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Principles of Biology - Rongsun Pu 2013-08-13

Exploring Biology in the Laboratory - Murray Paton Pendarvis 2018

Exploring Biology in the Lab - Camden County College 2006-08-28

Exploring Biology - Wilke 1996-04

Exploring Biology in the Laboratory - Alyce M. Fiedler 1974

Discovering Biology in the Lab - Tara A. Scully 2012-02-17
A lab manual that builds on the goals and themes in Discover Biology to make students more scientifically literate.

Lab Dynamics - Carl M. Cohen 2005
"Lab Dynamics is a book about the challenges to doing science and dealing with the individuals involved, including oneself. The authors, a scientist and a psychotherapist, draw on principles of group and behavioral psychology but speak to scientists in their own language about their own experiences. They offer in-depth, practical advice, real-life examples, and exercises tailored to scientific and technical workplaces on topics as diverse as conflict resolution, negotiation, dealing with supervision, working with competing peers, and making the transition from academia to industry." "This is a uniquely valuable contribution to the scientific literature, on a subject of direct importance to lab heads, postdocs, and students. It is also required reading for senior staff concerned about improving efficiency and effectiveness in academic and industrial research."--BOOK JACKET

Campbell Biology, Books a la Carte Edition - Lisa A. Urry 2016-10-27
NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. The Eleventh Edition of the best-selling text Campbell BIOLOGY sets you on the path to success in biology through its clear and engaging narrative, superior skills instruction, and innovative use of art, photos, and fully integrated media resources to enhance teaching and learning. To engage you in developing a deeper understanding of biology, the Eleventh Edition challenges you to apply knowledge and skills to a variety of NEW! hands-on activities and exercises in the text and online. NEW! Problem-Solving Exercises challenge you to apply scientific skills and interpret data in the context of solving a real-world problem. NEW! Visualizing Figures and Visual Skills Questions provide practice interpreting and creating visual representations in biology. NEW! Content updates throughout the text reflect rapidly evolving research in the fields of genomics, gene editing technology (CRISPR), microbiomes, the impacts of climate change across the biological hierarchy, and more. Significant revisions have been made to Unit 8, Ecology, including a deeper integration of evolutionary principles. NEW! A virtual layer to the print text incorporates media references into the printed text to direct you towards content in the Study Area and eText that will help you prepare for class and succeed in exams--Videos, Animations, Get Ready for This Chapter, Figure Walkthroughs, Vocabulary Self-Quizzes, Practice Tests, MP3 Tutors, and Interviews. (Coming summer 2017). NEW! QR codes and URLs within the Chapter Review provide easy access to Vocabulary Self-Quizzes and Practice Tests for each chapter that can be used on smartphones, tablets, and computers.

Exploring Zoology: A Laboratory Guide - David G. Smith 2014-01-01
Exploring Zoology: A Laboratory Guide is designed to provide a comprehensive, hands-on introduction to the field of zoology.Ê This manual provides a diverse series of observational and investigative exercises, delving into the anatomy, behavior, physiology, and ecology of the major invertebrate and vertebrate lineages.

Exploring Biology in the Laboratory - Murray P. Pendarvis

Exploring Mathematical Modeling in Biology Through Case Studies and Experimental Activities - Rebecca Sanft 2020-04-15
Exploring Mathematical Modeling in Biology through Case Studies and Experimental Activities provides supporting materials for courses taken by students majoring in mathematics, computer science or in the life sciences. The book's cases and lab exercises focus on hypothesis testing and model development in the context of real data. The supporting mathematical, coding and biological background permit readers to explore a problem, understand assumptions, and the meaning of their results. The experiential components provide hands-on learning both in the lab and on the computer. As a beginning text in modeling, readers will learn to value the approach and apply competencies in other settings. Included case studies focus on building a model to solve a particular biological problem from concept and translation into a mathematical form, to validating the parameters, testing the quality of the model and finally interpreting the outcome in biological terms. The book also shows how particular mathematical approaches are adapted to a variety of problems at multiple biological scales. Finally, the labs bring the biological problems and the practical issues of collecting data to actually test the model and/or adapting the mathematics to the data that can be collected. Presents a single volume on mathematics and biological examples, with data and wet lab experiences suitable for non-experts Contains three real-world biological case studies and one wet lab for application of the mathematical models Includes R code

templates throughout the text, which are also available through an online repository, along with the necessary data files to complete all projects and labs

