



Module 2: Phylogeny

1. In module 1, you identified which species of lizards were most similar to one another based on relative limb length and toe pad size. In this module, you determined which lizards are more similar to one another based on what type of information?

2. Are the species of lizard that are more similar to one another according to body type also more closely related based on the results obtained in this module? Explain your answer.

3. The figures below show two phylogenetic trees similar to the one you constructed in the virtual lab but with more lizards. The trees below show the evolutionary relationships among species from four ecomorphs from the four largest Caribbean islands.

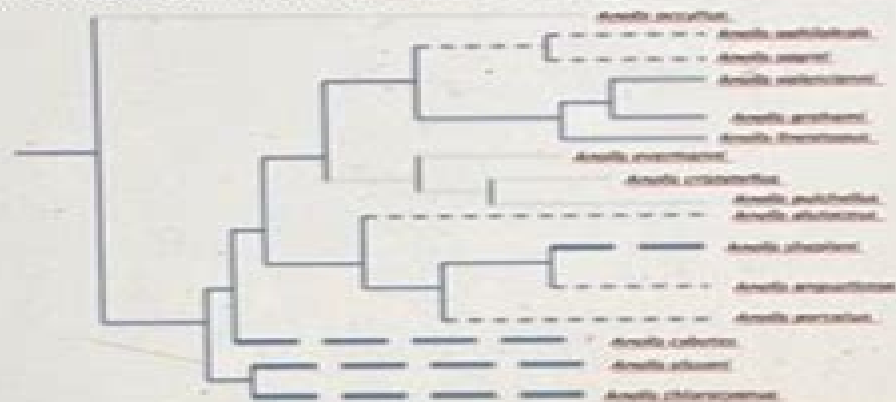


Figure 1. Phylogeny of anole lizards on four of the major Caribbean islands color-coded according to geographical distribution. Light dotted line, Puerto Rico; small dashed line, Cuba; large dashed line, Hispaniola; and solid line, Jamaica.

Lizard Evolution Answers

Laurie J. Vitt, Eric R. Pianka



Lizard Evolution Answers:

Lizards Eric P. Pianka, Laurie J. Vitt, 2003-09-24 From tiny to gigantic from drab to remarkably beautiful from harmless to venomous lizards are spectacular products of natural selection This book lavishly illustrated with color photographs is the first comprehensive reference on lizards around the world Accessible scientifically up to date and written with contagious enthusiasm for the subject *Lizards Windows to the Evolution of Diversity* covers species evolution diversity ecology and biology Eric R Pianka and Laurie J Vitt have studied and photographed members of almost all lizard families worldwide and they bring to the book a deep knowledge based on extensive firsthand experience with the animals in their natural habitats Part One explores lizard lifestyles answering such questions as why lizards are active when they are why they behave as they do how they avoid predators why they eat what they eat and how they reproduce and socialize In Part Two the authors take us on a fascinating tour of the world's manifold lizard species beginning with iguanians an evolutionary group that includes some of the most bizarre lizards the true chameleons of Africa and Madagascar We also meet the glass lizard able to break its tail into many highly motile pieces to distract a predator from its body lizards that can run across water and limbless lizards such as snakes Part Three gives an unprecedented global view of evolutionary trends that have shaped present day lizard communities and considers the impact of humans on their future A definitive resource containing many entertaining anecdotes this magnificent book opens a new window to the natural world and the evolution of life on earth *The Handy Dinosaur Answer Book* Thomas E. Svarney, 2004 General Information about dinosaurs *The Handy Dinosaur Answer Book* Patricia Barnes-Svarney, Thomas E Svarney, 2010-01-01 The mighty dinosaurs were the dominant life form on earth for millions of years But catastrophe awaited In what amounts to a geological blink of an eye the dinosaurs disappeared This fun filled fact book takes you deep into the world of dinosaurs From Tyrannosaurs to Stegosaurus The Handy Dinosaur Answer Book profiles numerous species chronicling their time on Earth and exploring their roles in archaeological expeditions and museums today It covers the latest greatest findings along with the accompanying shifts in dinosaur theory Because of recent discoveries there are some great debates Are birds really dinosaurs Were any dinosaurs warm blooded What caused their extinction Unearth answers to over 800 commonly asked and just plain interesting dinosaur questions such as What is a dinosaur Where are extremely large dinosaur bones being found and why Did dinosaurs get blown away by hurricanes Did some dinosaurs have self sharpening teeth Which dinosaur had the longest neck of any animal known Did dinosaurs travel in herds What dinosaurs are thought to have evolved into birds Do dinosaur bones ever get rearranged after they are placed on display Where and what is the Dinosaur Freeway From the earth's beginnings through the Triassic Jurassic and Cretaceous periods to today's latest scientific discoveries and discovery laden sites The Handy Dinosaur Answer Book provides hundreds of intriguing dinosaur facts With numerous photos and illustrations this tome is richly illustrated and its helpful bibliography and extensive index add to its usefulness It's a perfect reference to help make sense of 65 million year old mysteries *Be*

