

Interelement correlations in the mangrove, *Rhizophora mangle* L.

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Abstract

Assuming linear relationships between elements, some significant interelement relationships were detected in *Rhizophora mangle* grown over a salinity gradient. Sodium (Na) had a clear antagonistic effect on the uptake of potassium (K), whereas the uptake of chromium (Cr) and arsenic (As) seemed to be stimulated by sodium ions. A positive relationship between leaf carbon content and sodium concentration was also found. A significant negative correlation was found between the chemically related two elements, rubidium (Rb) and caesium (Cs). Owing to the competition with the absorption of K^+ and NH_4^+ a negative relationship between nitrogen (N) and potassium (K) was found.