

**sucrose & starch synthesis - wou homepage** - sucrose & starch synthesis sucrose synthesized in the cytosol ... sucrose synthesis transport of sucrose. adp-glucose starch synthase (5-7) starch cytosol ...

**sucrose accumulation in sugarcane: a potential target for ...** - sucrose accumulation in sugarcane: a potential target for crop improvement ... support cleavage and re-synthesis as the sole sucrose transport mechanism.

**identification of the transporter responsible for sucrose ...** - sucrose accumulation in sugar beet taproots ... synthesis of most other ... identification of the transporter responsible for sucrose accumulation in sugar beet ...

**root lodging is a physical stress that changes gene ...** - changes gene expression from sucrose accumulation to degradation in sorghum ... or re-synthesis of sucrose. ... and sucrose transporter (sut) transport **expression**

**analysis of genes associated with sucrose ...** - pivotal role in synthesis, breakdown, and transport of ... associated with sucrose synthesis and accumulation is limited in sugarcane; nevertheless, ... **the regulation of sugar uptake and accumulation in bean ...** - sucrose synthesis occurred in the ... dence indicates that this component of the accumulation process involves active transport of sucrose against a concentration ... **the sorghum sweet gene family: stem sucrose accumulation ...** - stem sucrose accumulation as revealed through transcriptome profiling ... involved in sucrose accumulation of sorghum, ... transport sucrose, ... **sucrose metabolism and expression of key enzyme activities ...** - in sucrose accumulation in storage, parenchyma cells. earlier studies have suggested that sucrose ... to sucrose synthesis, transport and accumulation in **regulation of sucrose metabolism in higher plants ...** - end product of photosynthesis and functions as a primary transport sugar and in some ... sucrose synthesis of 0.3 to 0 ... occurs in response to sucrose accumulation **review metabolism and accumulation of sugars translocated ...** - membrane transport: ... the reaction of ssii inclines towards sucrose synthesis like susy of peach fruit. ... unshiu fruit corresponded to sucrose accumulation, but **sucrose accumulation in sweet sorghum stems occurs by ...** - sucrose accumulation in sweet sorghum ... by photoassimilates from their sites of synthesis to their ... of sucrose transport proteins for sucrose to traverse cell **divergent evolutionary pattern of sugar transporter genes ...** - in sugar accumulation between ... sucrose (suc) synthesis, metabolism and transport in plant cell. adp-glc: ... sucrose transporter; and b: sugar transport protein. **synthesis and intracellular transport of lectin and ...** - synthesis and intracellular transport of lectin ... from this vesicle fraction was accompanied by the accumulation of mature ... fractionated by sucrose density ... **gene expression of enzymes for starch and sucrose ...** - gene expression of enzymes for starch and sucrose metabolism and transport in leaf ... rapid accumulation of starch. the mrna levels of sucrose synthesis ... **tissue-specific transcriptome analysis within the maturing ...** - tissue specialization of carbohydrate transport and metabolism pathways that lead to sucrose accumulation or ... both sucrose accumulation and cell wall synthesis. **a medicago truncatula h -pyrophosphatase mtvp1, improves ...** - enhance sucrose transport to sink organs, ... sucrose accumulation and anthocyanin biosynthesis in potato ... synthesis in arabidopsis seedlings ... **accumulation of sucrose and other soluble solids in citrus ...** - as an energy source and as intermediates for the synthesis of ... given the accumulation of sucrose against a ... plasmalemma sucrose transport activity from ... **review article complexities of invertases controlling ...** - complexities of invertases controlling sucrose accumulation and ... sponsible for the synthesis and breakdown of sucrose ... as well as to aid sucrose transport ... **the plant journal 49 analysis of the sucrose synthase gene ...** - reduced accumulation of ... it may be involved in transport of sucrose across the tonoplast from ... and at ph 9.0-9.5 in the direction of sucrose synthesis ... **relationship between invertase enzyme activities and ...** - relationship between invertase enzyme activities and sucrose accumulation in ... the ability of sucrose synthesis and ... as well as to aid sucrose transport ... **transport and metabolism as sucrose analog ' - fluorosucrose ...** - into the endosperm where it was metabolized and used in synthesis of ... transport studies were performed under a ... accumulation of 4c in sucrose (0), hexose (a), ... **fructose transport, degradation and biosynthesis- fructose transport, ...** synthesis and is deposited as depot ... most persons affected by fructose intolerance tolerate sucrose because of the glut2 transport ... **effects of fluoride on respiration and photosynthesis in ...** - 044 citation: kumar k, giri a, vivek p, kalaiyarasan t, kumar b (2017) effects of fluoride on respiration and photosynthesis in plants: an overview. **sucrose efflux mediated by sweet proteins as a key step ...** - not known how sucrose migrates from sites of synthesis in ... identify proteins that can transport sucrose across ... the reversibility of sucrose accumulation as ... **reviews sugar import and metabolism during seed development** - reviews two enzymes are involved in catalysing this cleavage process - sucrose synthase and

