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Adaptive
Radiation

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thus utterly simple and in view of that facts, isn't it? You have to favor to in this manner

[Walter Salzburger] The dynamics of adaptive radiation in African cichlid fishes Martin: Ecological opportunity is not sufficient to explain the origins of adaptive radiation

EFB311 2020 Adaptive

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radiations intro Martin:
investigating the rare
origins of novel trophic
specialists during
adaptive radiation

~~Adaptive Radiation~~

~~Meaning Adaptive~~
radiation Adaptive
Radiation

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Review (BI 107)

Speciation PPT

Coevolution,

Convergent Evolution,

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Adaptive radiation in
polychetes John Parks

Smart Growth on Mars

22nd Annual

International Mars

Society Convention

Module 3: Mapping

Habitat Connectivity for

Wildlife Hominid

Paleobiology

Myths and

misconceptions about

evolution - Alex Gendler

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~~Adaptive Radiation~~
Gradualism vs
Punctuated Equilibrium
Natural Selection vs
Artificial Selection |
Mechanisms of
Evolution ~~Biology Basics:~~
~~Gene Flow (Simplified)~~
~~Genetic drift, bottleneck~~
~~effect and founder effect |~~
~~Biology | Khan Academy~~
~~Hardy-Weinberg~~
~~Equilibrium Speciation~~
~~Allopatric and sympatric~~
~~speciation | Biology |~~

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~~Khan Academy~~

EFB311 2020 adaptive
radiation and

conservation biology

WHAT IS ADAPTIVE

RADIATION The

adaptive radiation of

Darwin's Finches

speciation \u0026

adaptive radiation in

felids Ecological

Interactions \u0026

Adaptive Radiations -

Benito's Explanations

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The pattern of ecological radiation of mammals across the K/Pg boundary

Evolution by Natural Selection - Darwin's Finches | Evolution | Biology | FuseSchool

Natural Selection The Ecology Of Adaptive Radiation

Lizards in an Evolutionary Tree: Ecology and Adaptive

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The Ecology Of

Radiation of Anoles the
tenth volume in the
University of California
Press ' s series on
organisms and
environments, whose
unifying themes are the ...

Lizards in an
Evolutionary Tree:
Ecology and Adaptive
Radiation of Anoles

It will be of interest to
graduate students and

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professional scientists in ecology, evolutionary biology, systematics, and biogeography. '... illuminating, refreshing and convincing ... The editors ...

Molecular Evolution and Adaptive Radiation

Reproductive and vegetative structure and related physiology, ecology and evolution

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are emphasized ... among
plant taxa and help
explain why members of
this taxon exhibit more
adaptive and ecological
...

Profile of an Adaptive Radiation

Birds have provided
classic examples of
adaptive radiation, such
as the morphologically
diverse Darwin's finches

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and Hawaiian
honeycreepers. Broad
comparative studies of
avian diversification have
...

A shift in taste

2 Department of Ecology
and Evolution, Stony
Brook University ... 28).
This massively parallel
adaptive radiation was
facilitated by natural
selection acting on

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extensive ancient SGV
(8, 11). Under ...

Predicting future from
past: The genomic basis
of recurrent and rapid
stickleback evolution

The Phanerozoic history
of marine benthic
communities displays a
strong environmental
bias. New community
types generally appeared
in coastal environments

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and then spread to
offshore habitats, ...

Global climate change
and the paleoecology of
echinoderm populations
at Seymour Island,
Antarctica

Ecology and Evolution of
Darwin ' s Finches ...

Clade-specific
morphological
diversification and
adaptive radiation in

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Hawaiian songbirds.

Proceedings of the Royal
Society of London:
Biological Sciences ...

Speciation &
hybridization -- Aug-08

Unique wildlife and
palaeoecological
treasures make Yunnan a
perfect site for the School
of Ecology and
Environmental ... new
theories surrounding

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adaptive radiation during
the Cambrian explosion

Radiation

...

Sweeping synergy in
ecological research

The hydrology model is
driven by an hourly
record of air
temperature,
precipitation, relative
humidity, surface
pressure, wind speed,
incident long-wave

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radiation, and solar
radiation. Model ...

Using a Dynamic Hydrology Model To Predict Mosquito Abundances in Flood and Swamp Water

The study, published today in Nature Ecology & Evolution ... that all proboscideans fell within one of eight sets of adaptive strategies.

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"Remarkably for 30 million years, the entire first ...

Global climate dynamics drove the decline of mastodons and elephants, new study suggests

4 NERC Centre for Ecology and Hydrology, Wallingford ... and stakeholders—that includes monitoring and

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adaptive management
can be used. With the
recent designation of
2021 – 2030 as the
“ decade of ...

Rewilding complex ecosystems

However, the epigenetic
mechanism of DNA
methylation modification
that may influence
phenotypic adaptive
differentiation ...

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published online in
Molecular Ecology, the
researchers from Wuhan

...

