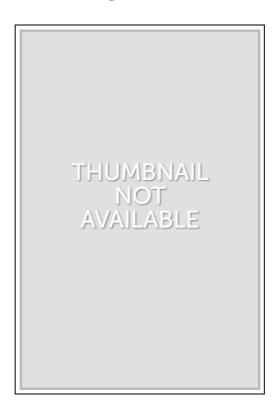
Effects of salt stress on ecophysiological and molecular characteristics of Populus euphratica Oliv., Populus x canescens (Aiton) Sm. and Arabidopsis thaliana L.



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Reviews

This publication is indeed gripping and intriguing. It is actually writter in basic terms and not difficult to understand. I am just pleased to explain how here is the greatest publication we have read through during my own lifestyle and could be he best pdf for at any time. (Ervin Crona)

EFFECTS OF SALT STRESS ON ECOPHYSIOLOGICAL AND MOLECULAR CHARACTERISTICS OF POPULUS EUPHRATICA OLIV., POPULUS X CANESCENS (AITON) SM. AND ARABIDOPSIS THALIANA L.



Cuvillier Verlag Sep 2015, 2015. Taschenbuch. Book Condition: Neu. 211x146x17 mm. Neuware - Salt tolerance is a complex trait that involves biochemical, physiological andmorphological modifications that are regulated at the molecular level. The aim of this workwas to understand the effects of salinity on P. euphratica, a salt tolerant species. For thispurpose ecophysiological and molecular methods were applied and necessary comparisonswere conducted with P. x canescens, a salt sensitive species or A. thaliana, the model plantfor herbaceous species. The present work shows that P. euphratica under salinity is able to protect its plasma membrane and maintaine quantum yield efficiency of PSII.Molecular analysis showed that the expression levels of two genes were increased inresponse to salinity (TIL and SIS) in both P. euphratica (PeuTIL) and P. x canescens(PcaTIL). These genes were characterized to study their functions with respect to salttolerance. In both root and leaf, PeuTIL was up-regulated after salt stress and decreased to the control level within few hours. Comparison of PeuTIL and PcaTIL showed that the transcript level of TIL in P. euphratica was significantly higher than that of its homolog in P. xcanescens both under control conditions and salt stress. It has also been found that theexpression of PeuTIL in leaves was considerably higher than in roots. In silico analysis ofPeuTIL revealed evidence for a transmembrane segment. The homolog segment in AthTILexhibited lower hydrophobicity than that of PeuTIL and PcaTIL, respectively.To obtain evidence for factors controlling gene expression of TILs, the upstreamregions of AthTIL and PtrTIL were searched for cis-acting elements and the results were compared. Elements related to ABA signalling, early response to dehydration, endospermspecific expression (DOF-binding site) and seed storage regulation were common and highly present in the upstream regions of both genes. ABA signalling and early response todehydration elements were more frequently present in th

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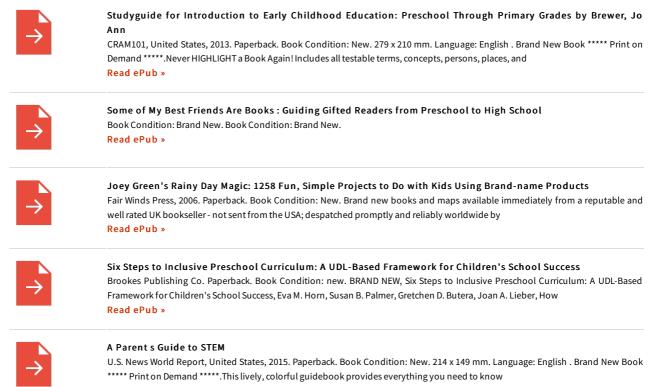
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