressures may cause populations to change over time or evolve. This is because an organism's ability to live to adulthood in its current environment will determine its reproductive success and ability to pass on its genes. But changes within a population can occur without creating a new species. At what point do scientists start thinking of a new name for a species?

Model 1 – Three Types of Selection



1. What variables do the graphs in Model 1 compare?
2. What are the three types of selection illustrated in the graphs in Model 1?
3. According to the graphs in Model 1, there is variation in the body mass in the original population. Using your knowledge of genetics, describe how this variation is possible.
4. Refer to graph A of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. **Fitness** is defined as the relative ability of an individual (or population) to survive, reproduce, and pass on genes. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph A.
5. Refer to graph B of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph B.
6. Refer to graph C of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph C.

Pogil Selection And Speciation

Erin Furtak



Pogil Selection And Speciation:

Supporting Teachers' Formative Assessment Practice with Learning Progressions Erin Furtak, 2017-10-05 This book presents the results of a four year National Science Foundation funded project that engaged nine high school biology teachers at three public high schools in long term on site professional development program centered on a learning progression It explores the influence of teacher participation in this professional development experience on their learning about student thinking formative assessment task design classroom practices and student learning Taking an in depth look at the multiple sources of data gathered as part of the study this volume reflects on the emergence of professional communities focused on formative assessment design and enactments and associations between teacher participation in learning progression centered professional development and student learning

The Role of Selection in Speciation Judith Masters, **Selection and Speciation** MacDonald, Selection, sex, speciation and species Andrew Cockburn, 1991

Speciation in Birds Trevor Price, 2008 In Speciation in Birds Trevor Price a University of Chicago professor and leading expert in the field has written the most authoritative and modern synthesis on the subject to date In clear and engaging prose and through beautiful illustrations Price shows us why the field is as exciting and vibrant as ever He evaluates the roles of natural selection and sexual selection He asks how speciation contributes to some of the great patterns in species diversity such as the large number of species in the tropics and the many endemic species on isolated islands Throughout the book Price emphasizes the integration of behavior ecology and genetics

Speciation and selection Ernst Mayr, 1949 **On the Origin of Species Through Heteropatric Differentiation** Kevin Winker, 2010-11 Differentiation and speciation without extended isolation appear to be common among migratory animals Historical oversight of this is probably due to temporal distortion in distribution maps and a tendency to consider that lineages had different historical traits such as being sedentary or much less mobile Mobility among cyclic migrants makes population isolation difficult and diminished levels of intraspecific differentiation occur in avian migrants I term this Montgomery's rule Nevertheless many lineages have differentiated despite increased mobility and a high propensity for gene flow conditions that speciation theory has not addressed adequately Populations of seasonal migrants usually occur in allopatry and sympatry during a migratory cycle and this distributional pattern heteropatry is the focus of a model empirically developed to explain differentiation in migratory lineages Divergence arises through disruptive selection from resource competition and heterogeneously distributed cyclic resources Heteropatric speciation is a type of ecological speciation in which reproductive isolation increases between populations as a byproduct of adaptation to different environments that enhances breeding allopatry and allochrony despite degrees of sympatry that occur during the nonbreeding period in migration cycles Mating or pair bonding in nonbreeding areas is rare Patterns such as leapfrog migration and limited morphological divergence suggest that differentiation is driven by these ecological factors rather than by sexual selection or nontemporal changes in the resource base itself although the

additional presence of either of the latter would have additive divergent effects Migratory lineages provide a largely neglected series of natural experiments in speciation in which to test predictions stemming from this model and others focusing on ecological speciation

Genetics of Mate Choice: From Sexual Selection to Sexual Isolation W.J. Etges, M.A. Noor, 2012-10-26 Genetic studies aimed at understanding the origin of species are dominating major scientific journals In the past decade genetic tools that were previously available only in model systems have become accessible to investigators working on nearly all species Concurrent with these technical advances has been an increase in understanding of both the importance of considering the ecological context of speciation and testing hypotheses about causes for species formation Many recent studies suggest a prominent role of sexual selection in species formation These advances have produced a need for a synthesis of what we now understand about speciation and perhaps more importantly where we should go from here In this volume several leading investigators and rising stars have contributed reviews and or novel primary research findings aimed at understanding the ultimate mystery on which Darwin named his most famous and influential book Fundamental to the origin of species is the evolution of mate choice systems This collection of papers discusses burgeoning genetic evolutionary and ecological approaches to understanding the origins of mating discrimination and causes of premating reproductive isolation both within and between species The individual contributions span a wide spectrum of disciplines taxa and ideas some controversial This synthesis brings together several of the most recent ideas with supporting empirical data This book will be of particular interest to both undergraduate and postgraduate researchers and students and researchers in the field of evolutionary biology genetics and animal behaviour

Natural Selection 71 Success Secrets - 71 Most Asked Questions on Natural Selection - What You Need to Know Kevin Shaffer, 2014-10-01 The best Natural selection Guide you will ever read There has never been a Natural selection Guide like this It contains 71 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Natural selection A quick look inside of some of the subjects covered The Genetical Theory of Natural Selection Genetics and the Origin of Species Natural selection and speciation Evolution of mammalian auditory ossicles Natural selection Thomas Nagel Natural selection and consciousness Natural Selection disambiguation Adaptation and Natural Selection Natural selection Information and systems theory Sexual competition Sexual selection as a toolkit of natural selection Adaptation and Natural Selection Adaption and Selection Natural selection Selection and genetic variation Natural selection Emergence of natural selection The Genetical Theory of Natural Selection Contents Alfred Russel Wallace Differences between Darwin s and Wallace s ideas on natural selection The Genetical Theory of Natural Selection Editions On the Origin of Species by Means of Natural Selection or the Preservation of Favoured Races in the Struggle for Life Summary of Darwin s theory Natural selection General principles Psychological

adaptation Natural Selection as Adaptation Deceased Natural selection Evolution Natural selection Darwin s Dangerous Idea Natural selection as an algorithm Natural selection Social and psychological theory Natural selection Directionality of selection Natural selection Darwin s theory Genetics Natural selection and evolution and much more **Genetics of**

Speciation David L. Jameson,1977 **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 *The Interaction Between Natural and Sexual Selection and the Maintenance of Biological Diversity* Amy K.

