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Ion micro-distribution in varying aged leaves in salt-treated cucumber seedlings

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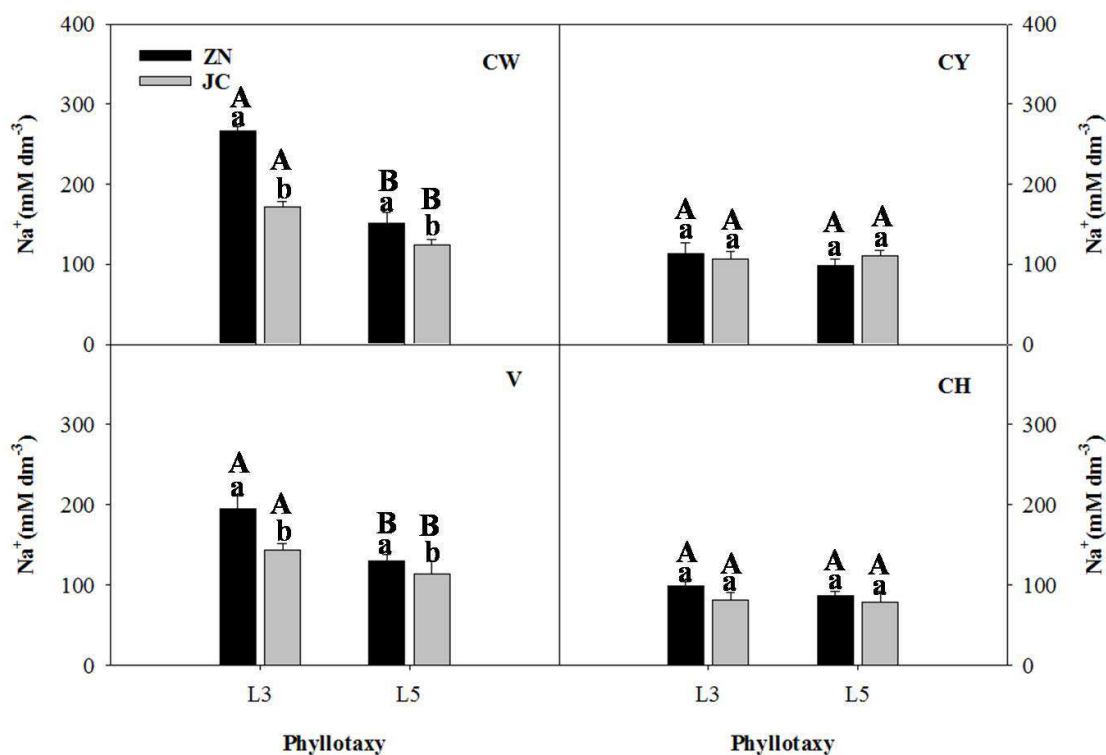
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In our experiment on salt stress, the cytoplasm and chloroplasts accumulated similar Na^+ concentration in leaves of different ages, in two cucumber cultivars differing in salt tolerance. This weak sub-cellular ion distribution ability may be an important reason for cucumber being vulnerable to salt stress.



The effect of salt stress on subcellular Na^+ distribution in different aged leaves in the two cucumber cultivars seedlings. (Means \pm SE, $n=3$) CV (Cell Wall), V (Vacuole), CY (Cytoplasm), CH (Chloroplast). L3: function leaf; L5: new leaf. a, b: comparison of significant difference between the same age leaves; A, B: comparison of significant difference between the different aged leaves.

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