



Concepts of Genetics (WCB Cell & Molecular Biology)

By Robert Brooker

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Concepts of Genetics is a one semester introductory genetics text 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 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 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 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 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 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.

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Editorial Review

About the Author

Rob Brooker (Ph.D., Yale University) received his B.A. in biology at Wittenberg University, Springfield, Ohio, in 1978. At Harvard, he studied lactose permease, the product of the lacY gene of the lac operon. He continues working on transporters at the University of Minnesota, where he is a Professor in the Department of Genetics, Cell Biology, and Development and has an active research laboratory. At the University of Minnesota, Dr. Brooker teaches undergraduate courses in biology, genetics, and cell biology. In addition to many other publications, he has written two undergraduate genetics texts published by McGraw-Hill: Genetics: Analysis & Principles, 4th edition, copyright 2012, and Concepts of Genetics, copyright 2012.

Users Review

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