Distinct methylome
patterns contribute to
lotus ecotypic
differentiation

Phylogenetic
relationships of
Cypriniformes and
plasticity of pharyngeal
teeth in the adaptive

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radiation of cyprinids ...
Systematics, Evolution,
Ecology, and
Conservation. Zootaxa
3586: 359-376.

Richard Mayden, Ph.D.

Furthermore, we have also found signs that could represent adaptive responses to life with radiation. For instance, frogs within the exclusion zone are darker than

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frogs living outside it ...

Adaptive Radiation

Chernobyl a wildlife
refuge 33 yrs after nuclear
accident

0732713 Harlow, Henry
University of Wyoming \$
732,924 Adaptive long-
term fasting in land- and
ice ... an international
conference on the
ecology of Arctic climate
change 0856479 Toole,
John Woods Hole ...

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National Science

Foundation International

Polar Year Awards

Testing for selection on
color and pattern in a
mimetic radiation.

Current Zoology 58(4 ...

Adaptation of visual
pigments to the aquatic
environment. In:

Adaptive Mechanisms in
the Ecology of Vision.

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Molly E Cummings

They will analyze how the organisms react to the Arctic environment, the Scientific Center ' s head of the ecology biochemistry ... take an active part in all adaptive mechanisms to ensure ...

Adaptive radiation is the evolution of diversity

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within a rapidly multiplying lineage. It can cause a single ancestral species to differentiate into an impressively vast array of species inhabiting a variety of environments. Much of life's diversity has arisen during adaptive radiations. Some of the most famous recent examples include the East African cichlid

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fishes, the Hawaiian silverswords, and of course, Darwin's Galapagos finches,. This book evaluates the causes of adaptive radiation. It focuses on the 'ecological' theory of adaptive radiation, a body of ideas that began with Darwin and was developed through the early part of the 20th

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Adaptive Radiation

Century. This theory proposes that phenotypic divergence and speciation in adaptive radiation are caused ultimately by divergent natural selection arising from differences in environment and competition between species. In *The Ecology of Adaptive Radiation* the author re-evaluates the ecological theory,

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Adaptive
Radiation

along with its most significant extensions and challenges, in the light of all the recent evidence.

This important book is the first full exploration of the causes of adaptive radiation to be published for decades, written by one of the world's best young evolutionary biologists.

'...a scholarly work of

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Adaptive Radiation

great clarity and force of argument. It is essential reading for all students of evolution... a book that will take its place near the ones by Dobzhansky, Lack, Mayr and Simpson that inspired it.' Peter R. Grant, Quarterly Review of Biology '...in each decade, one book stands out in terms of its influence on the field of evolutionary biology...

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The Ecology Of

Although only one-year old, this decade might have already produced its member of this

pantheon: Dolph Schluter' The Ecology of Adaptive Radiation ...it will lead to new avenues of research and new ways of thinking about adaptive radiation.'

Jonathan B. Losos,
Trends in Ecology and Evolution '...presents and

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Adaptive Radiation

impressively thorough evaluation of the empirical evidence that has accumulated since Simpson's synthesis...an absolute 'must read' for all graduate students in the fields of ecology and evolution and for anyone interested in evolutionary diversity. It will become a classic' Axel Meyer, Science '...should be read and regularly consulted

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Adaptive Radiation

by anybody interested in adaptive radiation, in natural selection, and in speciation' Konrad Bachmann, Plant Systematics and Evolution Much of life's diversity was generated by adaptive radiation - concentrated bursts of evolution during which new species rapidly formed, diverging from a common ancestor in

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ecology and phenotype.

There are many living examples of this spectacular phenomenon - the most famous include the East African cichlid fishes, the Hawaiian silverswords, and of course, Darwin's Gal á pagos finches. This book evaluates the causes of adaptive radiation, focusing on the 'ecological' theory, a

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Adaptive Radiation

body of ideas that began with Darwin. The author re-evaluates the ecological theory, along with its most significant extensions and challenges, in the light of all the recent evidence. This important book is the first full exploration of the causes of adaptive radiation to be written for decades, by one of the world's leading young

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Radiation

evolutionary biologists.

"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

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challenges—or
both—will find his book
rewarding."—Douglas J.

Futuyma, State
University of New York,

Stony Brook "This book
is destined to become a
classic. It is scholarly,
informative, stimulating,
and highly readable, and
will inspire a generation
of students."—Peter R.

Grant, author of *How
and Why Species*

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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

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Adaptive Radiation

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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Wake, University of California, Berkeley "This magnificent book is a celebration and synthesis of one 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,

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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

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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

This volume surveys advances in the study of adaptive radiation showing how molecular

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characters can be used to analyze the origin and pattern of diversification within a lineage in a non-circular fashion.

