

## New Titles

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such as those explored by Naomi Pierce and Andrew Berry with regard to a nitrogen shortage in the diets of caterpillars. Ants harbor bacteria, including ones that provide nitrogen fixation, which supplements the diet of caterpillars. The caterpillars, in turn, provide amino acids and sugars to ants while also protecting them from parasites. David Queller discusses the evolution of altruism in social insects and addresses the issue of how natural selection could reward altruistic actions.

My only reservation with this volume is that it does not address issues that have arisen in studies of molecular evolution, such as neutral mutations or gene duplication; nor does it focus on mutations in genetic regulatory systems or on the integration of developmental processes in evolution (i.e., evo-devo). Finally, efforts have been made to utilize the resources of complex-systems dynamics in order to model and understand evolutionary phenomena, especially those of emergence, but these efforts are not mentioned by any of the contributors.

*In the Light of Evolution* is a handsomely produced volume with copious, apt, and informative color illustrations to supplement a text that has a personal and informal style. The book's strength lies in its range of specific biological studies that illuminate Dobzhansky's quotation and exemplify the integration of molecular with organismal and ecological data.

BRUCE H. WEBER

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Beth Shapiro and Michael Hofreiter, eds. Springer (Humana Press), 2012. 247 pp., illus. \$119.00 (ISBN 9781617795152 cloth).

### Antarctic Ecosystems: An Extreme Environment in a Changing World.

Alex D. Rogers, Nadine M. Johnston, Eugene J. Murphy, and Andrew Clarke, eds. Wiley-Blackwell, 2012. 564 pp., illus. \$159.95 (ISBN 9781405198400 cloth).

### Biological Learning and Control: How the Brain Builds Representations, Predicts Events, and Makes Decisions.

Reza Shadmehr and Sandro Mussa-Ivaldi. MIT Press, 2012. 385 pp., illus. \$40.00 (ISBN 9780262016964 cloth).

### Ecological Restoration.

Susan M. Galatowitsch. Sinauer Associates, 2012. 630 pp., illus. \$89.95 (ISBN 9780878936076 cloth).

### How to Be a Better Birder.

Derek Lovitch. Princeton University Press, 2012. 208 pp., illus. \$19.95 (ISBN 9780691144481 paper).

### The Localization Reader: Adapting to the Coming Downshift.

Raymond De Young and Thomas Princen, eds. MIT Press, 2012. 372 pp., illus. \$27.00 (ISBN 9780262516877 paper).

### Plant Fungal Pathogens: Methods and Protocols.

Melvin D. Bolton and Bart P. H. J. Thomma, eds. Springer (Humana Press), 2011. 648 pp., illus. \$159.00 (ISBN 9781617795008 cloth).

### Plant Reintroduction in a Changing Climate: Promises and Perils.

Joyce Maschinski and Kristin E. Haskins, eds. Island Press, 2012. 432 pp., illus. \$50.00 (ISBN 9781597268318 paper).

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**Plants of the Chesapeake Bay: A Guide to Wildflowers, Grasses, Aquatic Vegetation, Trees, Shrubs, and Other Flora.** Lytton John Musselman and David A. Knepper. Johns Hopkins University Press, 2012. 224 pp., illus. \$65.00 (ISBN 9781421404974 paper).

**The Processes of Life: An Introduction to Molecular Biology.** Lawrence E. Hunter. MIT Press, 2012. 320 pp., illus. \$21.00 (ISBN 9780262517379 paper).

**Statistical Human Genetics: Methods and Protocols.** Robert C. Elston, Jaya M. Satagopan, and Shuying Sun, eds. Springer (Humana Press),

2012. 564 pp., illus. \$159.00 (ISBN 9781617795541 cloth).

**Structured Decision Making: A Practical Guide to Environmental Management Choices.** Robin Gregory, Lee Failing, Michael Harstone, Graham Long, Tim McDaniels, and Dan Ohlson. Wiley-Blackwell, 2012. 312 pp., illus. \$69.95 (ISBN 9781444333428 paper).

**Terrestrial Ecosystem Ecology: Principles and Applications.** Göran I. Agren and Folke O. Andersson. Cambridge University Press, 2012. 348 pp., illus. \$59.00 (ISBN 9781107648258 paper).

**A Tour of the Senses: How Your Brain Interprets the World.** John M. Henshaw. Johns Hopkins University Press, 2012. 288 pp., illus. \$29.95 (ISBN 9781421404363 cloth).

**Tree Thinking: An Introduction to Phylogenetic Biology.** David A. Baum and Stacey D. Smith. Roberts and Company, 2012. 496 pp., illus. \$75.00 (ISBN 9781936221165 cloth).

**Wild Hope: On the Front Lines of Conservation Success.** Andrew Balmford. University of Chicago Press, 2012. 264 pp., illus. \$26.00 (ISBN 9780226035970 cloth).

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