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*The previous three editions
of BIOLOGY, written by Dr.
Rob Brooker, Dr. Eric
Widmaier, Dr. Linda Graham,*

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and Dr. Peter Stiling, have reached thousands of students and provided them with an outstanding view of the biological world. Now, the fourth edition has gotten even better! The author team is dedicated to

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producing the most engaging and current text that is available for undergraduate students who are majoring in biology. The authors want students to be inspired by the field of biology and become critical thinkers.

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They understand the goal of a professor is to prepare students for future course work, lab experiences, and careers in the sciences.

Building on the successes of the previous editions, the fourth edition reflects a

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focus on core competencies and provides a more learner-centered approach. The strength of an engaging and current text is improved with the addition of new pedagogical features that help develop and strengthen

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critical thinking skills. Overview Inspired by recommendations from the AAAS vision and Change Report. Principles of Biology is reflective of the shift taking place in the majors biology course from

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large and detail rich to short and conceptual, with a focus on new, cutting-edge science. A succinct and inviting text focused on central concepts, Principles of Biology helps students connect fundamental

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principles while challenging them to develop and hone critical thinking skills. Five new chapters introduce cutting-edge topics that will benefit students who continue their study of biology in future courses

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(Chapters 11, 16, 24, 41 and 47)

Principles of Biology is reflective of the shift taking place in the majors biology course from large and detail rich to short and conceptual, with a focus on

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new, cutting-edge science. A succinct and inviting text focused on central concepts, Principles of Biology helps students connect fundamental principles while challenging them to develop and hone critical thinking skills.

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LOOSE-LEAF BIOLOGY

Modern Genetic Analysis

Biology, Volume 1:

*Chemistry, Cells and
Genetics*

The Natural History of

Inbreeding and Outbreeding

Genetics: Analysis and Principles is

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a one-semester, introductory genetics textbook that takes an experimental approach to understanding genetics. By weaving one or two experiments into the narrative of each chapter, students can simultaneously explore the

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scientific method and understand the genetic principles that have been learned from these experiments. Rob Brooker, author of market leading texts in Genetics and Intro Biology for majors, brings his clear and accessible writing style to this new

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edition. The integration of the genetics text and the power of digital world are now complete with McGraw-Hill's ConnectPlus. Users who purchase Connect Plus receive access to the full online ebook version of the textbook.

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This Volume of BIOLOGY covers Evolution, Diversity and Ecology. The Brooker et. al text features an evolutionary focus with an emphasis on scientific inquiry.

Concepts of Genetics is a one semester introductory genetics text

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that explains genetics concepts in a concise, engaging and up-to-date manner. Rob Brooker, author of market leading texts in Genetics and Intro Biology for majors, brings his clear and accessible writing style to this briefer genetics text. He

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employs the use of experimentation and stresses the fundamentals of the Scientific Method in presenting genetics concepts, then further engages the reader through the use of formative assessment to assist the student in understanding the core

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genetic principles. The introduction of Learning Outcomes throughout the chapter in the 2nd edition helps the student focus on the key concepts presented in the chapter. Concepts of Genetics, 2e also stresses developing problem-solving

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skills with the new feature "Genetic TIPS" that breaks a problem down into conceptual parts (Topic, Information, Problem-Solving Strategy) to help students work through the answer. The 2nd edition will be more focused on core

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concepts with the narrowing of book content by eliminating specialty chapters that many courses do not have time to cover in detail (the full chapters on Developmental Genetics and Evolutionary Genetics--these general topics are discussed

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elsewhere, but not in the amount of detail in the first edition). The author has added new information regarding epigenetics and material on personalized medicine. The integration of the genetics text and the power of digital world are now

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complete with McGraw-Hill's ConnectPlus including LearnSmart. Users who purchase Connect Plus receive access to SmartBook and to the full online ebook version of the textbook.

