

Cytoplasmic Nuclear Plant Lectins A New Story Cell

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Cytoplasmic Nuclear Plant Lectins A

Plant lectins comprise a widespread group of carbohydrate-binding proteins that show a marked heterogeneity with respect to their molecular structure, sugar-binding specificity and temporal and spatial regulation. Until recently, the role of most lectins was associated with their binding to foreign glycans in either recognition and/or defence-related phenomena.

Cytoplasmic/nuclear plant lectins: a new story: Trends In ...

Unlike plant lectins, most animal lectins identified to date interact with endogenous glycans and, depending on their subcellular location, act either within the cell or outside the cell ().Intracellular animal lectins are involved in quality control and sorting of glycoproteins in the secretory pathway , as well as in specific processes in the cytoplasmic and/or nuclear compartment 5, 6.

Cytoplasmic/nuclear plant lectins: a new story - ScienceDirect

Based on their structure, sugar specificity and sequence homology, almost all plant lectins known today can be grouped into twelve different lectin families. Within six of these families, plant lectins have been identified in the nucleus and/or the cytoplasm ().This section gives an overview of what is known about these nucleocytoplasmic plant lectins and their carbohydrate-binding domain.

Nucleocytoplasmic plant lectins - ScienceDirect

Plants lectins is also believed to be tool in the specific protein-carbohydrate interactions within the cytoplasmic and nuclear compartments [11] and to the glycoproteins present on the cell ...

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Cytoplasmic Nuclear Plant Lectins A Cytoplasmic/nuclear plant lectins: a new story Plant lectins comprise a widespread group of carbohydrate-binding proteins that show a marked heterogeneity with respect to their molecular structure, sugar-binding specificity and temporal and spatial regulation.

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Cytoplasmic/nuclear plant lectins: a new story. Van Damme EJ(1), Barre A, Rougé P, Peumans WJ. Author information: (1)Department of Molecular Biotechnology, Ghent University, Coupure Links 653, 9000 Gent, Belgium.

Cytoplasmic/nuclear plant lectins: a new story.

Cytoplasmic/nuclear plant lectins: a new story. Cytoplasmic/nuclear plant lectins: a new story - CORE Nictaba is stable in a pH range from 5 to 11.5. The rapid inactivation of Nictaba at pH values below 5.0 contrasts with the striking stability of almost all other plant lectins under acidic conditions . Cytoplasmic Nuclear Plant Lectins A New ...

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Cytoplasmic Nuclear Plant Lectins A Cytoplasmic/nuclear plant lectins: a new story Plant lectins comprise a widespread group of carbohydrate-binding proteins that show a marked heterogeneity with respect to their molecular structure, sugar-binding specificity and temporal and spatial regulation. Cytoplasmic/nuclear plant lectins: a new story ...

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the cytoplasmic/nuclear compartment of the plant cell [2,5-7]. Based on a comprehensive analysis of the data generated by biochemical, molecular biological and plant physiological studies, and genome/transcriptome/pro-teome surveys it was proposed recently that plants also express lectins that mediate specific protein-carbohydrate

BMC Plant Biology BioMed Central

salinity. In contrast to the abundant lectins that are mostly located in the plant vacuole, these lectins are present in the nucleus and the cytoplasm of the plant cell. A novel concept was developed that these lectins probably play a role in the stress physiology of the plant [1]. The family of jacalin-related lectins (JRLs) groups

Expression analysis of the nucleocytoplasmic lectin ...

During the last few years compelling evidence has been presented for the occurrence of cytoplasmic/nuclear plant lectins that are not detectable in normal plants but are only induced upon application of well-defined stress conditions. Since both the regulation of the expression and the subcellular location indicate that these ‘non-classical lectins’ are good candidates to play a ...

The identification of inducible cytoplasmic/nuclear ...

nucleo-cytoplasmic lectin ArathEUL53 relocates to stress granules after stress. The ArathEUL53 sequence encodes a protein with a EUL lectin domain and an N-terminal domain with unknown

The ArathEUL53 Lectin Ends up in Stress Granules and Can ...

Several plant lectins have been discovered that, unlike the previously characterized “vacuolar” lectins, are not synthesized in the endoplasmic reticulum (ER) but on free ribosomes in the cytosol. Further localization studies have shown that this group of lectins locates to the nuclear and/or cytoplasmic compartment of the plant cell.

Interaction of the Tobacco Lectin with ... - Plant Physiology

In this report, we present evidence that treatment of tobacco (Nicotiana tabacum var. Samsun NN) plants with the plant hormone jasmonic acid methyl ester (JAME) induces the expression of a cytoplasmic/nuclear chitin-binding lectin that is absent from untreated plants.

Jasmonate methyl ester induces the synthesis of a ...

In contrast, most of the inducible plant lectins reside in the nucleus and the cytoplasm of a plant cell (Lannoo and Van Damme, 2010). The majority of the known plant lectins are built up of one or more lectin-like domains coupled to un-related domains such as aerolysin, AIG1, chitinase, dirigent, F-box, Kelch, kinase, LRR, NB-ARC, PAG, or TIR domains (Van Damme et al., 2008).

Frontiers | Lectin domains at the frontiers of plant ...

that some cytoplasmic/nuclear plant lectins are involved in spe-cific endogenous protein–carbohydrate interactions and might play a role in cellular regulation and signalling [5]. At present, there is evidence for the occurrence of different types of cytoplasmic/nuclear lectins in plant cells. However, it remains

Localization and in vitro binding studies suggest that the ...

Cytoplasmic/nuclear plant lectins: a new story. Trends Plant Sci. 2004; 9:484–489. doi: 10.1016/j.tplants.2004.08.003. Van Damme EJM, Lannoo N, Fouquaert E, Peumans WJ. The identification of inducible cytoplasmic/nuclear carbohydrate-binding proteins urges to develop novel concepts about the role of plant lectins.

Proteins with an Euonymus lectin-like domain are ...

Here we show that the plant hormone jasmonic acid methyl ester (JAME) induces in leaves of Nicotiana tabacum (var. Samsun NN) the expression of a lectin that is absent from untreated plants. The lectin specifically binds to oligomers of N-acetylglucosamine and is detected exclusively in the cytoplasm and the nucleus.