

# Mastering Biology Virtual Genetics Lab Answers

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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 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 please note that the simulations included in the book are not virtual reality vr but 2d virtual experiments

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this comparative concepts based text provides an introduction to biology it features expanded coverage of evolution new chapters on biomes and the origins and diversity of life a unit on behaviour and ecology which includes coverage of ecosystems essays on bioethnic connections which discuss ethical questions arising due to improved biotechnology and a discussion of chemistry

this text explains the key biochemical and cell biological principles behind some of today's most commonly used applications of molecular genetics using clear terms and well illustrated flow schemes the book is divided into several sections and moves from basic to advanced topics while providing a concise overview of fundamental concepts in modern biotechnology each chapter concludes with a laboratory practicum describing a hypothetical research objective and the sequence of steps that are most often used to investigate biological questions using molecular genetic methods in addition the book provides informative summaries of the latest advances in molecular genetics using attractive illustrations and a comprehensive reference list this text also introduces the use of internet resources through the world wide web as a powerful new tool in molecular genetic research seven appendices are included in the book providing a convenient information resource for properties of nucleic acids protein and restriction enzymes a description of common e. coli genetic markers and gel electrophoresis parameters as well as

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