Studyguide for Biology by Brooker,

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Robert J. , Isbn 9780077417901

Loose Leaf for Principles of Biology

Theoretical and Empirical

Perspectives

Biology

Inbreeding, the mating of close
kin, and outbreeding, the mating

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of distant relatives or unrelated organisms, have long been important subjects to evolutionary biologists. Inbreeding reduces genetic diversity in a population, increasing the likelihood that genetic defects will become

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widespread and deprive a population of the diversity it may need to cope with its environment. Most plants and animals have evolved behavioral and morphological mechanisms to avoid inbreeding. However, today

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many endangered species exist only in small, very isolated populations where inbreeding is unavoidable, so it has become a concern for conservationists. In this volume, twenty-six experts in evolution, behavior, and genetics

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examine the causes and consequences of inbreeding. The authors ask whether inbreeding is as problematic as biologists have thought, under what ecological conditions inbreeding occurs, and whether organisms that inbreed

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have mechanisms to dampen the anticipated problems of reduced genetic variation. The studies, including theoretical and empirical work on wild and captive populations, demonstrate that many plants and animals

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inbred to a greater extent than biologists have thought, with variable effects on individual fitness. Graduate students and researchers in evolutionary biology, animal behavior, ecology, and conservation biology will

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welcome this wide-ranging
collection.

This Volume of BIOLOGY covers
Plants and Animals. The Brooker
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The first and second editions of BIOLOGY, written by Dr. Rob Brooker, Dr. Eric Widmaier, Dr. Linda Graham, and Dr. Peter Stiling, has reached thousands of students and provided them with an outstanding view of the

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biological world. Now, the third edition has gotten even better! The author team is dedicated to producing the most engaging and current text that is available for undergraduate students who are majoring in biology. The authors

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successes of the first and second editions, the third edition reflects a focus on core competencies and provides a more learner-centered approach. The strength of an engaging and current text is improved with the addition of new

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pedagogical features that direct the students' learning goals and provide opportunities for assessment, to determine if students understand the concepts. Biology, Volume 3: Plants and Animals

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**The first edition of BIOLOGY,
written by Dr. Rob Brooker, Dr.
Eric Widmaier, Dr. Linda Graham,**

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and Dr. Peter Stiling, has reached thousands of students and provided them with an outstanding view of the biological world. Now, the second edition has gotten even better! The author team is

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dedicated to producing the most engaging and current text that is available for undergraduate students who are majoring in biology. We want our students to be inspired by the field of biology and become critical

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thinkers. To this end, we have made the following changes throughout the entire book. Each chapter in the second edition begins with an interesting story or set of observations that will catch the students' interests as

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they begin to read a chapter. To help students test their knowledge and critical thinking skills, we have increased the number of Concept Check questions that are associated with the figure legends and

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revised the many of the questions at the end of each chapter so they are at a higher level in Bloom's taxonomy. An answer key for the questions is now provided in an appendix at the end of the book. To further

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help students appreciate the scientific process, the Feature Investigation in each chapter now includes three new elements: a Conclusion, the original journal citation for the experiment, and questions that

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are directly related to the experiment. Many photographs and micrographs have been enlarged or replaced with better images. The presentation of the material has been refined by dividing some of the chapters

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into smaller sections and by the editing of complex sentences. With regard to the scientific content in the textbook, the author team has worked with hundreds of faculty reviewers to refine the first edition and to

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update the content so that our students are exposed to the most cutting edge material. Users who purchase Connect Plus receive access to the full online ebook version of the textbook.

