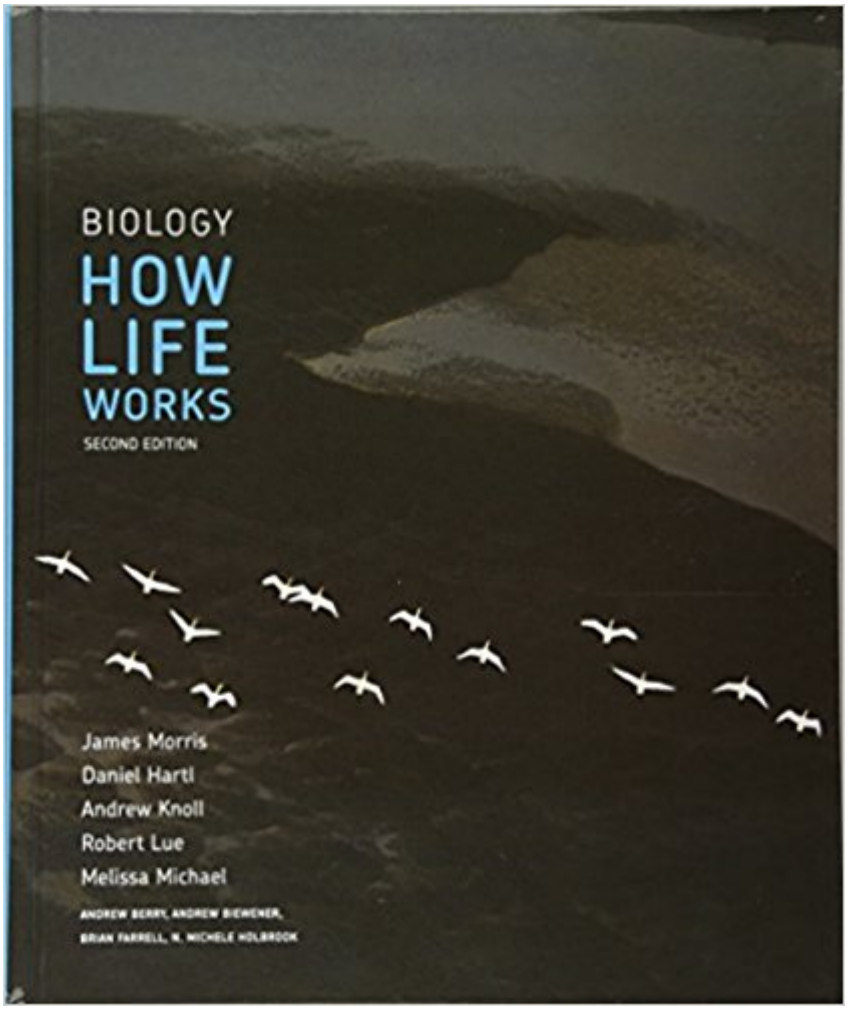
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Biology: How Life Works - Standalone Book



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Synopsis

Note:This ISBN 1464126097 does not include access code. Biology: How Life Works was written in response to recent and exciting changes in biology, education, and technology with the goal of helping students to think like biologists. The text, visual program, and assessments were developed together to provide students with the best resources to gain an understanding of modern biology. Content is selected carefully, is integrated to illustrate the connections between concepts, and follows six themes that are crucial to biology: the scientific method, chemical and physical principles, cells, evolution, ecological systems, and human impact. The second edition continues this approach, but includes expanded coverage of ecology, new in-class activities to assist instructors in active teaching, new pedagogical support for visual synthesis maps, and expanded and improved assessment.

Book Information

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Customer Reviews

James R. Morris is Associate Professor in the Biology Department at Brandeis University. He teaches a wide variety of courses for majors and non-majors in evolution, genetics, genomics, anatomy, and health sciences. In addition, he teaches a first-year seminar focusing on Darwin s On the Origin of Species. He is the recipient of numerous teaching awards from Harvard and Brandeis. His research focuses on the rapidly growing field of epigenetics, making use of the fruit fly Drosophila melanogaster as a model organism. He currently pursues this research with undergraduates in order to give them the opportunity to do genuine, laboratory-based research early in their scientific careers. Dr. Morris received a Ph.D. in genetics from Harvard University and an

M.D. from Harvard Medical School. In addition, he was a Junior Fellow in the Society of Fellows at Harvard University, gave talks to the public on current science at the Museum of Science in Boston, and works on promoting public understanding of personal genetics and genomics. Daniel L. Hartl is the Higgins Professor of Biology in the Department of Organismic and Evolutionary Biology at Harvard University. He has taught highly popular courses in genetics and evolution at the introductory and advanced levels. His lab studies molecular evolutionary genetics and population genetics and genomics. Dr. Hartl is the recipient of the Samuel Weiner Outstanding Scholar Award and the Medal of the Stazione Zoologica Anton Dohm Naples. He is a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He has served as President of the Genetics Society of America and President of the Society for Molecular Biology and Evolution. Dr. Hartl s Ph.D. was awarded by the University of Wisconsin, and he did post-doctoral studies at the University of California, Berkeley. Prior to joining the Harvard faculty, he served on the faculties of the University of Minnesota, Purdue University, and Washington University Medical School. In addition to publishing more than 350 scientific articles, Dr. Hartl has authored or coauthored 30 books. Andrew H. Knoll is the Fisher Professor of Natural History in the Department of Organismic and Evolutionary Biology at Harvard University. He is also Professor of Earth and Planetary Sciences. Dr. Knoll teaches introductory courses in both departments. His research focuses on the early evolution of life, Precambrian environmental history, and the interconnections between the two. He has also worked extensively on the early evolution of animals, mass extinction, and plant evolution. He currently serves on the science team for NASA s mission to Mars. Dr. Knoll received the Phi Beta Kappa Book Award in Science for Life on a Young Planet. Other honors include the Paleontological Society Medal and Wollaston Medal of the Geological Society, London. He is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, and the American Philosophical Society. He received his Ph.D from Harvard University and then taught at Oberlin College before returning to Harvard. Robert A. Lue is Professor in the Department of Molecular and Cellular Biology and Director of Life Science Education at Harvard University. He regularly teaches in Harvard s first-year Life Sciences program and upper-level courses in cell biology. He has a longstanding commitment to interdisciplinary teaching and research, and chaired the faculty committee that developed an integrated science course to serve multiple science majors and premedical students. Dr. Lue has also developed award-winning multimedia, including the animation The Inner Life of the Cell. He has coauthored undergraduate biology textbooks and chaired education conferences on college biology for the National Academies and the National Science Foundation, and diversity in science for the Howard Hughes Medical Institute and the

