

# Research Article

## Physiological and Biochemical Changes during drought stress

Tamilselvi et al.,

### **Abstract:**

Drought is the major abiotic stress due to unseasonal and inadequate rainfall. This causes a major loss in agricultural production. The drought may be induced by withholding irrigation under field condition or by PEG under laboratory condition. Drought leads to various morphological changes like shoot length, root length, root architecture, germination percentage, total dry matter production and various yield parameters. It also affects physiological and biochemical parameters *viz.*, Relative Water Content, Chlorophyll Stability Index, Total protein content, Total proline content, Total chlorophyll content, Gaseous parameters and Antioxidant enzymes. The ROS, MDA production affects the biosynthesis of lipids and nucleic acids. This review enumerates the changes during drought stress in various plants.

**Keywords:** Drought stress, Growth parameters, Physiological and Biochemical parameters.