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Identification of wounding-inducible genes using suppression subtractive hybridization method from *Glycin max* L.

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The differential expression of genes at wounding stress was analyzed by suppression subtractive hybridization(SSH) method in soybean. Using wounding-treated cDNA as tester DNA, 1000 wounding-inducible clones were obtained. Through colony hybridization of 750 SSH-enriched clones, 50 wounding-inducible clones were isolated. Sequence analysis showed that the wounding inducible clones include pathogenesis related protein, DnaJ-like protein, beta-amyrin synthase, cytokinin-repressed protein, lipoxygenase, RNA binding protein, acyl-CoA synthetase, dihydroflavol 4-reductase-like protein, and proline-rich protein. Northern blot hybridization revealed their expression pattern upon wounding. W12 (pathogenesis related protein), W21 (DnaJ-like protein), and W51 (cytokinin-repressed protein) are most strongly induced by wounding. Not only wounding stress, most wounding-inducible genes were also induced by dehydration and salt stress.