



Name:

Date:

Student Exploration: Fast Plants® 1 – Growth and Genetics

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Note to teachers and students: The Fast Plants® Gizmo was created in collaboration with the Wisconsin Fast Plants Program of the University of Wisconsin-Madison. These lessons can be used independently or in conjunction with classroom Fast Plants experiments.

Vocabulary: allele, dominant allele, Fast Plants, gene, genetics, genotype, heterozygous, homozygous, offspring, phenotype, pollen, pollinate, Punnett square, recessive allele, trait

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What do plants need to survive?
2. How do plants reproduce?

Water and sunlight

Plants reproduce sexually through pollination, either self-pollinating or cross-pollinating.

Gizmo Warm-up

Several common vegetables, including Bok choy, napa cabbage, and turnips, are varieties of a plant called *Brassica rapa*. **Fast plants** are a rapid-cycling variety of *Brassica rapa* that was developed at the University of Wisconsin. These plants have short growing cycles and are ideal for classroom use. In the *Fast Plants® 1 – Growth and Genetics* Gizmo, you will learn about the life cycle and genetic traits of Fast Plants.

In the Gizmo, drag seed packet **A** to container 1 and seed packet **B** to container 2. Click **Play** (▶), and then **Pause** (⏸) after about 10 simulated days.



1. A plant's **traits** are its characteristics. Drag the **magnifying glass** over container 1. Describe the traits of these plants. What do plants need to survive?

Characteristics of container one includes 4 leaves in the bottom section that are mostly together in the same area of the plant and a small stem branching out from the left top of the plant.

22 1 Introduction To Plants Answer Key

Jianjun Gao



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Plant Peptide Hormones and Growth Factors Andreas Schaller, 2023-11-29 This book describes state of the art approaches for identification and functional characterization of plant peptide hormones and growth factors Chapters guide readers through protocols for computational identification of novel signaling peptides and phytocytokines analysis of post translational maturation events isolation of mature peptides from plant tissues peptide bioassays in vivo and in vitro analysis of peptide activity peptide receptor identification and interaction analysis and quantitative assessment of peptide ligand binding to cognate receptors Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Plant Peptide Hormones and Growth Factors aims to be a useful and practical guide to new researchers and experts looking to expand their technical know how

Jasmonic Acid Pathway in Plants Kenji Gomi, 2020-04-30 The plant hormone jasmonic acid JA and its derivative an amino acid conjugate of JA jasmonoyl isoleucine JA Ile are signaling compounds involved in the regulation of defense and development in plants The number of articles studying on JA has dramatically increased since the 1990s JA is recognized as a stress hormone that regulates the plant response to biotic stresses such as herbivore and pathogen attacks as well as abiotic stresses such as wounding and ultraviolet radiation Recent studies have remarkably progressed the understanding of the importance of JA in the life cycle of plants JA is directly involved in many physiological processes including stamen growth senescence and root growth JA regulates production of various metabolites such as phytoalexins and terpenoids Many regulatory proteins involved in JA signaling have been identified by screening for Arabidopsis mutants However much more remains to be learned about JA signaling in other plant species This Special Issue Jasmonic Acid Pathway in Plants contains 5 review and 15 research articles published by field experts These articles will help with understanding the crucial roles of JA in its response to the several environmental stresses and development in plants

Organelle Genetics in Plants Víctor Quesada, Pedro Robles, 2021-09-02 Chloroplasts in photosynthetic organisms and mitochondria in a vast majority of eukaryotes contain part of the genetic material of a eukaryotic cell The organisation and inheritance patterns of this organellar DNA are quite different to that of nuclear DNA Present day chloroplast and mitochondrial genomes contain only a few dozen genes Nevertheless these organelles harbor several thousand proteins the vast majority of them encoded by the nucleus As a result the expression of nuclear and organelle genomes has to be very precisely coordinated

Biology Burton S. Guttman, Johns W. Hopkins, 1999 This fresh new approach to general biology integrates new research in genetics ecology evolution and molecular biology through four unifying conceptual themes Concepts are covered when appropriate in sufficient but not overwhelming detail The process of scientific discovery is emphasized and active learning is promoted through problem solving exercises in every chapter

Polyphenols in Crops,

Medicinal and Wild Edible Plants Marian Brestic, Marek Zivcak, Marco Landi, 2020-12-02 This Special Issue Polyphenols in Crops Medicinal and Wild Edible Plants From Their Metabolism to Their Benefits for Human Health presents recent studies dealing with polyphenols isolated from different food sources in terms of nutraceutical ethnobotanical and pharmaceutical properties The most recent techniques of analyses were used e g high throughout metabolomics analyses as well as polyphenol based fingerprinting to generate metabolic markers The benefits of polyphenol extracts and isolated phenolic moieties related to human pathologies were also investigated

