

Activity A:**Caterpillar-resistant corn**Get the Gizmo ready:

- Click **Reset** (↺) and check that **Task 1** is selected in the dropdown menu.



Introduction: Lepidoptera sp. larvae (caterpillars) eat corn kernels, leaves, and stalks. In this activity, use genetic engineering techniques to create a corn plant that is resistant to caterpillars.

Question: How can we produce corn that is resistant to Lepidoptera sp. larvae?

1. **Observe:** Click **Play**. Select one of the strains of bacteria harmful to larvae (by clicking on the plate).

Which strain did you select? _____

2 and 4 additional strains were too severely impacted and perished.

2. **Investigate:** Click **Continue**. The screen now shows the **genome**, or set of genes, of the selected bacteria. One of these genes produces the protein that kills the caterpillars. You will test each gene by adding it to the genome of a bacteria that does not kill caterpillars. This process is called **transformation**.

Drag three genes into the Petri dishes at lower right. These genes are now inserted into the genomes of the sensitive bacteria in the plates. Press **Play**. If none of those genes help to kill the caterpillars, click **Reset** and try three other genes. When you find a gene that kills the caterpillars, click on the Petri dish to select the gene that confers resistance.

Which gene did you select? _____

Gene F

In reality, finding a gene with a desired trait is much less common. Scientists search through many more bacterial strains and potential genes to find the traits they are looking for.

3. **Observe:** Click **Continue**. **Promoters** are regions of DNA that initiate the **transcription** of a gene. Some promoters only work in specific types of cells, such as leaf cells or root cells.

To determine which cells of a corn plant a promoter works in, four promoters have been attached to the **Green Fluorescent Protein** (GFP) gene. Each promoter-GFP gene has been inserted into a corn plant. Select **Lights off** to see the parts of each plant glow green and fill in the table below.

Promoter	Glowing plant part(s)	Promoter	Glowing plant part(s)
1	Roots and leaves	3	Roots
2	leaves	4	leaves

Which promoter is active in only the leaves?

1 and 3

In the whole plant?

1

Genetic Engineering Pearson Answer Key

Padhraic Smyth



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The Pearson Complete Guide For The Cat Sinha Nishit K,2011-09 *Plant Nutrition — from Genetic Engineering to Field Practice* J. Barrow,2012-12-06 Plant Nutrition From Genetic Engineering to Field Practice the 12th International Colloquium on Plant Nutrition is the latest in a series which began in 1954 Early meetings were mainly concerned with the practical problems of soil fertility with soil assessment fertilizer requirements and methods of analysis As the colloquia have progressed the emphasis has slowly changed The practical problems are still important but there is increasing emphasis on plant physiology plant biochemistry membrane biochemistry and even on the chemistry of genes which control the proteins which transfer nutrient ions to the inside of cells The meetings therefore provide a valuable opportunity for each half of the science of plant nutrition to interact with and learn from the other half This volume begins with five papers which review current knowledge in important fields the rhizosphere molecular biology electron microscopy location and function of elements in vivo and modelling nutrient responses in the field These themes are continued in groups of shorter papers which follow In addition there are sections on nutrient dynamics and partitioning diagnostic techniques plant survival strategies mycorrhizas and on nutrients such as P N S K Ca Mg and micronutrients A large section is devoted specifically to boron reflecting the considerable current interest in this element In total there are 177 refereed papers providing both a broad overview and a detailed picture of the latest developments in pure and applied plant nutrition Genetic Engineering News ,2006 *The Pearson CSAT Manual 2012* Edgar Thorpe,2012 **Think Sociology** John Carl,Sarah Baker,Brady Robards,John Scott,Wendy Hillman,Geoffrey Lawrence,2011-08-16 THINK Currency THINK Issues THINK Relevancy THINK Sociology With an engaging visual design and just 15 chapters THINK Sociology is the Australian Sociology text your students will want to read This text thinks their thoughts speaks their language grapples with the current day problems they face and grounds sociology in real world experiences THINK Sociology is informed with the latest research and the most contemporary examples allowing you to bring current events directly into your unit with little additional work *Genetic Engineering & Biotechnology News* ,2008 **Campbell Biology Australian and New Zealand Edition** Jane B. Reece,Noel Meyers,Lisa A. Urry,Michael L. Cain,Steven A. Wasserman,Peter V. Minorsky,2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world s leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an

increased focus on evolution ensures students receive the most up to date accurate and relevant information

Governance of Human Gene Editing and Transhumanism LÍlian Santos, 2025-01-09 Are there any commonalities between Transhumanism and the WHO framework for global governance of human genome editing If yes what are they and what are the implications for Bioethics To find possible common themes the author applied the reflective thematic analysis RTA method to a set of texts on Transhumanism and a set of texts on the global governance of human genome editing The selected transhumanist texts were the three documents Humanity the former World Transhumanist Association calls the original documents on Transhumanism The Transhumanist Declaration Transhumanist FAQ 3 0 The Transhumanist Manifesto v 4 The selected texts to represent the global governance of human genome editing were the three documents published by WHO on the topic in 2021 the only plan for the global governance of this biotechnology to date Human genome editing a framework for governance Human genome editing recommendations Human genome editing position paper As a result of the application of the RTA method to the selected texts the author presents and explains three common themes What does this mean for our society What are the implications of the current situation What are the tasks for Bioethics There are emerging questions on the human condition and new concerns to be addressed by Bioethics such as the do it yourself mentality The limitations of therapy vs enhancement ask for serious work on a better bioethical paradigm This book analyses the object intentions and circumstances of enhancement in general and recommends the principle of proportionality The author questions the predominant values and propose a refinement to some conceptions of autonomy protection and equality Finally this book offers key elements for the bioethical evaluation of each type of human genome editing Recognising the current situation and working on the identified tasks has become crucial for contemporary Bioethics

Biosafety of Forest Transgenic Trees Cristina Vettori, Fernando Gallardo, Hely Häggman, Vassiliki Kazana, Fabio Migliacci, Gilles Pilate, Matthias Fladung, 2016-02-20 This book provides up to date information on the environmental impact of transgenic trees on genetically modified tree GMT communication strategy It is useful to public private organisations as well as to private and public research bodies and universities worldwide since it reports on the global status of GMT research and policy A high number of genetically modified trees GMTs with altered or novel characteristics have been produced in the last 15 years However their very low public acceptance is a basic problem in their commercialization Breeders anticipate economic and ecological benefits like reduced product costs and less pressure on native forests while opponents fear risks such as unintended spread of GMTs But what is true To answer this question the COST Action FP0905 focused on key aspects related to GMTs a biological characterization b assessment of possible environmental impacts c socio economic implications and public acceptance concerns d providing science based information to communicate with the public

Molecular and Quantitative Animal Genetics Hasan Khatib, 2015-03-02 Animal genetics is a foundational discipline in the fields of animal science animal breeding and veterinary sciences While genetics underpins the healthy development and breeding of all living

organisms this is especially true in domestic animals specifically with respect to breeding for key traits Molecular and Quantitative Animal Genetics is a new textbook that takes an innovative approach looking at both quantitative and molecular breeding approaches The book provides a comprehensive introduction to genetic principles and their applications in animal breeding This text provides a useful overview for those new to the field of animal genetics and breeding covering a diverse array of topics ranging from population and quantitative genetics to epigenetics and biotechnology Molecular and Quantitative Animal Genetics will be an important and invaluable educational resource for undergraduate and graduate students and animal agriculture professionals Divided into six sections pairing fundamental principles with useful applications the book's comprehensive coverage will make it an ideal fit for students studying animal breeding and genetics at any level

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