Exploring Creation with Biology - Jay L. Wile 2005-01-01

Illustrated Guide to Home Biology Experiments - Robert Bruce Thompson 2012-04-17

Experience the magic of biology in your own home lab. This hands-on introduction includes more than 30 educational (and fun) experiments that help you explore this fascinating field on your own. Perfect for middle- and high-school students and DIY enthusiasts, this full-color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home. The Illustrated Guide to Home Biology Experiments is also written with the needs of homeschoolers firmly in mind, as well as adults who are eager to explore the science of nature as a life-long hobby. To get the most from the experiments, we recommend using this guide in conjunction with a standard biology text, such as the freely downloadable CK-12 Biology (ck-12.org). Master the use of the microscope, including sectioning and staining Build and observe microcosms, soda-bottle worlds of pond life Investigate the chemistry of life from simple acids, bases, and buffers to complex carbohydrates, proteins, lipids, enzymes, and DNA Extract, isolate, and observe DNA Explore photosynthesis, osmosis, nitrogen fixation, and other life processes Investigate the cell cycle (mitosis and cytokinesis) Observe populations and ecosystems, and perform air and water pollution tests Investigate genetics and inheritance Do hands-on microbiology, from simple culturing to micro-evolution of bacteria by forced selection Gain hands-on lab experience to prepare for the AP Biology exam Through their company, The Home Scientist, LLC (thehomescientist.com/biology), the authors also offer inexpensive custom kits that provide specialized equipment and supplies you'll need to complete the experiments. Add a microscope and some common household items and you're good to go.

Exploring Biology in the Laboratory - Murray Paton Pendarvis 2018

Exploring the Building Blocks of Science Book 1 Student Textbook (Softcover) - Rebecca W. Keller 2014-01-18

Introduce kids to real science. Foundational scientific concepts and terminology are made easy to understand. Year-long curriculum has 4 chapters each of 5 scientific disciplines (chemistry, biology, physics, geology, and astronomy). Full color textbook with many graphics to reinforce the concepts presented and make the book fun to read.

Exploring Biology in the Laboratory - Murray Paton Pendarvis 2014

Exploring Biology in the Laboratory, Second edition, is a comprehensive manual appropriate for introductory biology lab courses. The clearly written activities emphasize the unity of all living things and the evolutionary forces that have resulted in (and continue to act on) the diversity that we see all around us.

Landscapes and Labscapes - Robert E. Kohler 2010-11-15

What is it like to do field biology in a world that exalts experiments and laboratories? How have field biologists assimilated laboratory values and practices, and crafted an exact, quantitative science without losing their naturalist souls? In Landscapes and Labscapes, Robert E. Kohler explores the people, places, and practices of field biology in the United States from the 1890s to the 1950s. He takes readers into the fields and forests where field biologists learned to count and measure nature and to read the imperfect records of "nature's experiments." He shows how field researchers use nature's particularities to develop "practices of place" that achieve in nature what laboratory researchers can only do with simplified experiments. Using historical frontiers as models, Kohler shows how biologists created vigorous new border sciences of ecology and evolutionary biology.