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"Over the course of these editions, the ways in which biology is taught have dramatically changed. We have seen a shift away from the memorization of details, which are easily forgotten, and a

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movement toward emphasizing core concepts and critical thinking skills. The previous edition of Biology strengthened skill development by adding two new features, called CoreSKILLS and BioTIPS, which are aimed at

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helping students develop effective strategies for solving problems and applying their knowledge in novel situations. In this edition, we have focused our pedagogy on the five core concepts of biology as

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advocated by "Vision and Change". In addition to core concepts, "Vision and Change" has strongly advocated the development of core skills (also called core competencies). Those skills are emphasized in

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this textbook. A key goal of this textbook is to bring to life the five core concepts of biology and the core skills. These concepts and skills are highlighted in each chapter with a "Vision and Change" icon, which indicates

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subsections and figures that focus on one or more of them. With regard to the scientific content in the textbook, the author team has worked with faculty reviewers to refine this new edition and to update the

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content so that students are exposed to the most current material. In addition to new pedagogical additions involving Core Concepts, Core Skills, and Modeling Challenges, every chapter has been extensively

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**edited for clarity, presentation,
layout, readability, modifications
of artwork, and new and
challenging end-of-chapter
questions"--**

**Loose Leaf for Biology
LSC Evolution, Diversity and**

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Concepts of Genetics is a one
semester introductory genetics text
that explains genetics concepts in a

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concise, engaging and up to date manner. Rob Brooker, author of market leading texts in Genetics and Intro Biology for majors, brings his clear and accessible writing style to this new text. He employs the use of experimentation and stresses the

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this briefer genetics text. He employs the use of experimentation and stresses the fundamentals of the Scientific Method in presenting genetics concepts, then further engages the reader through the use of formative assessment to assist the

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Conservation Biology for All

***This Volume of BIOLOGY
covers Chemistry, Cell Biology,
and Genetics. The Brooker et.
al text features an***

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***evolutionary focus with an
emphasis on scientific inquiry.
"The Next Step in Biology We
are excited to present to you,
BIOLOGY, written by Dr. Rob
Brooker, Dr. Eric Widmaier, Dr.
Linda Graham, and Dr. Peter***

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Stiling; it is the next step in majors biology. In addition to being active researchers and experienced writers, the author team has taught majors biology for years. The goal in launching a new text is to

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***offer something better--a
comprehensive, modern text
featuring an evolutionary
focus with an emphasis on
scientific inquiry. We invite
you to take a few moments to
learn more about the many***

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***research, ecosystem services,
endangered species
management, extinctions, fire,
habitat loss, and invasive
species are covered.
Numerous textboxes
describing additional relevant***

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material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the

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developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species

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***diversity and richest centres of
endemism are to be found.
Sadly, developing world
conservation scientists have
found it difficult to access an
authoritative textbook, which
is particularly ironic since it is***

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these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that

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***they are in a better position to
protect their natural
resources.***

***LSC Plants and
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Biology, Volume 2: Evolution,
Diversity and Ecology***

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Genetics

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**Over the course of five
editions, the ways in which**

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(described later), which are**

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**biology as advocated by “Vision
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Concepts of Genetics is a one**

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The introduction of Learning**

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Outcomes throughout the chapter in the 2nd edition helps the student focus on the key concepts presented in the chapter. Concepts of Genetics, 2e also stresses developing problem-solving skills with the

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across the biosciences. It uniquely integrates the theories and practices that drive the fields of biology and medicine, comprehensively covering both the methods students will encounter in lab

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classes and those that underpin recent advances and discoveries. Its problem-solving approach continues with worked examples that set a challenge and then show students how the challenge is

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met. New to this edition are case studies, for example, that illustrate the relevance of the principles and techniques to the diagnosis and treatment of individual patients. Coverage is expanded to include a

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section on stem cells, chapters on immunochemical techniques and spectroscopy techniques, and additional chapters on drug discovery and development, and clinical biochemistry. Experimental

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design and the statistical analysis of data are emphasised throughout to ensure students are equipped to successfully plan their own experiments and examine the results obtained.

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**Student Study Guide/Solutions
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Genetics: Analysis and Principles is a one-semester, introductory genetics textbook that takes an experimental approach to understanding genetics. By weaving one or two experiments into the narrative of each chapter,

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