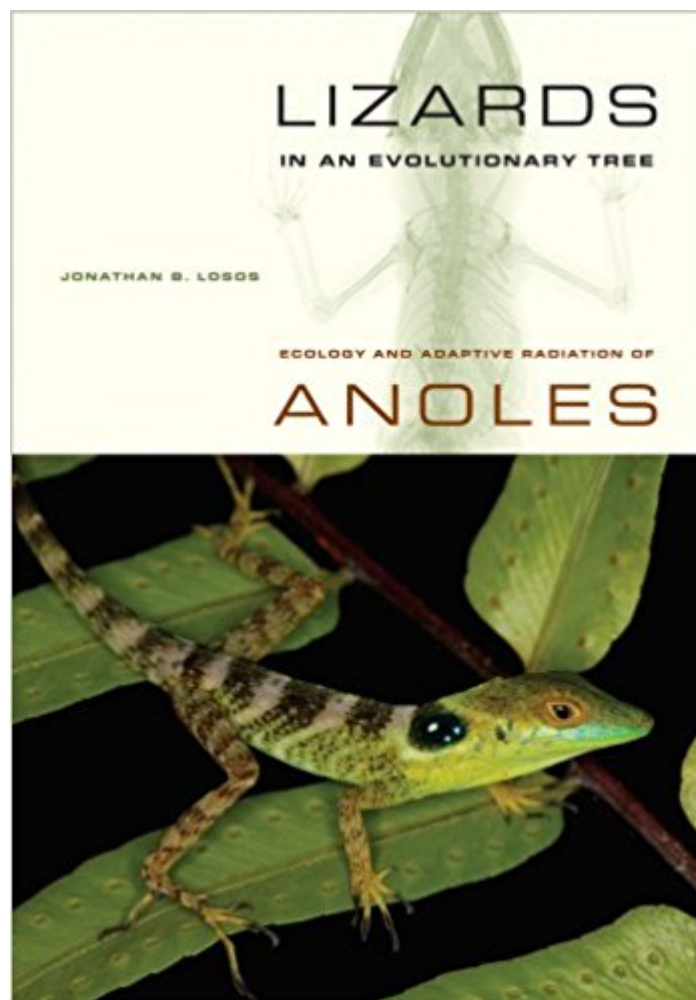




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Lizards In An Evolutionary Tree: Ecology And Adaptive Radiation Of Anoles (Organisms And Environments)



Synopsis

Adaptive radiation, which results when a single ancestral species gives rise to many descendants, each adapted to a different part of the environment, is possibly the single most important source of biological diversity in the living world. One of the best-studied examples involves Caribbean Anolis lizards. With about 400 species, Anolis has played an important role in the development of ecological theory and has become a model system exemplifying the integration of ecological, evolutionary, and behavioral studies to understand evolutionary diversification. This major work, written by one of the best-known investigators of Anolis, reviews and synthesizes an immense literature. Jonathan B. Losos illustrates how different scientific approaches to the questions of adaptation and diversification can be integrated and examines evolutionary and ecological questions of interest to a broad range of biologists.

Book Information

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“A rich compendium of information by an extraordinarily insightful biologist.”

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“This wonderful book will appeal to all ecologists and evolutionary biologists interested in the causes of species diversity.”

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 extraordinarily insightful biologist with a deep and broad understanding of the diversity of Anolis
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 and written book." (Austral Ecology / Emr 2011-06-13)

"In a book both beautifully illustrated and deeply informative, Jonathan Losos, a leader in
 evolutionary ecology, celebrates and analyzes the diversity of the natural world that the fascinating
 anoline lizards epitomize. Readers who are drawn to nature by its beauty or its intellectual
 challenges; or both; will find his book rewarding." Douglas J. Futuyma, State
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 informative, stimulating, and highly readable, and will inspire a generation of students." Peter
 R. Grant, author of *How and Why Species Multiply: The Radiation of Darwin's Finches* "Anoline
 lizards experienced a spectacular adaptive radiation in the dynamic landscape of the Caribbean
 islands. The radiation has extended over a long period of time and has featured separate radiations
 on the larger islands. Losos, the leading active student of these lizards, presents an integrated and
 synthetic overview, summarizing the enormous and multidimensional research literature. This
 engaging book makes a wonderful example of an adaptive radiation accessible to all, and the lavish
 illustrations, especially the photographs, make the anoles come alive in one's mind." David
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 of the most eventful adaptive radiations known. With disarming prose and personal narrative
 Jonathan Losos shows how an obsession, beginning at age ten, became a methodology and a
 research plan that, together with studies by colleagues and predecessors, culminated in many of
 the principles we now regard as true about the origins and maintenance of biodiversity. This work
 combines rigorous analysis and glorious natural history in a unique volume that stands with books
 by the Grants on Darwin's finches among the most informed and engaging accounts ever written on
 the evolution of a group of organisms in nature." Dolph Schluter, author of *The Ecology of
 Adaptive Radiation*

Awesome book!

This book was just awarded the Daniel Giraud Elliot Medal by the National Academy of Sciences. The NAS press release states: "Jonathan B. Losos is recognized for his novel and penetrating evolutionary studies of adaptive radiation in vertebrates, notably his comprehensive study of anolis lizards in tropical America, as summarized in his recent book, *Lizards in an Evolutionary Tree: Ecology and Adaptive Radiation of Anoles*." (to find the press release, search on National Academy of Sciences awards").

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