The Annotated Build-It-Yourself Science Laboratory - Windell Oskay 2015-04-30

Raymond E. Barrett's Build-It-Yourself Science Laboratory is a classic book that took on an audacious task: to show young readers in the 1960s how to build a complete working science lab for chemistry, biology, and physics--and how to perform experiments with those tools. The experiments in this book are fearless and bold by today's standards--any number of the experiments might never be mentioned in a modern book for young readers! Yet, many from previous generations fondly remember how we as a society used to embrace scientific learning. This new version of Barrett's book has been updated for today's world with annotations and updates from Windell Oskay of Evil Mad Scientist Laboratories, including extensive notes about modern safety practices, suggestions on where to find the parts you need, and tips for building upon Barrett's ideas with modern technology. With this book, you'll be ready to take on your own scientific explorations at school, work, or home.

Exploring Human Biology in the Laboratory - Matthew M. Douglas 2016-01-01

Exploring Human Biology in the Laboratory is a comprehensive manual appropriate for human biology lab courses. This edition features a streamlined set of clearly written activities. These exercises emphasize the anatomy, physiology, ecology, and evolution of humans within their environment.

The Nature of Life - Anton E. Lawson 1995

This lab manual is designed for A Level and first-year undergraduate students of general biology. It is split into 40 separate experiments, all of which have been designed to enhance students' deductive and reasoning powers. Pupils are expected to describe the results of the experiments, reason why they acheived these results and be prepared to explain the biological processes that have occurred.

Exploring Creation with Physical Science - Jay L. Wile 2007

This should be the last course a student takes before high school biology. Typically, we recommend that the student take this course during the same year that he or she is taking prealgebra. Exploring Creation With Physical Science provides a detailed introduction to the physical environment and some of the basic laws that make it work. The fairly broad scope of the book provides the student with a good understanding of the earth's atmosphere, hydrosphere, and lithosphere. It also covers details on weather, motion, Newton's Laws, gravity, the solar system, atomic structure, radiation, nuclear reactions, stars, and galaxies. The second edition of our physical science course has several features that enhance the value of the course: * There is more color in this edition as compared to the previous edition, and many of the drawings that are in the first edition have been replaced by higher-quality drawings. * There are more experiments in this edition than there were in the previous one. In addition, some of the experiments that were in the previous edition have been changed to make them even more interesting and easy to perform. * Advanced students who have the time and the ability for additional learning are directed to online resources that give them access to advanced subject matter. * To aid the student in reviewing the course as a whole, there is an appendix that contains questions which cover the entire course. The solutions and tests manual has the answers to those questions. Because of the differences between the first and second editions, students in a group setting cannot use both. They must all have the same edition. A further description of the changes made to our second edition

