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Nota di contenuto	Mendelian Inheritance Simulation -- Polymerase Chain Reaction -- Animal Genetics -- Gene Expression -- Gene Regulation.
Sommario/riassunto	This textbook helps you to prepare for both your next exams and practical courses by combining theory with virtual lab simulations. With the "Labster Virtual Lab Experiments" book series you have the unique opportunity to apply your newly acquired knowledge in an interactive learning game that simulates common laboratory experiments. Try out different techniques and work with machines that you otherwise wouldn't have access to. In this volume on "Basic Genetics" you will learn how to work in a laboratory with genetic background and the fundamental theoretical concepts of the following topics: Mendelian Inheritance Polymerase Chain Reaction Animal Genetics Gene Expression Gene Regulation In each chapter, you will be introduced to

the basic knowledge as well as one virtual lab simulation with a true-to-life challenge. Following a theory section, you will be able to play the corresponding simulation. Each simulation includes quiz questions to reinforce your understanding of the covered topics. 3D animations will show you molecular processes not otherwise visible to the human eye. If you have purchased a printed copy of this book, you get free access to five simulations for the duration of six months. If you're using the e-book version, you can sign up and buy access to the simulations at www.labster.com/springer. If you like this book, try out other topics in this series, including "Basic Biology", "Basic Biochemistry", and "Genetics of Human Diseases". About Labster Labster is a company dedicated to developing Virtual Lab simulations that are designed to stimulate students' natural curiosity and highlight the connection between science and the real world. Labster has more than 70 Virtual Lab simulations, each covering important science topics. These simulations have been shown to improve learning outcomes among students, by making the learning experience more immersive and engaging. The content of this book was created by the Labster team members Sarah Stauffer, Aaron Gardner, Wilko Duprez, Dewi Ayu Kencana Ungu, Philip Wismer and Silvia Tjong. You can learn more about Labster and explore the simulations at www.labster.com.