Ready to Answer Michael L. Gowens, 2011-07-01 A Christian apologetic for the person in the pew this volume aims to equip both the young and the more mature believer in defending the faith

The Origin of Snakes Michael Wayne Caldwell, 2019-06-28 This book presents perspectives on the past and present state of the understanding of snake origins It reviews and critiques data and ideas from paleontology and neontology herpetology as well as ideas from morphological and molecular phylogenetics The author reviews the anatomy and morphology of extant snakes Methods are also critiqued including those empirical and theoretical methods employed to hypothesize ancestral ecologies for snakes The modern debate on squamate phylogeny and snake ingroup phylogeny using molecules and morphology is examined critically to provide insights on origins and evolution Key Features Important major evolutionary transformation in vertebrate evolution Continuing historical debate in vertebrate paleontology Of wide interest to a core audience of paleontologists herpetologists and morphologists Author acknowledged as prominent contributor to debate over snake origins Based on remarkable well preserved fossil specimens

Lizard Ecology Stephen M. Reilly, Lance D. McBrayer, Donald B. Miles, 2007-07-12 Originally published in 2006 this book was the first critical review of the effects of lizard foraging modes in 30 years

How to answer to an atheist Roope Berg, 2025-06-27 In today s debate about religion and Christianity atheism seems to be dominant And anyway at least in Western countries atheism seems to be the dominant ideology One reason for this seems to be that Christians that is Jesus disciples do not know their own matter well Atheists have many websites to help them in the discussion where attacks against Christianity are collected but the greatest help for them is the ignorance of Christians in many matters Of course Christians also have their own websites where there are ready made answers But in many cases those answers seem to be a bit incomplete which gives the opponent an advantage The saddest part of ignorance is that many wrong and false perceptions are unleashed when people don t know how to correct them It can easily lead many to abandon Christianity and also prevents many from choosing Christianity Everyone should be free to choose whether to believe the message but it would be good if the choice were based on correct information and not just one often distorted view on the matter This book examines many of the questions and answers related to Christianity that have come up in discussions The book is not intended to make you a believer and you don t even have to agree with the ideas The goal is to provide an alternative to what otherwise seems to be quite one sided thinking and hopefully help you understand things related to Christianity better

Lizard Ecology Laurie J. Vitt, Eric R. Pianka, 2014-07-14 In a collection rich in implications for all fields of ecology leading lizard ecologists demonstrate the utility of the phylogenetic approach in understanding the evolution of morphology physiology behavior and life histories Lizards which are valued for their amenability to field experiments have been the subject of reciprocal transplant experiments and of manipulations of resource availability habitat structure population density and entire sections of food webs Such experiments are rapidly rebuilding ecological theories as they apply to all organisms As a demonstration of state of the art historical and experimental research and as a call for

philosophical engagement this volume will join its predecessors *Lizard Ecology A Symposium* Missouri 1967 and *Lizard Ecology Studies of a Model Organism* Harvard 1983 in directing ecological research for years to come *Lizard Ecology* contains essays on reproductive ecology Arthur E Dunham Lin Schwarzkopf Peter H Niewiarowski Karen Overall and Barry Sinervo behavioral ecology A Stanley Rand William E Cooper Jr Emília P Martins Craig Guyer and C Michael Bull evolutionary ecology Raymond B Huey Jean Clobert et al Donald B Miles and Theodore Garland Jr and population and community ecology Ted Case Robin M Andrews and S Joseph Wright Craig D James and Jonathan B Losos Originally published in 1994 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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The Old Riddle and the Newest Answer John Gerard, 2019-12-13 In *The Old Riddle and the Newest Answer* John Gerard deftly navigates the intricate interplay between traditional philosophical inquiries and contemporary existential dilemmas This thought provoking work employs a blend of poetic prose and analytical discourse reflecting Gerard's keen insight into the ongoing dialogue between past and present philosophical thought Set against a backdrop of historical and modern existential concerns the book challenges readers to confront age old questions about meaning purpose and identity while providing fresh perspectives that resonate with today's societal complexities John Gerard a scholar of philosophy and literature draws upon his extensive academic background and personal experiences to craft this compelling narrative His deep engagement with classical texts and modern theories informs his approach allowing him to bridge the gap between established philosophical traditions and the pressing questions of the modern world Gerard's previous works have established him as a prominent voice in contemporary philosophy and this book marks a significant contribution to the discourse around timeless human inquiries Readers seeking an intellectual companion for their journey through life's

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