

# THE EVOLUTIONARY ECOLOGY OF DEVELOPMENT

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Received February 6, 2009

Accepted February 6, 2009

Review of: Gilbert, S. F., and D. Epel. 2009. *Ecological Developmental Biology: Integrating Epigenetics, Medicine, and Evolution*. Sinauer Associates Inc., 480 pp., ISBN: 978-0-87893-299-3. Paper, \$49.95.

I write these words a day after witnessing a historic moment, the inauguration of President Obama, in a year that celebrates the 150th anniversary of *The Origin of Species*. Yet that day in 1809 that saw the birth of both Charles Darwin and Abraham Lincoln went completely unnoted at the time. The importance of some events is obvious when they occur, others only long after. Some historical movements are captured in a single event, whereas others are the slow accumulation of many small actions. Often it is a bit of both. Obama's inauguration was the culmination of a decades long struggle. Over the course of three decades, the Modern Synthesis took the ideas first put forth by Darwin and joined them with genetics, ecology, systematics, and paleontology.

Certain events were milestones noted at the time, particularly the books of Dobzhansky, Mayr, Huxley, Simpson, and Stebbins. But the Synthesis was much more than those books. It consisted of numerous other publications, the importance of some was noted at the time and others only many decades later. Nor did that process halt in the 1950s. The Synthesis was being declared complete shortly after the publication of Watson and Crick's milestone paper. Recognized even at the time of the Synthesis, not all of biology participated, most pointedly developmental biology. But the seeds of the final synthesis were being planted even then. Over the next five decades, numerous papers and books would be published leading to a joining that is finally happening. The appearance of a textbook is often the culmination of a long process moving a sub-

ject from the fringes to the center of a discipline, or perhaps the coalescence of a discipline. *Ecological Developmental Biology* is such a milestone.

According to the title, this book is about how the external environment and ecological processes affect development, *eco-devo* in current parlance. However, it is really two books. The first two sections match the title. The third section is about *evo-devo*, the interaction of evolutionary and developmental processes. At very end are hints of the marriage of these two disciplines into *eco-evo-devo*.

The book is written as an upper-level undergraduate textbook. The authors claim that the book is readable by a student with just introductory biology, which I strongly doubt. The background knowledge assumed and the vocabulary used require a student with the sort of grounding in genetics, cell biology, and evolution that comes only with more advanced courses. This book would make an excellent supplemental text in a developmental biology course. Scott Gilbert is the author of a developmental biology textbook and this new book is aimed at topics not covered in that more traditional text. The book could also be the focus of an advanced topics or graduate-level course.

The book could profitably be read by researchers in developmental biology, ecology, and evolution and should be read by such a wide audience. The material is presented in a way that makes it very accessible to someone with just a smattering of background in the other fields. It does an excellent job of providing both depth and breadth while keeping the language from getting too technical.

The strengths of the book are the interdisciplinary scope and the engaging writing style. It conveys complex concepts in

# Discover Evolutionary Ecology

**Joan Roughgarden**



## **Discover Evolutionary Ecology:**

**Discovering Evolutionary Ecology** Peter J. Mayhew, 2006-01-05 This text provides a concise and readable introduction to evolutionary ecology a field of questions united by the intermix of evolutionary and ecological knowledge *Discovering Evolutionary Ecology* Peter J. Mayhew, 2006-01-05 Why are some kinds of organism species rich and others species poor How do new species arise and why do some go extinct Why do organisms grow and behave the way they do This book provides an introduction to evolutionary ecology the science that brings ecology and evolution together to help understand biological diversity In a concise readable format Peter Mayhew covers the entire breadth of the subject from life histories and the evolution of sex to speciation and macroecology Many emerging fields are also introduced such as metabolic ecology the evolution of population dynamics and the evolution of global ecology *Discovering Evolutionary Ecology* highlights the connections between these different subject areas and for the first time paints a picture of a truly integrated field It illustrates the research tools utilized and demonstrates how advances in one area can spur on developments elsewhere when scientists combine evolutionary and ecological knowledge To maximize accessibility the book assumes only a basic knowledge of biology includes a comprehensive glossary and contains almost no maths Each chapter provides suggestions for further reading and there is also an extensive reference list Ideal as an introduction to evolutionary ecology for undergraduates this book will also interest established researchers providing a broad and up to date context for their work

*Discover*, 1993 **Theory of Population Genetics and Evolutionary Ecology** Joan Roughgarden, 1979 This is a reprint of a classic which synthesizes population genetics and population genetics to form one of the first books on evolutionary ecology Written by one of the foremost authorities in the field it is designed as an introduction useful to readers at various levels from diverse backgrounds It features balanced readable coverage of both elementary and advanced topics that are essential to those interested in evolutionary biology ecology animal behavior sociobiology and paleobiology

**Discovering Anthropology** Carol R. Ember, Melvin Ember, Peter Neal Peregrine, 2006-04 This collection of case studies provides examples of anthropologists working in a variety of settings The case studies are correlated to the chapters of Anthropology 12 E the end of chapter material in the text contains discussion and homework questions directly tied to the case study Presidents James Barber, 2003 Profiles the American presidents with information on their political and personal lives **Train** John Coiley, 2000 Traces the development of railways from the first Babylonian rutways to the electromagnetic driverless trains of today and describes how trains are built and operated *Sports* Tim Hammond, 2000 Discover the exciting world of sports the rules of the games the equipment used and the techniques required to use them Filled with extraordinary illustrations and written and designed with care Terrestrial Plant Ecology Michael G. Barbour, Jack H. Burk, Wanna D. Pitts, 1980 *Terrestrial Plant Ecology* synthesizes the literature pertaining to the ecology of wild plants into a survey for the undergraduate student to teach them the essentials of the interactions between plants and

their environment     Mammalia ,2008     Official Meeting Program Ecological Society of America. Meeting,2006  
    *American Book Publishing Record* ,2006     **The American Naturalist** ,2006     *Bulletin* ,2006     **Earth** Susanna Van  
Rose,2000-07-05 The natural forces that shape our planet from plate tectonics to volcanoes are examined through textual  
explanations and 3 D models     Evolution National Science Foundation (U.S.),1983 Essays discuss modifications in the  
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developments of the twenty first century     *Fish* Steve Parker,1995-04 Photographs and text explore the characteristics  
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including its accommodations and a retelling of its sinking in the North Atlantic in April 1912     **The Dynamic Nature of**  
**Ecosystems** Claudia Pahl-Wostl,1995-07-05 It argues that it is the trade off between the irregular chaotic dynamics at the  
population level and the spatio temporal organization of the system as a whole that shapes ecological systems Such a trade  
off is mediated by the effects of positive feedback that link populations across time and space

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Discover Evolutionary Ecology**

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