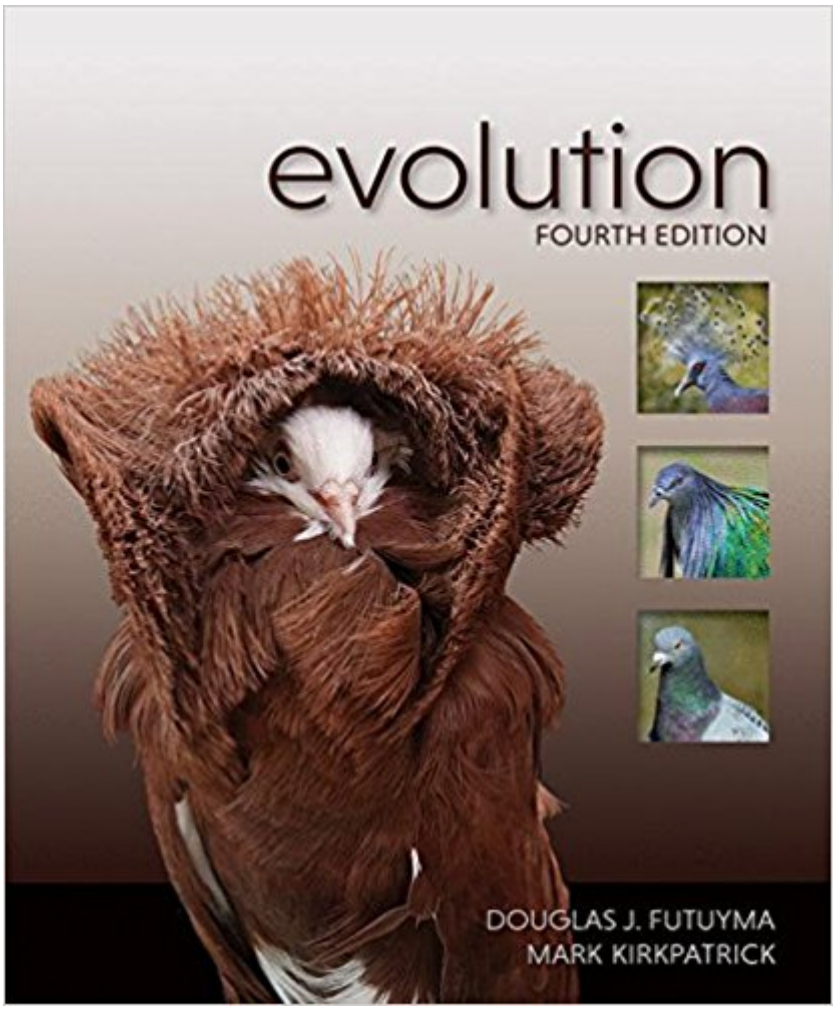
Evolution



Synopsis

Extensively rewritten and reorganized, this new edition of Evolution--featuring a new coauthor: Mark Kirkpatrick (The University of Texas at Austin)--offers additional expertise in evolutionary genetics and genomics, the fastest-developing area of evolutionary biology. Directed toward an undergraduate audience, the text emphasizes the interplay between theory and empirical tests of hypotheses, thus acquainting students with the process of science. It addresses major themes--including the history of evolution, evolutionary processes, adaptation, and evolution as an explanatory framework--at levels of biological organization ranging from genomes to ecological communities.For StudentsCompanion WebsiteThe Evolution, Third Edition, Companion Website features review and study tools to help students master the material presented in the textbook. Access to the site is free of charge, and requires no access code. (Instructor registration is required in order for students to access the quizzes.) The site includes the following resources:* Chapter Outlines and Summaries: Concise overviews of the important topics covered in each chapter.* Data Analysis Exercises: Expanded for the third edition, these inquiry-based exercises involve students in working with data and analyzing methods and conclusions from published papers.* Simulation Exercises: Interactive modules that allow students to explore many of the dynamic processes of evolution, and answer questions based on the results they observe.* Online Quizzes: Quizzes that cover all the major concepts introduced in each chapter. These quizzes are assignable by the instructor.* Flashcards & Key Terms: Easy-to-use activities that help students learn all the key terminology introduced in each chapter.* The complete GlossaryFor InstructorsInstructor's Resource LibraryThe Evolution, Third Edition, Instructor's Resource Library includes a variety of resources to help you develop your course and deliver your lectures. The IRL includes the following resources:* Textbook Figures and Tables: All the figures (including photographs) and tables from the textbook are provided as JPEGs (both high- and low-resolution), reformatted and relabeled for optimal readability when projected.* PowerPoint Presentations: For each chapter, all of the chapter's figures and tables are provided in a ready-to-use PowerPoint presentation, making it easy to quickly insert figures into your own lecture presentations.* Answers to the textbook end-of-chapter Problems and Discussion Topics* Quiz Questions from the Companion Website* Data Analysis and Simulation Exercises from the Companion Website, with answersOnline QuizzingA set of online quizzes is available via the Companion Website. These quizzes can be assigned or released for student self-study, at the instructor's discretion. Instructors can also add their own questions to the quizzing system, to create custom quizzes. Results can be viewed online or downloaded for use in gradebook programs. (Instructor registration is required for student access

to the quizzes.)

Book Information

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Customer Reviews

Douglas J. Futuyma is Distinguished Professor in the Department of Ecology and Evolution at the State University of New York at Stony Brook. He received his B.S. from Cornell University and his Ph. D. in Zoology at the University of Michigan with Lawrence Slobodkin. Dr. Futuyma is the author of three previous editions of Evolution, as well as three editions of its predecessor, Evolutionary Biology. He received the 1997 Sewall Wright Award of the American Society of Naturalists and the 2012 Joseph Leidy Award of the Academy of Natural Sciences of Drexel University (Philadelphia). Dr. Futuyma has served as President of the Society for the Study of Evolution, the American Society of Naturalists, and the American Institute of Biological Sciences, and was elected a Fellow of the American Academy of Arts and Sciences in 1996 and the National Academy of Sciences in 2006. He has served as Editor of Evolution and is currently Editor of the Annual Review of Ecology, Evolution, and Systematics. In 2013, he was recognized as Honorary Doctor by the National University of Mongolia. An avid naturalist, his major research interests include evolution of interactions among insects and plants, speciation, and evolution of community structure.Mark Kirkpatrick is the Painter Centennial Professor of Genetics in the Department of Integrative Biology at the University of Texas at Austin. He received his B.A. in Biology from Harvard in 1978 and his Ph.D. in Zoology from the University of Washington with Monty Slatkin in 1983. Dr. Kirkpatrick has received a Guggenheim Fellowship (1997) and a Poste Rouge Fellowship (France, 1997). He is a Fellow of the American Academy of Arts and Sciences (2008), and of the American Association for the Advancement of Science (2016). Dr. Kirkpatrick received the Sewall Wright Award from the

American Society of Naturalists (2014). He has served as Associate Editor of The American Naturalist, Theoretical Population Biology, and Genetics, and on the Editorial Boards of The Annual Review of Ecology, Evolution, and Systematics and Proceedings of the Royal Society of London. Dr. Kirkpatrick's research interests are in evolutionary genetics. He has worked on sexual selection, quantitative genetics, speciation, and species ranges. Current research topics include the evolution of sex determination and chromosome rearrangements.