

# Population Biology Virtual Lab Answer

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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 will 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 are using the e book version you can sign up and buy access to the simulations at [labster.com/springer](http://labster.com/springer) if you like this book try out other topics in this series including basic biology basic genetics and basic biochemistry

virtual biology laboratory vbl is a series of 30 exercises organized into 10 modules these online laboratory simulations enable students to make comparative observations set up experiments acquire data and draw conclusions on a variety of topics each exercise is accompanied by suggested activities a worksheet a self test for each exercise and module and an instructor's answer key this set of on line laboratory experiments is designed within a simulation format to enable students to actually "do" science by acquiring data performing experiments and using that data to explain biological concepts or phenomenon students can do all this while working from their school's computer lab dorm room desk top or home computer instructors can use the virtual lab experiments to supplement the experience of a "wet" lab and to introduce biology students to the same techniques and equipment currently being used in many research laboratories online labs allow students to "use" expensive or otherwise unavailable laboratory equipment or supplies vbl is also available via webtutor where follow up questions for each exercise and module are submittable to the blackboard or the webct system this allows instructors to evaluate the student's understanding of the lab they have completed vbl does not need to be purchased in addition to blackboard or webct buying just the blackboard version or the webct version provides access to all the modules and their content there is no price difference to add webct or blackboard to see descriptions and or demos of the 10 modules visit [brookscole.com/biology/d/vbl](http://brookscole.com/biology/d/vbl) visit the link to see the genetics module in webct [thomsondemo.webct.com/public/0534464955demo/index.html](http://thomsondemo.webct.com/public/0534464955demo/index.html) this breakthrough combination of current technology and traditional laboratory is a "virtual" experiment that can serve as either an alternative

or a supplement to the traditional wet laboratory

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