



# Agricultural Journals

*Czech Journal of*

**FOOD SCIENCE**

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# **Czech J. Food Sci.**

**Jaleel C.A., Gopi R.,  
Panneerselvam R.:**

# **Biochemical alterations in white yam (*Dioscorea rotundata* Poir.) under triazole fungicides: impacts on tuber quality .**

Czech J. Food Sci., 26 (2008): 298-307

An investigation was conducted to find out the effects of two triazole fungicides (triadimefon (TDM) and hexaconazole (HEX) – 15 and 10 mg/l per plant, respectively) on the biochemical constituents and tuber quality of white yam (*Dioscorea rotundata* Poir.). The exposure of white yam plants to the fungicides showed increased chlorophyll, carotenoids, xanthophylls, and anthocyanin contents and altered the membrane integrity in terms of electrolyte leakage and lipid peroxidation. The triazole treatments enhanced the accumulation of proline and total phenols in tubers. The visible symptoms of fungicides appeared as thickening and

darkening of leaves. Both the triazoles increased the antioxidants (ascorbic acid reduced glutathione, and tocopherol) contents. The data suggests that, apart from their fungicidal properties, the