courses can be found in the sidebar on page 32.
Exploring General, Organic, & Biochemistry in the Laboratory - William G. O'Neal 2017-02-01
This full-color, comprehensive, affordable manual is appropriate for two-semester introductory chemistry courses. It is loaded with clearly written exercises, critical thinking questions, and full-color illustrations and photographs, providing ample visual support for experiment set up, technique, and results.
Exploring Marine Biology - Paul A. Haefner 1996
A manual for introductory courses in the biological sciences for the nonscience major as well as for a one-term introductory course in marine biology.
Exploring Biology in the Laboratory, 3e - Murray P Pendarvis 2018-02-01
This full-color, comprehensive, affordable introductory biology manual is appropriate for both majors and nonmajors laboratory courses. All general biology topics are covered extensively, and the manual is designed to be used with a minimum of outside reference material. The activities emphasize the unity of all living things and the evolutionary forces that have resulted in, and continue to act on, the diversity that we see around us today.
Biology Laboratory Manual for the Telecourse Cycles of Life - Exploring Biology - Cecie Starr 1997-06
Available from Brooks/Cole, this lab manual accompanies the Cycles of Life telecourse. Brooks/Cole is a part of Cengage Learning. For information about bundling it with any Starr textbook, contact your Cengage Learning representative.
Drosophila Neurobiology - Bing Zhang 2010
Based on Cold Spring Harbor Laboratory's long-running course, Drosophila Neurobiology: A Laboratory Manual offers detailed protocols and background material for researchers interested in using Drosophila as an experimental model for investigating the nervous system. This manual covers three approaches to the field: analysis of neural development, recording and imaging activities in the nervous system, and analysis of behavior. Techniques described include molecular, genetic, electrophysiological, imaging, behavioral and developmental methods.
Exploring Biology in the Laboratory: Core Concepts - Murray P. Pendarvis 2019-02-01
Exploring Biology in the Laboratory: Core Concepts is a comprehensive manual appropriate for introductory biology lab courses. This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired. Based on the two-semester version of Exploring Biology in the Laboratory, 3e, this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life. These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in, and continue to act on, the diversity that we see around us today.
Exploring Biology in the Laboratory - Shree R. Singh 2003-08-20
EXPLORING BIOLOGY IN THE LABORATORY was written for students taking introductory biology course. The manual contains twenty-four laboratory sections ranging from the basic scientific inquiry to animal biology and organ systems, thus this manual can be used for a two-part biology course. The sequence of laboratory exercises follow majority of biology textbooks. Each laboratory contains simple and meaningful exercises that teach basic concepts. Most of the supplies used in the experiments are cheap and available from scientific vendors. The laboratory exercises begin with a brief introduction of the concepts and then there are 2-3 experiments that can be completed in a two-hour lab session. At the end of each lab there are multiple choice “Review Questions”. This lab manual contains a “Lab Assignment” section at the end of each lab section that students can complete after lab experiments and turn in to their instructors as part of the lab assignment. The lab assignment section is designed to test student’s critical thinking and writing ability.
Exploring Marine Biology - Paul A. Haefner, Jr. 1996-05-05
This book is the only manual of its kind with exercises that apply to the diverse marine habitats of North America. The manual meets the needs of any introductory marine biology student, from the non-major to the prospective major with a background in the biological sciences. Each unit includes a broad range of exercises, so that instructors using the manual can select the exercises that best match the needs of their introductory course. The manual is also unique in providing extensively illustrated identification keys for three of the major marine lifeforms, allowing students to identify and classify organisms within the invertebrates, plankton, and fishes.
Exploring Anatomy & Physiology in the Laboratory Core Concepts, 2e - Erin C Amerman 2018-02-01
This brief version of Exploring Anatomy and Physiology in the Laboratory, 3e, is intended for one-semester anatomy and physiology courses geared toward allied health students. Exploring Anatomy & Physiology Laboratory: Core Concepts, by Erin C. Amerman is a comprehensive, beautifully illustrated, and affordably priced lab manual that features an innovative, interactive approach to engage your students and help ensure a deeper understanding of A&P.
Exploring Animal Behavior in Laboratory and Field - Heather Zimbler-DeLorenzo 2021-07-19
Exploring Animal Behavior in Laboratory and Field, Second Edition provides a comprehensive manual on animal behavior lab activities. This new edition brings together basic research and methods, presenting applications and problem-solving techniques. It provides all the details to successfully run designed activities while also offering flexibility and ease in setup. The exercises in this volume address animal behavior at all levels, describing behavior, theory, application and communication. Each lab provides details on how to successfully run the activity while also offering flexibility to instructors. This is an important resource for students educators, researchers and practitioners who want to explore and study animal behavior. The field of animal behavior has changed dramatically in the past 15 - 20 years, including a greater use and availability of technology and statistical analysis. In addition, animal behavior has taken on a more applied role in the last decade, with a greater emphasis on conservation and applied behavior, hence the necessity for new resources on the topic. Offers an up-to-date representation of animal behavior Examines ethics and approvals for the study of vertebrate animals Includes contributions from a large field of expertise in the Animal Behavior Society Provides a flexible resource that can be used as a laboratory manual or in a flipped classroom setting
Exploring Biology: a Laboratory Manual for Introductory Biology - Paul Florence 2013-04-26

Laboratory Life - Bruno Latour 2013-04-04
This highly original work presents laboratory science in a deliberately skeptical way: as an anthropological approach to the culture of the scientist. Drawing on recent work in literary criticism, the authors study how the social world of the laboratory produces papers and other "texts,"' and how the scientific vision of reality becomes that set of statements considered, for the time being, too expensive to change. The book is based on field work done by Bruno Latour in Roger Guillemin's laboratory at the Salk Institute and provides an important link between the sociology of modern sciences and laboratory studies in the history of science.