invertase - and it has been proposed that each operates in a ... **effect of sucrose induced osmotic stress on callus growth ...** - adjustment in ion transport i.e ... the synthesis of ... 15 d treatments with various concentrations of sucrose. se and lsd are shown. accumulation of 2 ... **cloning and expression analysis of ppsut2 encoding a ...** - directly involved in sucrose transport, instead, ... an important gene in the plant sucrose synthesis ... mechanisms that control sucrose accumulation in this ... **molecular physiology of higher plant sucrose transporters** - its partitioning from the site of synthesis ... transport by a sucrose carrier may be reversed depending on ... via sucrose accumulation ... **plasmodesmata play an essential role in sucrose export ...** - plasmic transport). the synthesis of sucrose in the ... an increased rate of sucrose synthesis and ... accumulation of starch in the upper parts **the role of sucrose metabolizing proteins in hyperosmotic ...** - the role of sucrose metabolizing proteins in hyperosmotic stress tolerance ... sucrose accumulation and its ... indicated that sucrose synthesis was solely ... **translocation: distribution of assimilates in plants** - translocation: distribution of assimilates ... **phloem loading in verbascum phoeniceuml. depends on the ...** - this process keeps the sucrose concentration ... of rfo synthesis. phloem transport was negatively affected, as evidenced by the accumulation of carbohydrate in the ... **response of sugar interconversion, starch and protein ...** - response of sugar interconversion, starch and protein accumulation to supplied ... unlike sucrose, transport of ... of sucrose and its utilization in synthesis of ... **mate transporters facilitate vacuolar uptake of ...** - 39-o-glucoside for proanthocyanidin biosynthesis in medicago truncatula and ... for pa precursor synthesis and transport in ... that the 20% sucrose **sugar research and development corporation - qut** - metabolic regulation and genetic engineering 51 of sucrose and starch synthesis in c4 leaves r.t. furbank sugar transport to stalk 57 j.w. patrick **effect of drought on sorbitol and sucrose metabolism in ...** - sorbitol accumulation in both mature ... transport, and energy delivery ... is possible that sucrose synthesis in leaves can be affected by **review article sucrose and the integration of metabolism ...** - sucrose and the integration of metabolism in vascular plants ... accumulation of both sucrose and starch in barley ... synthesis with indirect effects mediated through **effects of abscisic acid and an osmoticum on the ...** - starch accumulation and germination of ... sucrose is one of the osmotically active ... changes in the levels of synthesis, transport and degradation of sucrose ... **activity of sucrose synthase and acid invertase during ...** - activity of sucrose synthase and acid invertase in ... accumulation of sucrose and ... this increase could be connected with the transport of sucrose to the ... **fructan biosynthesis in excised leaves of lolium ...** - of in vivo fructan accumulation" ^ ... kestose from sucrose. the rates of synthesis of these trisaccharides were determined in the ... for example sugar transport ... **atabca9 transporter supplies fatty acids for lipid ...** - acid transport from plastids to the er has not been identified ... with or without sucrose, ... reduced tag synthesis in abca9 seeds was confirmed in time- **phosphorylation of rice sucrose synthase isoforms promotes ...** - sucrose transport into endosperm from source organ ... deficient storage starch accumulation in developing ... sucrose synthesis and sucrose degradation using udp or **a mathematical model of phloem sucrose transport as a new ...** - a mathematical model of phloem sucrose transport as ... associated with starch synthesis are weaker in ... location via a phloem network and carbon accumulation in ... **structural and molecular basis of the role of starch and ...** - structural and molecular basis of the role of starch and sucrose in ... synthesis and speci<sup>c</sup> sugar transport and two-component systems. ... accumulation of dental ... **molecular biology and plant physiology** - molecular biology and plant physiology ... ability to transport sucrose, ... starch synthesis and storage rates are **progress in improving processing attributes in potato** - transport and starch metabolism. ... the onset of sucrose accumulation in cold-stored potato tubers is caused by an increased rate of sucrose synthesis and **sucrose phloem unloading follows an apoplastic pathway ...** - sucrose phloem unloading follows an ... phloem unloading plays a pivotal role in photoassimilate partitioning and the accumulation of ... transport of the ... **chapter 5 - phloem transport - asps** - transport cells provides a ... biosynthesis or release them immediately to the cytosol as triose phosphate for sucrose synthesis. ... or after accumulation in short ... **identification and expression profile synthase gene family ...** - study reveals evidence for an apoplasmic post-phloem sucrose transport from the funicle ... mechanism of sucrose accumulation. ... a key enzyme of sucrose synthesis, **the site of synthesis and accumulation of rice storage ...** - the site of synthesis and accumulation of rice ... two routes for the transport of storage ... precipitate was washed with and suspended in 0.25 m sucrose and stored ...

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