

## JOURNAL NOTICE

DOUGLAS J. FUTUYMA, H. BRADLEY SHAFFER, AND DANIEL SIMBERLOFF, EDs. 2020. **Annual Review of Ecology, Evolution, and Systematics, Volume 51.** (ISSN: 1543-592X, ISBN-13: 978-0-8243-1451-4, hbk). Annual Reviews, Inc., 4139 El Camino Way, P.O. Box 10139, Palo Alto, California 94303, U.S.A. (**Orders:** annualreviews.org, science@annualreviews.org), \$118.00 US, 612 pp., 9½" × 7½".

ABOUT THIS JOURNAL—The *Annual Review of Ecology, Evolution, and Systematics Environment and Resources*, in publication since 1970, covers significant developments in the fields of ecology, evolutionary biology, and systematics, as they apply to all life on Earth. Essay reviews cover topics ranging from phylogeny, speciation, and molecular evolution through behavior and evolutionary physiology to population dynamics, ecosystems processes, and applications in invasion biology, conservation, and environmental management.

**Contents of Volume 51:**

- Arthropod Origins: Integrating Paleontological and Molecular Evidence—*Gregory D. Edgecombe*  
 Diversification of Neotropical Freshwater Fishes—*James S. Albert, Victor A. Tagliacollo, Fernando Dagosta*  
 Resolving Food-Web Structure—*Robert M. Pringle and Matthew C. Hutchinson*  
 Hedgerows as Ecosystems: Service Delivery, Management, and Restoration—*Ian Montgomery, Tancredi Caruso, Neil Reid*  
 What We Don't Know About Diet-Breadth Evolution in Herbivorous Insects—*Nate B. Hardy, Chloe Kaczvinsky, Gwendolyn Bird, Benjamin B. Normark*  
 Extending Plant Defense Theory to Seeds—*James W. Dalling, Adam S. Davis, A. Elizabeth Arnold, Carolina Sarmiento, Paul-Camilo Zalamea*  
 Origin and Evolution of the Turtle Body Plan—*Tyler R. Lyson and Gabriel S. Bever*  
 Our Current Understanding of Commensalism—*Kaitlyn A. Mathis and Judith L. Bronstein*  
 Evolutionary Dynamics and Consequences of Parthenogenesis in Vertebrates—*Matthew K. Fujita, Sonal Singhal, Tuliana O. Brunes, Jose A. Maldonado*  
 Ecological Interactions and Macroevolution: A New Field with Old Roots—*David H. Hembry and Marjorie G. Weber*  
 Genomic Prediction of (Mal) Adaptation Across Current and Future Climatic Landscapes—*Thibaut Capblancq, Matthew C. Fitzpatrick, Rachael A. Bay Moises Exposito-Alonso and Stephen R. Keller*  
 Food Webs and Ecosystems: Linking Species Interactions to the Carbon Cycle—*Oswald J. Schmitz and Shawn J. Leroux*  
 Ecology and Neurobiology of Fear in Free-Living Wildlife—*Liana Y. Zanette and Michael Clinchy*  
 Predator Effects on Plant-Pollinator Interactions, Plant Reproduction, Mating Systems, and Evolution—*Amanda D. Benoit and Susan Kalisz*  
 What Do We Really Know About Adaptation at Range Edges? —*Amy L. Angert, Megan G. Bontrager, Jon Ågren*  
 The Floral Microbiome: Plant, Pollinator, and Microbial Perspectives—*Rachel L. Vannette*  
 Parallelism in Flower Evolution and Development—*Carolyn A. Wessinger and Lena C. Hileman*  
 The Evolution of Mutualistic Dependence—*Guillaume Chomicki, E. Toby Kiers, Susanne S. Renner*  
 The Structure of Ecological Networks Across Levels of Organization—*Paulo R. Guimarães Jr.*  
 The Evolution of Annual and Perennial Plant Life Histories: Ecological Correlates and Genetic Mechanisms—*Jannice Friedman*  
 The Rules of Attraction: The Necessary Role of Animal Cognition in Explaining Conservation Failures and Successes—*Alison L. Greggor, Oded Berger-Tal, Daniel T. Blumstein*  
 Gene Drive Dynamics in Natural Populations: The Importance of Density Dependence, Space, and Sex—*Sumit Dhole, Alun L. Lloyd, Fred Gould*  
 Avian Diversity: Speciation, Macroevolution, and Ecological Function—*Joseph A. Tobias, Jente Ottenburghs, Alex L. Pigot*  
 Climate Disruption of Plant-Microbe Interactions—*Jennifer A. Rudgers, Michelle E. Afkhami, Lukas Bell-Dereske, Y. Anny Chung, Kerri M. Crawford, Stephanie N. Kivlin, Michael A. Mann, Martin A. Nuñez*  
 Intraspecific Genetic Variation and Species Interactions Contribute to Community Evolution—*Thomas G. Whitham, Gerard J. Allan, Hillary F. Cooper, and Stephen M. Shuster*