

Accepted Manuscript

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PII: S0168-9452(18)30177-8
DOI: <https://doi.org/10.1016/j.plantsci.2018.05.007>
Reference: PSL 9842

To appear in: *Plant Science*

Received date: 9-2-2018
Revised date: 10-5-2018
Accepted date: 11-5-2018

Please cite this article as: Nagashima Y, von Schaewen A, Koiwa H, Function of *N*-glycosylation in plants, *Plant Science* (2010), <https://doi.org/10.1016/j.plantsci.2018.05.007>

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Highlights

- *N*-linked complex glycans of plant glycoproteins have unique structures containing core α 1,3-fucose and β 1,2-xylose residues
- Some receptor-like kinases are under regulation of the ER quality control pathway.
- Salt tolerance that involves coordinated cellulose biosynthesis activities at the plasma membrane is specifically affected by loss of complex *N*-glycan maturation

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