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Effects of Salt Stress of the Respiratory Components of Some Plants

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Keywords

Abstract: Oxygen absorption, kinetic regularities of free radical oxidation and anti-oxidation activity were studied in roots and isolated mitochondria for various groups of plants under salt stress of NaCl, Na 2 SO 4 and Na 2 CO 3. The results show that spearation of oxidation and phosphorylation obviously stimulates the oxygen absorption by plants under salt strees. Therefore, the anti-oxidation activity of roots decreases abruptly, resulting in an uncontrolled acceleration of free radical processes. The obtained data is a definite contribution to the concept concerning the toxic effect of salt on plants.



Key Words: Salt stress, oxidation, antioxidants, luminescence

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