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Kyung-Tae Kim, Laurie-Eve Rioux, Sylvie L. Turgeon*

Starch digesting enzyme inhibition was induced by fucoidan extracted from brown seaweeds: α-amylase and α -glucosidase inhibition induced by fucoidan at 5 and 0.05 mg/mL, respectively.

North American Artemisia species from the subgenus Tridentatae (Sagebrush):

A phytochemical, botanical and pharmacological review

MOLECULAR GENETICS AND GENOMICS

Nitrogen depletion and small R3-MYB transcription factors affecting anthocyanin accumulation in Arabidopsis leaves

Dugassa Nemie-Feyissa, Solveig Margret Olafsdottir, Behzad Heidari, Cathrine Lillo*

Small R3-MYBs are involved in anthocyanin, trichome and root hair formation through their interaction with MBWcomplexes. In response to nitrogen depletion in Arabidopsis rosette stage plants, expression of R3-MYBs CPC and ETC3/CPL3 increased two and 9-fold, respectively. CPC, but not ETC3/CPL3 exerted a negative feedback on anthocyanin accumulation.



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Distribution of Described Compound Classes Throughout the Tridentatae

SEVIEI

REVIEW



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Differential transcriptional activity of SAD, FAD2 and FAD3 desaturase genes in developing seeds of linseed contributes to varietal variation in α -linolenic acid content

Ashwini V. Rajwade, Narendra Y. Kadoo, Sanjay P. Borikar, Abhay M. Harsulkar, Prakash B. Ghorpade, Vidya S. Gupta*

Gene specific temporal expression of all the desaturases and their differential expression contributed to the variation in ALA accumulation in the high and low ALA variety groups of linseed.

The effect of aluminium-stress and exogenous spermidine on chlorophyll degradation, glutathione reductase activity and the photosystem II D1 protein gene (*psbA*) transcript level in lichen *Xanthoria parietina*

Gulseren Sen, Isil Ezgi Eryilmaz, Dilek Ozakca*

Polyamines are important in protecting plants against abiotic stresses, such as osmotic shock, drought, metal stress and UV irradiation, because of their roles in osmotic adjustment, maintenance of membrane stability and freeradical scavenging.

Ether bridge formation in loline alkaloid biosynthesis

Juan Pan, Minakshi Bhardwaj, Jerome R. Faulkner, Padmaja Nagabhyru, Nikki D. Charlton, Richard M. Higashi, Anne-Frances Miller, Carolyn A. Young, Robert B. Grossman, Christopher L. Schardl^{*}

The LolO non-heme iron oxygenase is required to form the ether bridge of loline alkaloids.

Effects of the aspartic protease inhibitor from *Lupinus bogotensis* seeds on the growth and development of *Hypothenemus hampei*: An inhibitor showing high homology with storage proteins

Diana Molina*, Luisa Patiño, Mónica Quintero, José Cortes, Sara Bastos

A Lupinus bogotensis aspartic protease inhibitor, incorporated into an artificial diet, was effective against Hypothenemus hampei and produced 50% mortality at the level of 0.91% (LD_{50}).

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