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the first edition 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 biological world now the second 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 we want our students to be inspired by the field of biology and become critical 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 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 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 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 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 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 update the content so that our students are exposed to the most cutting edge material

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 large and detail rich to short and conceptual 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

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 students can simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments

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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 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 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 different ways this text is the next step in biology to view a sample chapter go to brookerbiology.com

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author of market leading texts in genetics and intro biology for majors brings his clear and accessible writing style to this latest edition

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 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 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 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 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 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 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 edited for clarity presentation layout readability modifications of artwork and new and challenging end of chapter questions

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based on discussions with instructors from many institutions i have learned that most instructors want a broad textbook that clearly explains concepts in a way that is interesting accurate concise and up to date concepts of genetics has been written to achieve these goals it is intended for students who want to gain a conceptual grasp of the various fields of genetics the content reflects current trends in genetics and the pedagogy is based on educational

research in particular a large amount of formative assessment is woven into the content as an author researcher and teacher i want a textbook that gets students actively involved in learning genetics

presents an experimental approach to understanding genetics by weaving one or two experiments into the narrative of each chapter this title helps students to simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments

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 students can simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments the pedagogy of genetics analysis principles has been designed to foster student learning instead of being a collection of facts and figures this text is intended to be an engaging and motivating textbook in which formative assessment allows students to move ahead and learn the material in a productive way

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