Schwartz,2009 **Repeated Trait Evolution Driven by Divergent Natural Selection at Early and Late Stages of Speciation** Spencer J. Ingley,2015 Speciation the process by which new species arise is of fundamental importance in the biological sciences The means by which new species arise and the relationship among living species has been a topic that has captivated both lay and scientific observers for centuries In recent years the study of speciation has enjoyed increased attention resulting in significant advances in our understanding of how species form Although our understanding of the processes that contribute to speciation has increased dramatically in recent years our knowledge of how reproductive barriers accumulate as speciation proceeds is still limited Thus studies that evaluate trait divergence and its consequences at early verses late stages of divergence can provide valuable insight into the speciation process Chapter 1 of my dissertation focuses on the role of animal personality in the speciation process Animal personality defined as consistent individual differences in behavioral tendencies has been identified as a key player in several ecological and evolutionary processes yet the role of personality in speciation remains unexplored In this chapter I discuss the ways by which personality can contribute to a suite of reproductive barriers and drive the speciation process Chapters 2 through 5 provide a case study evaluating how selection acts on traits at early and late stages of speciation using the Neotropical Livebearing fish genus *Brachyrhaphis* as a model system *Brachyrhaphis* is ideally suited for this research because several species pairs and

population pairs within species occur in similarly divergent selective regimes I first present results from a field demographic study that shows that the strength of divergent selection acting on life history traits in populations from divergent predation environments diminishes as speciation proceeds I then show that population pairs at different stages of divergence are evolving similar morphological patterns along parallel trajectories At both early and late stages of divergence populations from environments with dense predator populations have a body shape that appears to be optimized for burst speed swimming and important component of predator escape In contrast populations from environments lacking predators have a body shape optimized for endurance swimming ability which is important in environments where competition for foods and mates is high Next I show that populations from divergent predation environments do indeed differ in their swimming abilities according to our predictions reflecting a population level trade off between burst and endurance swimming ability Although population level trade offs were strong I found no evidence of within population level trade offs suggesting that populations have arrived at novel solutions to between population trade offs that were not present within ancestral populations Finally I show that these specialized swimming modes are locally adaptive and that divergent ecology selects against immigrants effectively reducing gene flow between populations from divergent environments Together these studies provide a valuable glimpse into the repeatability and predictability of trait divergence at different stages of speciation

Geographic Variation, Speciation and Clines John A. Endler, 2020-03-31 *Geographic Variation Speciation and Clines* explores the origins and development of geographic variation divergence and speciation In particular it is concerned with genetic divergence as it is usually found on continents among groups of populations isolated only by distance Although earlier writers on this topic considered the effects of geography and dispersal intense geographic differentiation and speciation were thought to require complete isolation Professor Endler shows how geographic differentiation and speciation may develop in spite of continuous gene flow Following a review of the diverse and scattered literature on gene flow and population differentiation the author discusses the relationships among gene flow dispersal and migration He then summarizes the factors which limit the geographic extent of gene flow and those which allow steep clines to develop in the absence of barriers to gene flow His analysis draws on examples from the field experiments and single and multiple locus models The mechanism and conditions for parapatric speciation are presented steepening clines development into hybrid zones and the evolution of sexual isolation In the final chapter the author considers the interpretation of natural clines and the associated geographic patterns of subspecies and species

On the Origin of Species by Means of Natural Selection Charles Darwin, 2015-10-21 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public

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Modes of Speciation Michael James Denham White,1978 [Speciation by Reinforcement](#) Lily Wan-Yung Liou,1993 *Speciation* , The Australian Museum presents the full text of a fact sheet entitled Speciation The fact sheet discusses speciation the evolution of new species The publication also highlights the three main types of speciation and examples of the types *Speciation in Tropical Environments* R. H. Lowe-McConnell,Ro McConnell,1969 *Color Variation and Its Role in Speciation* Florine Pascal,2022 The study of intraspecific contact zones can provide important insights into the processes that underlie lineage divergence and potentially mediate speciation Contact zones frequently exhibit some level of hybridization among lineages with the consequences of hybridization on speciation depending in part on the strength of selection Here we focused on a red eyed treefrog *Agalychnis callidryas* contact zone *Agalychnis callidryas* is a brightly colored and polymorphic frog with a broad distribution throughout Central America Populations differ greatly in leg color stripe pattern size call and skin peptide composition but most populations in Costa Rica and Panama exhibit relatively little variation in phenotype Females the choosier sex prefer males from their own population indicating a role of premating reproductive isolation on lineage divergence Previously our lab identified a contact zone between two *A. callidryas* lineages consisting of multiple phenotypes and late generation hybrids Here we characterize the phenotypes from five populations along this contact zone focusing primarily on leg color and stripe type We then use the quantification of color pattern variation to identify evidence of naturally occurring mate choice We found complex continuous color variation along the contact zone and evidence of assortative mating in the parental population but random mating in the contact zone We found evidence of directional selection in both parental and contact zone populations Combined these data assess the potential for lineage divergence between the two parent populations in this dynamic system

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3 1 x 2 x 3 21

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