Evaluation of alfalfa (Medicago sativa) lines to salinity tolerance

*M. sativa* lines: An attempt to study the performance of 40 lines of alfalfa (Medicago sativa) under salinity stress by evaluating their yield and quality parameters.

Yielding parameters included dry matter production, protein content, and total carbohydrate content in roots and shoots. The following parameters were measured: enzyme activities, lipid peroxidation, and antioxidant capacity.

The results showed that the lines varied significantly in their response to salinity stress, with some lines showing higher yields and better quality under saline conditions than others.

Conclusions:
- Selection for lines with higher yield and better quality under saline conditions is important for sustainable agriculture.
- Further research is needed to identify genetic markers associated with salinity tolerance in alfalfa.