

Case Study – Tougher plants: Beating stress by protecting photosynthesis in genetically modified plants

Part I - Stress

1. What are the major stresses that agricultural plants face? Major stresses that agricultural plants face include frost in the winter, heat in the summer, and salt from irrigation evaporation.

Part II – Glycine Betaine

2. a.) In figure 2 below, what does wild type mean? Wild type means that the plant is unmodified.
b.) How is L1 different from wild type? In figure 2, the wild type is represented by the normal tomato plant and L1 is the mutated form of the wild type.
3. What does glycine betaine do for the leaves, flowers, and fruits in cold-exposed plants? Glycine Betaine protects plants from chilling temperatures. It seems as though that the genetically modified plants with glycine betaine appear to be healthier.

Part III – Photosynthesis

4. What is the X-axis measuring? Days after cold treatment
5. What is the Y-axis measuring? Ion leakage (%)
6. What does WT mean? Wild Type
7. What are L1 and L5? They are transgenic plants
8. Which photosynthesis process is most affected by the ion leakage?
 - a. Whether the cells can capture light
 - b. Whether the Calvin cycle will function
 - c. Whether ATP synthase will function
 - d. Whether electrons will transfer from photosystem II
9. What trends can you observe in the graph? List at least two.
 - As the days go by, ion leakage increases.
 - Transgenic plants show less ion leakage than the wild type plants.

Part IV – Heat Tolerance

10. What is the X-axis measuring? Temperature of treatment (°C)
11. What is the Y-axis measuring? Oxygen-producing activity of the PSII
12. What are the two types of plants studied in this experiment? Wild Type and genetically modified tobacco plants
13. Which process in photosynthesis produces oxygen? PSII activity
14. What trends can you observe in the graph? List at least two.
 - The increase in temperature leads to a decrease in oxygen production.

Tougher Plants Case Study Answers

Zhe Xu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Zhe Xu.

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