

NYS Relationships and Biodiversity Adapted Lab

Botana curus is a valuable plant because it produces Curid, which is used as medicine to treat cancer. *Botana curus* grows very slowly. It is on the endangered species list, so its ability to provide Curid in large quantities is limited.

Three similar plant species (X, Y, and Z) may be related to *Botana curus*. These 3 plant species grow faster, and therefore plentiful. The plant that is the most similar to *Botana curus* might also produce Curid. You will work as a research team to determine which plant is most closely related to *Botana curus*. You can do this by studying the plants in different ways.

Structural Characterization

A. Leaves: Which leaves most closely resemble the leaves produced by *Botana curus*? How do you know?

B. Seeds: Which seeds most closely resemble the seeds produced by *Botana curus*? How do you know?

C. Stem Cross Section: Which stem structures most closely resemble the stem structures of *Botana curus*? How do you know? (some are circular, others are rectangular)

	<i>Botana curus</i>	Species X	Species Y	Species Z
Observation Stem Cross Section				

Molecular Characterization

D. Presence of Enzyme M: Use the indicator to determine which species has enzyme M.

	<i>Botana curus</i>	Species X	Species Y	Species Z
Observation (do you see bubbles?)				

Which reaction for Enzyme M is most similar to *Botana curus*? Explain.



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Yijin Wang



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