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Nota di contenuto	Monogenic Disorders -- Cytogenetics -- Medical Genetics -- Viral Gene Therapy.
Sommario/riassunto	This textbook helps you to prepare for your next exams and practical courses by combining theory with virtual lab simulations. The “Labster Virtual Lab Experiments” series gives you a unique opportunity to apply your newly acquired knowledge in a learning game that simulates exciting laboratory experiments. Try out different techniques and work with machines that you otherwise wouldn't have access to. In this book, you'll learn the fundamental concepts of the genetics of human diseases focusing on: Monogenic Disorders - Cytogenetics - Medical Genetics - Viral Gene Therapy In each chapter, you'll be introduced to one virtual lab simulation and a true-to-life challenge. Following a

theory section, you'll be able to play the relevant simulation that 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 Genetics", and "Basic Biochemistry". 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. These simulations have been shown to improve the achievement of 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 Dr. Aaron Gardner, Dr. Sarah Stauffer, Dr. Lindsay Petley-Ragan, Philip Wismer, Dewi Ayu Kencana Ungu and Silvia Tjong. You can learn more about Labster and explore the simulations at www.labster.com.
