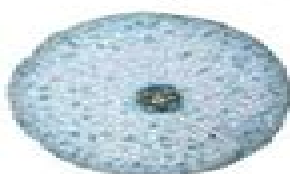


Understand Key Concepts

17. Which fill(s) the space between spongy mesophyll cells?
 A. chlorophyll
 B. gases
 C. cells
 D. vascular tissue
18. Which image shows a eudicot stem?



A.



B.



C.



D.

19. Which image above shows one ring of vascular bundles?
 A. A
 B. B
 C. C
 D. D
20. Which plant structure is not part of a root?
 A. endodermis
 B. root cap
 C. pericycle
 D. stomata
21. Which control(s) the movement of water vapor through the stomata?
 A. bark
 B. pericycle
 C. guard cells
 D. vascular tissues

Constructed Response

22. **Open Ended** List some environmental factors that might affect transpiration.
23. **Short Answer** Describe the control of materials as they are transported from soil to a root's vascular tissue.

Think Critically

24. **Evaluate** some leaf modifications in terms of their functions.
25. **Summarize** the reasons why eudicot stems can have a greater increase in diameter than most monocot stems.

Section 22.3

Vocabulary Review

Explain the difference between the terms in each pair below. Then explain how they are related.

26. hormone, auxin
 27. ethylene, gibberellins
 28. tropic response, nastic response

Understand Key Concepts

Use these photos to answer questions 29 and 30.



29. What plant condition do these photos show?
 A. apical dominance
 B. dwarfism
 C. leaf drop
 D. nastic movements
30. Which hormone controls this plant condition?
 A. auxin
 B. gibberellin
 C. ethylene
 D. cytokinin
31. Which describes a positive phototropism?
 A. The plant grows away from the light.
 B. The plant grows toward the light.
 C. The plant grows toward gravity.
 D. The plant grows away from gravity.
32. Which is involved in the transport of gibberellins throughout the plant?
 A. cork cambium
 B. guard cells
 C. vascular tissue
 D. apical meristem

Answers For Plant Structure

J Rink



Answers For Plant Structure:

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During the 1970s renewed interest in plant mechanical signaling led to the discovery that plants subjected to mechanical stimulation develop shorter and thicker axes than undisturbed plants a syndrome called thigmomorphogenesis Currently mechanosensing is being intensively studied because of its involvement in many physiological processes in plants and particularly in the control of plant morphogenesis From an ecological point of view the shaping of plant architecture has to be precisely organized in space to ensure light capture as well as mechanical stability In natural environments terrestrial plants are subjected to mechanical stimulation mainly due to wind but also due to precipitation while aquatic and marine plants are subjected to current and wave energy Plants acclimate to mechanically challenging environments by sensing mechanical stimulations and modifying their growth in length and diameter and their tissue properties to reduce potential for buckling or breakage From a morphogenetic point of view both external and internal mechanical cues play an important role in the control of cell division and meristem development likely by modulating microtubule orientation How mechanical stimulations are being sensed by plants is an area of intense research Different types of mechanosensors have been discovered or proposed including ion channels gated by membrane tension stretch activation and plasma membrane receptor like kinases that monitor the cell wall deformations Electrophysiologists have measured the conductances of some stretch activated channels and have showed that SAC of different structures can exhibit different conductances The role of these differences in conductance has not yet been established Once a mechanical stimulus has been perceived it must be converted into a biological signal that can lead to variations of plant phenotype Calcium has been shown to function as an early second messenger tightly linked with changes in cytosolic and apoplastic pH Transcriptional analyses of the effect of mechanical stimulation have revealed a considerable number of differentially expressed genes some of which appear to be specific to mechanical signal transduction These genes can thus serve as markers of mechanosensing for example in studies attempting to define signalling threshold or variations of mechanosensitivity accommodation Quantitative biomechanical studies have lead to a model of mechanoperception which links mechanical state and plant responses and provides an integrative tool to study the regulation of mechanosensing This model includes parameters sensitivity and threshold that can be estimated experimentally It has also been shown that plants

are desensitized when exposed to multiple mechanical signals as a function of their mechanical history Finally mechanosensing is also involved in osmoregulation or cell expansion The links between these different processes involving mechanical signalling need further investigation This frontier research topic provides an overview of the different aspects of mechanical signalling in plants spanning perception effects on plant growth and morphogenesis and broad ecological significance

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