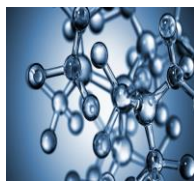


Foliar Application of Potassium and Salicylic Acid Improved Nitrogen Metabolism, Ion Uptake, Growth and Yield of Divergent Rice Cultivars under Salinity Stress

Maria Nawaz

Department of Botany, University of Sargodha, Sargodha 40100, Pakistan



Abstract:

Salinity stress adversely affected the growth, productivity and yield of rice from last few decades. Here, in this study the ameliorative role of exogenous spray of potassium (K) and salicylic acid (SA) have been investigated against salinity stress in rice. Four rice varieties (Kashmir Basmati, Basmati-370, Super-Basmati and Basmati-515) were exposed to NaCl stress (0, 100 mM) and sprayed with SA (0.02 %), K (0.1 %) and their combination (SA+K) at vegetative and flowering stages. Salinity stress caused reduction in morpho-physiological attributes (fresh/dry weight per plant, leaf area, chlorophyll contents (a, b and total), stomatal conductance and relative water contents. Moreover, the salt induced oxidative stress was confirmed by remarkable changes in plant metabolism (total soluble sugars, nitrate, nitrite reductase, proline), plant ionic relations (sodium, potassium, calcium, magnesium, phosphorus ions) and plant yield (number of tillers per plant, number of panicles per plant, harvest index and seed yield per plant).



Biography : Maria Nawaz has studied in Department of Botany University of Sargodha, Sargodha, Pakistan and he has worked on some field which is related to plants. He held a workshop which named Foliar Application of Potassium and Salicylic Acid Improved Nitrogen Metabolism, Ion Uptake, Growth and Yield of Divergent Rice Cultivars under Salinity Stress.

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Abstract Citation: [Danial Khayatan, The effects of Raspberry stem cells as an antioxidant in UVB-induced damaged ,Plant Science Congress 2020 , 7th Annual Congress on Plant Science and Molecular Biology, Auckland, New Zealand, May 18-19, 2020 pp: 0-1](#)