Physiological studies on the effect of sterols on some metabolites of salt stressed ***Solanum nigrum*** and ***Solanum incanium***

Abstract:

The application of stigmasterol led to significant differences between responses of antioxidant defense enzymes in test plant growing under different concentrations of NaCl. Production of glutathione, ascorbat and flavonoids in ***Solanum nigrum*** seedlings were retarded more prominently at high level of salinity.
Presoaking ***Solanum nigrum*** seeds in stigmasterol has a generally a favorable effect on flavonoids, ascorbate and unaffected glutathione in the salinized seedlings.

Keywords: ***Solanum nigrum,*** cholesterol, stigmasterol.

Abbreviations: Chol, cholesterol - Stigm, stigmasterol - ROS, reactive oxygen species - SOD, superoxide dismutase - CAT, catalase - POX, peroxidase - APX, ascorbate peroxidase - GR, glutathione reductase - GSH, glutathione - ASA, ascorbate.