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



Filesize: 9.69 MB

Reviews

Complete manual! Its such a great study. It really is writter in straightforward phrases rather than hard to understand. You are going to like the way the article writer create this publication.

(Ike Fadel)

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



To download Effects of salt stress on ecophysiological and molecular characteristics of Populus euphratica Oliv., Populus x canescens (Aiton) Sm. and Arabidopsis thaliana L. PDF, make sure you refer to the button beneath and save the file or have accessibility to other information which might be relevant to EFFECTS OF SALT STRESS ON ECOPHYSIOLOGICAL AND MOLECULAR CHARACTERISTICS OF POPULUS EUPHRATICA OLIV., POPULUS X CANESCENS (AITON) SM. AND ARABIDOPSIS THALIANA L. ebook.

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 upregulated 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 werecompared. 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 the

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

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

Other Books



[PDF] Games with Books: 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade

Follow the link listed below to get "Games with Books: 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" PDF file.

Save PDF »



[PDF] Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade

Follow the link listed below to get "Games with Books: Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" PDF file.

Save PDF »



[PDF] The Frog Tells Her Side of the Story: Hey God, I m Having an Awful Vacation in Egypt Thanks to Moses! (Hardback)

Follow the link listed below to get "The Frog Tells Her Side of the Story: Hey God, I m Having an Awful Vacation in Egypt Thanks to Moses! (Hardback)" PDF file.

Save PDF »



[PDF] Short Stories 3 Year Old and His Cat and Christmas Holiday Short Story Dec 2015: Short Stories

Follow the link listed below to get "Short Stories 3 Year Old and His Cat and Christmas Holiday Short Story Dec 2015: Short Stories" PDF file.

Save PDF »



[PDF] On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback

Follow the link listed below to get "On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback" PDF file.

Save PDF »



[PDF] Found around the world : pay attention to safety(Chinese Edition)

Follow the link listed below to get "Found around the world: pay attention to safety(Chinese Edition)" PDF file.

Save PDF »