
Sieve Elements Comparative Structure Induction

comparative anatomical studies in five southern african ... - comparative anatomical studies in five southern african species of crassula. i. structure of the stem and the root a. moteetee and c.r. nagendran* ... elements, un lignified parenchyma and very small phloem cells. electron microscopy reveals that sieve elements and companion cells are well-differentiated. the former are irregularly shaped ... **comparative anatomical studies in five southern african ...** - comparative anatomical studies in five southern african species of crassilla: ii. structure of the leaf and the occurrence of transfer cells a. moteetee and c.r. nagendran* biology department, national university of lesotho, ... the sieve elements are thin-walled and ovoid in cross-section (figure 3a). **arabidopsis nac45/86 direct sieve element morphogenesis ...** - removed from developing sieve element cells in the plant arabidopsis. the two files of protophloem sieve elements in the arabidopsis root display a longitudinal time series through development, from appar-ently undifferentiated cells to mature enucleated cells (10-12) (fig. 1, e and f). we reconstructed a three-dimensional (3d) representation ... **an eocene fossil tree with cambial variant wood structure*** - an eocene fossil tree with cambial variant wood structure* f.m. hueber 1, e.m.v. nambudiri 2, w.d. tidwell 3 and e.f. wheeler 4.* ... fore, differ from traumatic canals which are irregular in distribution. sieve elements and companion cells were not observed in the bundles. ... comparative material of extant dicotyledons with included phloem ... **research article open access molecular and phylogenetic ...** - change and can consequently plug and open the sieve elements after wounding and regeneration. three seo (sieve element occlusion)proteins named mtseo1, mtseo2 and mtseo3 have been identified in the model legume medicago truncatula, and their role in forisome structure and assembly has been confirmed by immuno-logical and gfp-fusion studies [13-15]. **article addendum plant- and stimulus-specific variations ...** - upon phloem injury, sieve elements (ses) are occluded by combined callose-collar formation around sieve pores 1,2 and protein plugging 3-6 to prevent leakage of nutrients and invasion of phyto- **comparative study on strength characteristics of geo grid ...** - comparative study on strength characteristics of geo grid and ferro cement panel ms.a.hemamathi #1, ... geogrid shall be an integrally formed grid structure ... passing through 20 mm and retained on 10mm sieve known as course aggregate. the particles passing **vulgaris beta vulgaris - cber** - 87. relation of tobacco mosaic virus to the host cells. j. cell biol. 33:665-678. 1967. (j. cronshaw, second author.) 88. minor veins in beta leaves: structure ... **a crystalline inclusio in sievn e element nucle oif amsinckia** - a crystalline inclusio in sievn e ... summary the presenc oef usually single, elongated, compound crystalloid in nuclei s of sieve elements is an outstanding characteristic of the phloem of amsinckia douglasiana a. dc. (boraginaceae). ... lateral sieve areas have the structure common in dicotyledons, and branched plas- ... **comparative histology of fruits and seeds of certain ...** - comparative histology of fruits and seeds of certain species of cucurbitaceae ... the most conspicuous elements of the spermoderm, ignoring, with a ... fischer5, in his classical work on sieve tubes of the cucurbitaceae, describes a detailed study of the elements in all parts of the plant. **powder microscopic observation of leaf epidermal ...** - petiole of some cucurbitaceous members: a comparative analysis 1 k karthika devi, ... trichomes; more massive structure, e.g., warts, spinous bodies both epidermal and subepidermal is called emergences. the ... sieve elements and phloem parenchyma (fig2.c). **the repetitive structure in verse: a comparative study in ...** - the repetitive structure in verse: a comparative study in homeric, south slaviv, and ugaritic poetry ... observe similar patterns and elements, which manifest them- ... g with sieve, upon thee have i seen [...] in the soil, upon thee have i seen scattering in the sea. south slaviv poetry

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