

ABA Receptors: Past, Present and Future

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- Abscisic acid (ABA) is the key plant hormone mediating plant response to diverse stresses.
- ABA signal is perceived by multiple ABA receptors, localized at the cell surface, in the cytosol or in the nucleus.
- A central signaling complex consisting of receptors (PYR/PYL/RACRs), protein phosphatases (PP2Cs), protein kinases (SnRK2s), and transcription factors (AREBs) mediates ABA-regulated transcriptional responses.
- The study of structural and functional mode of ABA signaling complex has profound influence in molecular engineering the ABA plant stress pathway.

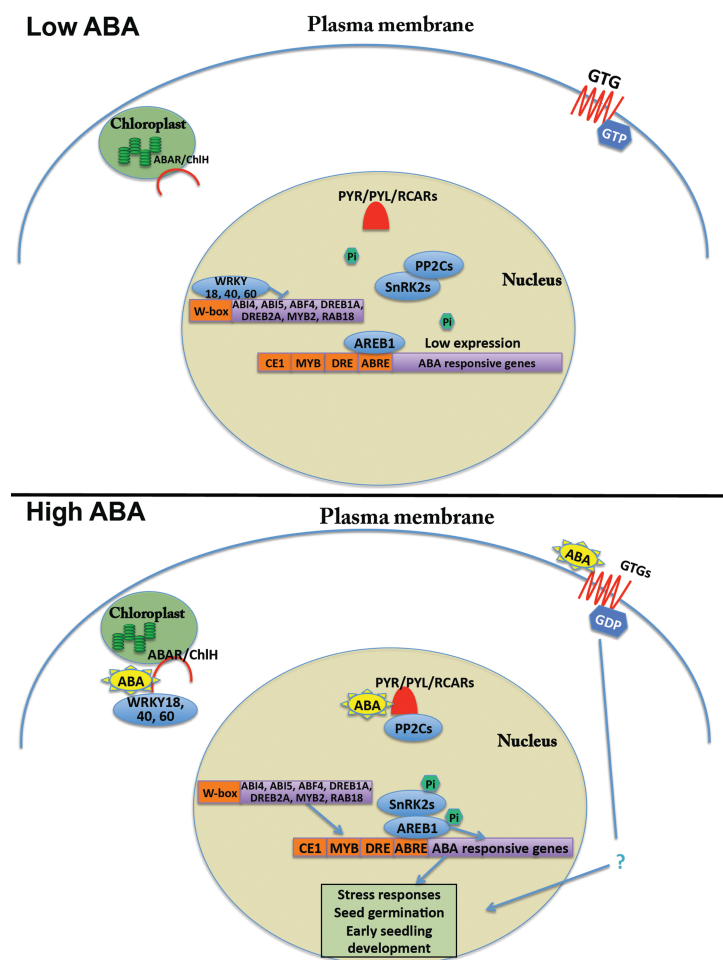


Figure 1. ABA receptors-mediated ABA signaling pathways in the regulation of transcriptional responses.

Guo J, Yang X, Weston DJ, Chen JG (2011) *J Integr Plant Biol* (doi: 10.1111/j.1744-7909.2011.01044.x.)