Baum and Smith, both professors evolutionary biology and researchers in the field of systematics, present this highly accessible introduction to phylogenetics and its importance in modern

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biology. Ever since Darwin, the evolutionary histories of organisms have been portrayed in the form of branching trees or "phylogenies." However, the broad significance of the phylogenetic trees has come to be appreciated only quite recently. Phylogenetics has myriad applications in biology, from discovering the

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features present in ancestral organisms, to finding the sources of invasive species and infectious diseases, to identifying our closest living (and extinct) hominid relatives. Taking a conceptual approach, Tree Thinking introduces readers to the interpretation of phylogenetic trees, how these trees can be

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reconstructed, and how they can be used to answer biological questions. Examples and vivid metaphors are incorporated throughout, and each chapter concludes with a set of problems, valuable for both students and teachers. Tree Thinking is must-have textbook for any student seeking a solid foundation in this

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fundamental area of
evolutionary biology.

Charles Darwin's
experiences in the
Gal á pagos Islands in
1835 helped to guide his
thoughts toward a
revolutionary theory: that
species were not fixed but
diversified from their
ancestors over many

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generations, and that the driving mechanism of evolutionary change was natural selection. In this concise, accessible book, Peter and Rosemary Grant explain what we have learned about the origin and evolution of new species through the study of the finches made famous by that great scientist: Darwin's finches. Drawing upon

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their unique observations of finch evolution over a thirty-four-year period, the Grants trace the evolutionary history of fourteen different species from a shared ancestor three million years ago. They show how repeated cycles of speciation involved adaptive change through natural selection on beak size and shape, and divergence in songs.

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They explain other factors that drive finch evolution, including geographical isolation, which has kept the Gal á pagos relatively free of competitors and predators; climate change and an increase in the number of islands over the last three million years, which enhanced opportunities for speciation; and flexibility

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in the early learning of feeding skills, which helped species to exploit new food resources.

Throughout, the Grants show how the laboratory tools of developmental biology and molecular genetics can be combined with observations and experiments on birds in the field to gain deeper insights into why the

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world is so biologically rich and diverse. Written by two preeminent evolutionary biologists, *How and Why Species Multiply* helps to answer fundamental questions about evolution--in the Gal á pagos and throughout the world.

The origin of biological diversity, via the formation of new species,

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can be inextricably linked to adaptation to the ecological environment. Specifically, ecological processes are central to the formation of new species when barriers to gene flow (reproductive isolation) evolve between populations as a result of ecologically-based divergent natural selection. This process of 'ecological speciation'

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has seen a large body of particularly focused research in the last 10-15 years, and a review and synthesis of the theoretical and empirical literature is now timely. The book begins by clarifying what ecological speciation is, its alternatives, and the predictions that can be used to test for it. It then reviews the three

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components of ecological speciation and discusses the geography and genomic basis of the process. A final chapter highlights future research directions, describing the approaches and experiments which might be used to conduct that future work. The ecological and genetic literature is integrated throughout the text with

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the goal of shedding new insight into the speciation process, particularly when the empirical data is then further integrated with theory.

The Heliconius butterflies are one of the classic systems in evolutionary biology and have contributed hugely to our understanding of evolution over the last

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150 years. Their dramatic radiation and remarkable mimicry has fascinated biologists since the days of Bates, Wallace, and Darwin. The Ecology and Evolution of Heliconius Butterflies is the first thorough and accessible treatment of the ecology, genetics, and behaviour of these butterflies, exploring how they offer remarkable

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insights into tropical biodiversity. The book starts by outlining some of the evolutionary questions that Heliconius research has helped to address, then moves on to an overview of the butterflies themselves and their ecology and behaviour before focussing on wing pattern evolution, and finally, speciation. Richly

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illustrated with 32 colour plates, this book makes the extensive scientific literature on Heliconius butterflies accessible to a wide audience of professional ecologists, evolutionary biologists, entomologists, and amateur collectors.

Biodiversity-the genetic variety of life-is an exuberant product of the

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evolutionary past, a vast human-supportive resource (aesthetic, intellectual, and material) of the present, and a rich legacy to cherish and preserve for the future.

Two urgent challenges, and opportunities, for 21st-century science are to gain deeper insights into the evolutionary processes that foster biotic diversity, and to

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translate that understanding into workable solutions for the regional and global crises that biodiversity currently faces. A grasp of evolutionary principles and processes is important in other societal arenas as well, such as education, medicine, sociology, and other applied fields including agriculture,

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pharmacology, and
biotechnology. The
ramifications of
evolutionary thought also
extend into learned
realms traditionally
reserved for philosophy
and religion. The central
goal of the In the Light of
Evolution (ILE) series is
to promote the
evolutionary sciences
through state-of-the-art
colloquia-in the series of

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Arthur M. Sackler

colloquia sponsored by
the National Academy of
Sciences-and their
published proceedings.

Each installment explores
evolutionary perspectives
on a particular biological
topic that is scientifically
intriguing but also has
special relevance to
contemporary societal
issues or challenges. This
tenth and final edition of

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the In the Light of
Evolution series focuses
on recent developments
in phylogeographic
research and their
relevance to past
accomplishments and
future research
directions.

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