Salinity Tolerance in Plants Jose Antonio Hernández Cortés, 2019-06-12 Salt stress is one of the most damaging abiotic stresses because most crop plants are susceptible to salinity to different degrees According to the FAO about 800 million Has of land are affected by salinity worldwide Unfortunately this situation will worsen in the context of climate change where there will be an overall increase in temperature and a decrease in average annual rainfall worldwide This Special Issue presents different research works and reviews on the response of plants to salinity focused from different points of view physiological biochemical and molecular levels Although an important part of the studies on the response to salinity have been carried out with Arabidopsis plants the use of other species with agronomic interest is also notable including woody plants Most of the conducted studies in this Special Issue were focused on the identification and characterization of candidate genes for salt tolerance in higher plants This identification would provide valuable information about the molecular and genetic mechanisms involved in the salt tolerance response and it also supplies important resources to breeding programs for salt tolerance in plants

Mapping Abiotic Stress-Tolerance Genes in Plants Richard R.-C. Wang, 2020-12-02 This book presents the latest research results on plant genes controlling tolerance to abiotic stresses including heat cold drought salt nitrogen metals irradiation and exogenous phytohormones The authors report the expression profiles function roles in physiological pathways and chromosomal locations of tolerance genes The studies involve cytogenetics genomics proteomics and bioinformatics The information is critical for food security in an environment experiencing global climate changes Therefore this book provides a useful reference to students and professionals in plant sciences encompassing genetics physiology chemistry and breeding

DNA Methylation Mechanism ,2020-07-01 Simplicity is the ultimate sophistication Leonardo Da Vinci The methylation that occurs simply by attaching one or more methyl molecules to a DNA molecule continues to confuse the scientific world by creating highly complex molecular arrangements Research on methylation mechanisms have discovered that this simple biochemical event which adapts to the changing micro macro environment of the organism to diseases and even cancerous processes has shown that it is actually not as simple as it seems In the last 50 years our efforts to understand these mechanisms and use them to benefit human beings have continued With this book called DNA methylation mechanism in which we try to explain the effects on every stage of life we hope that we have been able to create a resource book for everyone interested in this field from students who are interested to amateurs and professionals

Proceedings of the 1992

American Control Conference ,1992 **Transgenic Organisms and Biosafety** Erwin R. Schmidt,Thomas Hankeln,2012-12-06 Gene biotechnology and the broad use of genetically modified organisms is rapidly developing into a commercial enterprise In spite of the pace of scientific progress in this field a partly emotional debate is still being carried on by the general public and on the part of the consumer about the potential risks linked to this new technology Especially when genetically modified organisms GMOs are tested in the open field the question of safety is controversially discussed among different groups in society Environmentalists are worried about unforeseeable dangers inherent in the release of a living organism assuming that special risks are linked to organisms which have been modified by molecular biologists using tools developed in the laboratory Frequently quoted potential hazards are the phenomena of gene escape and genetic pollution meaning the very interesting question of natural horizontal gene transfer This phenomenon of horizontal gene transfer is in fact well known to scientists studying prokaryotes Many prokaryotes are able to exchange DNA readily between individuals of different species or are even able to take up DNA from the extracellular environment by the process of genetic transformation which has already been known for more than 65 years For eukaryotes however the evidence of natural horizontal gene transfer is very limited **JSME International Journal** ,1990 *Physiology and Biochemistry of Cytokinins in Plants* Miroslav Kamínek,David W. S. Mok,Eva Zažímalová,1992 **Abiotic Stress Alleviation in Plants: Morpho-Physiological and Molecular Aspects** Diaa Abd El Moneim,Mehdi Rahimi,Mahmoud Magdy,Mohammad Golam Mostofa,2023-10-27 Plants are constantly exposed to changing environmental conditions Abiotic stresses cause adverse effects on plant growth development survival and yield It is essential to improve plant responses to such environmental conditions to achieve sustainable crop growth development and productivity The activation of plant stress signaling mechanisms is crucial to address the adverse impacts of environmental factors on plant growth and productivity Phytoprotectants including signaling molecules play crucial roles in the activation of plant physiological and molecular mechanisms to withstand the negative effects of abiotic stress on plants Investigation of physiological biochemical and metabolic pathways associated with plant adaptation to abiotic stress will help identify the key players involved in plant abiotic stress tolerance mechanisms The sensing signaling and gene regulatory mechanisms that help plants cope with abiotic stress must be fully explored *Proceedings* Chicago (Ill.). Board of Education,1886 **Agronomie** ,2004 The Cultivator & Country Gentleman ,1885 **Guide to Chemical Plant Planning, 1969** Robert Lobstein,1969 *Control Engineering* ,1982 Instrumentation and automatic control systems Plant Physiology ,1961 The Athenaeum ,1879

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