

BIOLOGY 3024
PLANT PHYSIOLOGY
MALATE DEHYDROGENASE REPORT

Your mission for the MDH report is to write (MUST BE TYPED) a paper that will be evaluated as a potential publication. You will be graded on your ability to provide a convincing research discovery that is a significant contribution to the scientific literature. The format is as follows:

Title
Abstract
Introduction
Materials and Methods
Results and Discussion
Conclusions
References

Your Assignment: A CONVINCING PHYSIOLOGICAL MECHANISM

As a part of the creative component of your report, you will be required to devise a unique physiological mechanism relating MDH deficiency to chlorophyll abnormalities. You might want to pay close attention to the precursors of chlorophyll (i.e., glutamate via α -ketoglutarate) and how they may be inhibited or retarded by decreased MDH activity in mitochondria.

When you write your report, use evidence from our laboratory results, the literature, and your own intuition to come up with a physiological mechanism.

Your report will be graded on the basis of the accuracy and completeness of your mechanism, creativity, and scientific writing ability.