Explorations in Basic Biology - Stanley E. Gunstream 1972

Exploring Anatomy & Physiology in the Laboratory - Erin C. Amerman 2010
Exploring Anatomy & Physiology Laboratory (EAPL) by Erin C. Amerman is a comprehensive manual appropriate for two-semester A&P courses. This beautifully illustrated and affordably priced lab manual uses an innovative approach to engage your students and help ensure a deeper understanding of A&P. Along with the comprehensive coverage of all of the major topics studied in an A&P laboratory, EAPL contains several unique features, designed to assist both the students and the instructors, including: Pre-Lab Exercises: PLEs encourage students to actively prepare for the lab by defining key terms, using labeling and coloring exercises to learn anatomical structures, and reviewing vital material from previous units, saving you from having to spend excessive time reviewing material from the lecture. Organized Anatomy: Many lab manuals do not offer specific lists of structures that the students are to identify. Instead, those lab manuals scatter the anatomical structures throughout the unit, making it difficult for both the student and instructor. EAPL features organized lists of structures that provide a centralized list for the students, in turn making it easy for instructors to customize based upon preference. Model Inventories: Model Inventories help students catalog the specimens they see in the lab. The emphasis on examination, description, pronunciation, and writing of the names of anatomical structures encourages students to be actively involved in the learning process and allows them to better retain the material. Focused Activities: Focused Activity describes the overall philosophy of this lab manual. Students learn best when they are actively involved in the laboratory. Exploring Anatomy & Physiology in the Laboratory incorporates features designed for students to learn and retain the information. EAPL asks the students to participate, describe, write, draw, etc. Most other lab manuals simply ask students to read, notice, obse
Exploring biology in the laboratory - Murray P. Pendarvis 2011

Biology Laboratory Manual - Darrell Vodopich 2007-02-05
This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques. The experiments and procedures are simple, safe, easy to perform, and especially appropriate for large classes. Few experiments require a second class-meeting to complete the procedure. Each exercise includes many photographs, traditional topics, and experiments that help students learn about life. Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students, the style of the instructor, and the facilities available.
BioBuilder - Natalie Kuldell PhD. 2015-06-22
Today’s synthetic biologists are in the early stages of engineering living cells to help treat diseases, sense toxic compounds in the environment, and produce valuable drugs. With this manual, you can be part of it. Based on the BioBuilder curriculum, this valuable book provides open-access, modular, hands-on lessons in synthetic biology for secondary and post-secondary classrooms and laboratories. It also serves as an introduction to the field for science and engineering enthusiasts. Developed at MIT in collaboration with award-winning high school teachers, BioBuilder teaches the foundational ideas of the emerging synthetic biology field, as well as key aspects of biological engineering that researchers are exploring in labs throughout the world. These lessons will empower teachers and students to explore and be part of solving persistent real-world challenges. Learn the fundamentals of biodesign and DNA engineering Explore important ethical issues raised by examples of synthetic biology Investigate the BioBuilder labs that probe the design-build-test cycle Test synthetic living systems designed and built by engineers Measure several variants of an enzyme-generating genetic circuit Model "bacterial photography" that changes a strain’s light sensitivity Build living systems to produce purple or green pigment Optimize baker’s yeast to produce ?-carotene
Essentials of Glycobiology - Ajit Varki 1999
Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.
Van de Graaff's Photographic Atlas for the Biology Laboratory - Kent Marshall Van De Graaff 2013
A Photographic Atlas for the Biology Laboratory, Seventh Edition by Byron J. Adams and John L. Crawley is a full-color photographic atlas that provides a balanced visual representation of the diversity of biological organisms. It is designed to accompany any biology textbook or laboratory manual.