**Temperature stress-induced biochemical changes in pearl millet** [***Pennisetum glaucum* (L.) R. Br] genotypes at the seedling** **stage**

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**Abstract**

The biochemical and physiological changes due to high temperature were observed in twelve genotypes of pearl millet (*Pennisetum glaucum* (L.) R. Br.). The 20 days old seedlings were exposed at 40°C for 6 hrs, 44°C for 4 hrs and 46°C for 2 hrs in BOD incubator. Data on chlorophyll content, activity of antioxidative enzymes and MSI were recorded after two days of treatment. The genotypes HTP94/54, J-2588 and PPMI 1263 performed better having high activity of antioxidative enzymes. These genotypes can be used for breeding programmes to develop high temperature stress tolerance.

**Key words:** RWC, MSI, chlorophyll, SOD and CAT