National Institutes of Health. He also founded and directs a Harvard life sciences outreach program that serves over fifty high schools. He received his Ph.D. from Harvard University. Melissa Michael is Director for Core Curriculum and Assistant Director for Undergraduate Instruction for the School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign. A cell biologist, she primarily focuses on the continuing development of the School s undergraduate curricula. She is currently engaged in several projects aimed at improving instruction and assessment atthe course and program levels. Her research focuses primarily on how creative assessment strategies affect student learning outcomes, and how outcomes in large-enrollment courses can be improved through the use of formative assessment in active classrooms. Andrew Berry is Lecturer in the Department of Organismic and Evolutionary Biology and an undergraduate advisor in the Life Sciences at Harvard University. With research interests in evolutionary biology and history of science, he teaches courses that either focus on one of the areas or combine the two. He has written two books: Infinite Tropics, a collection of the writings of Alfred Russel Wallace, and, with James D. Watson, DNA: The Secret of Life, which is part history, part exploration of the controversies surrounding DNA-based technologies.Andrew Biewener is Charles P. Lyman Professor of Biology in the Department of Organismic and Evolutionary Biology at Harvard University and Director of the Concord Field Station. He teaches both introductory and advanced courses in anatomy, physiology, and biomechanics. His research focuses on the comparative biomechanics and neuromuscular control of mammalian and avian locomotion, with relevance to biorobotics. He is currently Deputy Editor-in-Chief for the Journal of Experimental Biology. He also served as President of the American Society of Biomechanics.Brian D. Farrell is Director of the David Rockefeller Center for Latin American Studies and Professor of Organismic and Evolutionary Biology and Curator in Entomology at the Museum of Comparative Zoology at Harvard University. He is an authority on coevolution between insects and plants and a specialist on the biology of beetles. He is the author of many scientific papers and book chapters on the evolution of ecological interactions between plants, beetles, and other insects in the tropics and temperate zone. Professor Farrell also spearheads initiatives to repatriate digital information from scientific specimens of insects in museums to their tropical countries of origin. In 2011 2012, he was a Fulbright Scholar to the Universidad Autonoma de Santo Domingo in the Dominican Republic. Professor Farrell received a BA degree in Zoology and Botany from the University of Vermont and MS and PhD degrees from the University of Maryland. N. Michele Holbrook is Charles Bullard Professor of Forestry in the Department of Organismic and Evolutionary Biology at Harvard University. She teaches an introductory course on biodiversity as well as advanced courses in plant biology. She studies the

physics and physiology of vascular transport in plants with the goal of understanding how constraints on the movement of water and solutes between soil and leaves influences ecological and evolutionary processes."

Excellent 2nd Edition .It is An improvement on the 1st edition. I noticed several updates on advances of the last several years. Newer photos & fresh illustrations. Two page layouts, well illustrated & clear; were a help in Biology 1 & 2. Comprehensive treatment and multidisciplinary approach. Many student helps reinforce the lifelong learning & college student experience. Recommended for students & professors. Ideal for STEM high schools; Junior Colleges; Senior 4 year Colleges; & many Graduate schools; up to Master's Degree level. I am using it presently in my Summer School classes. Lucky Comunale

It's good, looks like it was only used for one semester or something. To be I came across a couple pages with light stains (looks like someone was eating while studying), but it didn't really bother me since the rest looks new-ish. It was packaged weird so the spine got a little messed up it seems. It kind of twists? a bit when I pick up the book and move it around and stuff.

A lot of misprints that cause confusion with students. Primarily misprints occur in the figures and tables that are meant to help a student visualize the written material. The written material is fine but those misprints cause a lot of confusion. Definitely needs a revision - for all the mistakes I have found thus far, this book is waaaay overpriced!

Hate to spend this much on a book but it comes with launchpad and it's the cheapest way I could find to get the two. Code worked, and I've been able to transfer my launchpad access from class to class through the semesters. It's required, just do it the easy way and get the bundle and claim it on your taxes.

I rented this book for the semester for my University work. It came in perfect condition and is an overall great book to learn from! The material is laid out well and easy to follow.

This was the exact textbook I needed for class but it's sooooo much cheaper and it has all the information I need

This isn’t a bad textbook, but I am not terribly impressed with it either. It has the basic information you’d expect with pictures and all. There are only limited practice problems, and the consensus with my peers and I is just that the examples it provides take more time than they’re worth. But like I said, it isn’t bad. It’s just not great.

Hated Biology, loved the book. Paperback was much lighter and the product was shipped faster than said it would be.

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