

Selective Induction of Glutathione S-Transferase Subunits in Wheat Plants Exposed to the Herbicide Acifluorfen

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Exposure to the herbicide acifluorfen resulted in marked increase of glutathione S-transferase (GST) enzyme activity in wheat seedlings, primarily in shoot tissues. From the six major, constitutively expressed GST subunits found in untreated wheat shoots subunits 2 and 3 were selectively induced by acifluorfen. No new subunit could be detected. The induced subunits belong to those GST isoenzymes, which metabolize diphenyl ether herbicides.