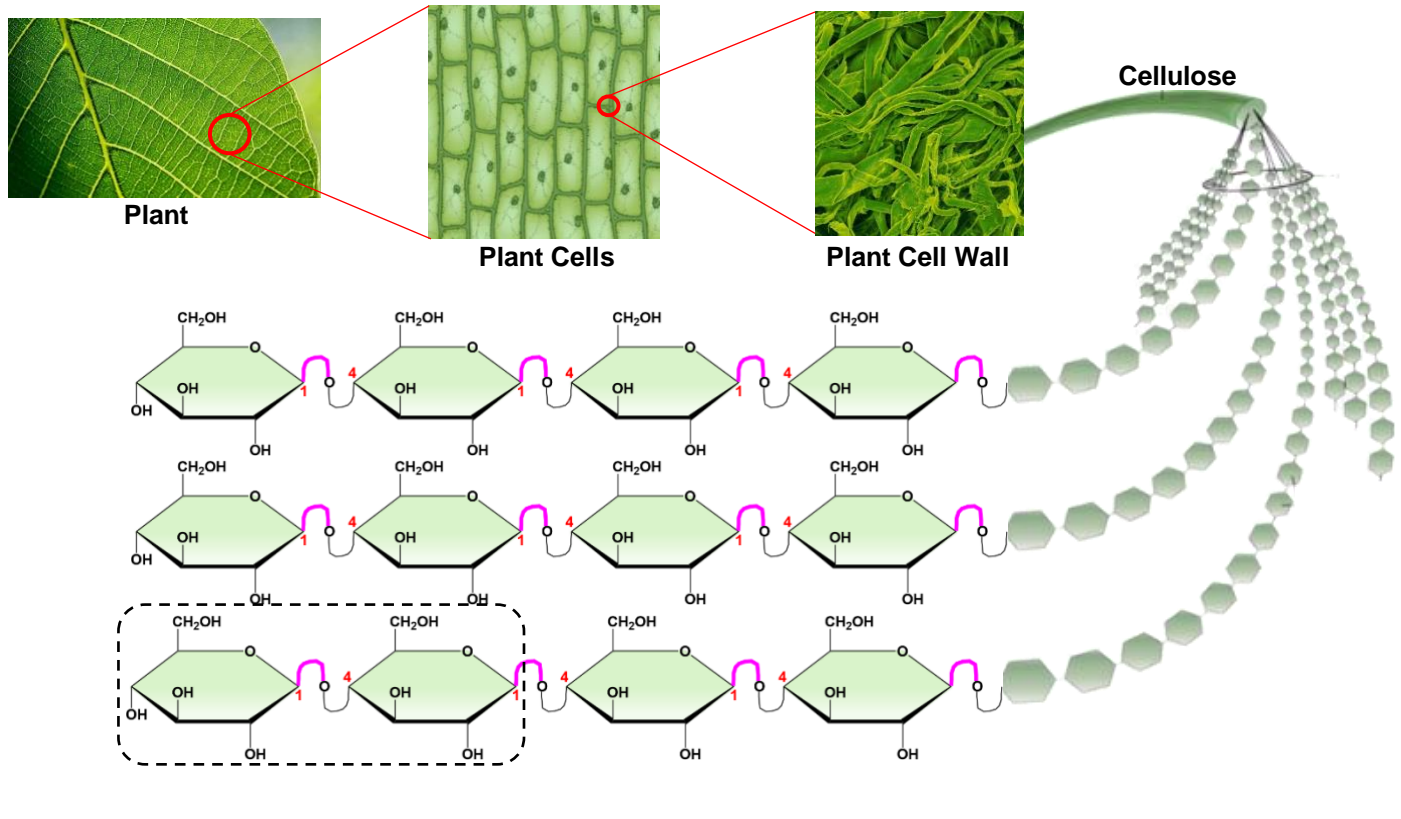


CONCEPT: CELLULOSE

Polysaccharide	Type	Repeating Sugar(s)	Glycosidic Linkage	Function	Organism	Branched?
Cellulose	_____	D-_____	_____-1,4	_____	_____	_____

□ Cellulose: *indigestible* to most animals due to lack of _____ enzyme that hydrolyzes ($\beta 1 \rightarrow 4$) linkages.



PRACTICE: Which statement about cellulose is true?

- a) It's a highly branched polysaccharide.
- b) It's the main storage polysaccharide in some strains of dogs.
- c) It cannot be digested by any animal.
- d) Its D-fructose residues have α configuration.
- e) It's a homopolysaccharide of D-glucoses.

PRACTICE: Cellulose is composed of which of the following monosaccharides covalently bonded together in a long chain?

- a) α -glucose.
- b) Amino acids.
- c) β -glucose.
- d) Cellobiose.
- e) Peptidoglycan.
- f) Chitin.

PRACTICE: Cellulose fibers most closely resemble _____ in proteins.

- a) α -helices.
- b) β -sheets
- c) β -turns.
- d) Coiled-coils.