Association of jacalin-related lectins with wheat responses to stresses revealed by transcriptional profiling

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Online Resource 5 Sequence alignment of jacalin domains identified in wheat (a) and *A. thaliana* (b). Heltuba, a mannose-binding JRL from the Jerusalem artichoke *Helianthus tuberosus* is used as the structural reference (Bourne et al. 1999). The domain was named after the gene name followed with the domain position, for instance, At1g19175D3.1 means the first jacalin domain encoded by *At1g19715*. Shading highlights the similarity level: black=100%, gray≥85%. The 12 β-strand corresponding regions were indicated above the sequences with horizontal arrows (Bourne et al., 1999). The Red triangles indicate the key residues in Heltuba for packing of the three Greek-key motifs. The black triangles indicate conserved residues not reported in Bourne et al. (1999). Invariant residues were indicated with filled dark circles under the alignment. The motifs for the first sugar binding site identified in Heltuba are indicated by red bars and the motifs for the second sugar binding site identified in Banlec are indicated by blue bars (Meagher et al., 2005).