

A Study on the Vegetative and Osmolyte Accumulation of Capsicum frutescens L. under Zinc Metal Stress

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Abstract : Plant growth, biochemical parameters, zinc metal concentrations were determined for Capsicum frutescens L. in response to varied concentration of zinc metal. The plant exhibited a decline in the vegetative parameters measured. Free proline and glycine betaine content increases with increasing concentration of zinc metal and differ significantly ($P < 0.05$). It can be concluded that the osmolyte (pro and GB) accumulations, and high length of stem and wide leaf expansion are possible indicator of tolerance to heavy metals (Zinc) in Capsicum frutescens.

Keywords : zinc metal, osmolyte, Capsicum frutescens, stress

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