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Differential apple gene expression during interaction of *Erwinia amylovora* with a resistant and a susceptible genotype

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E*rwinia amylovora* is the causal agent of fire blight of *Maloideae* (apple, pear). In order to identify mechanisms which discriminate incompatible from compatible interactions, differential gene expression was undertaken through cDNA-AFLP in a resistant (R) and a susceptible (S) apple genotypes challenged with a virulent wild-type strain (*Ea wt*). Expression patterns were compared with those obtained from the same genotypes of apple challenged with an avirulent hrp secretory mutant of *E. amylovora* (*Ea hrp*) and with the tobacco pathogen *Pseudomonas syringae* pv. *tabaci* (*Pst wt*), both used as controls. Three major classes of genes were identified and time-course of their expression was analyzed by semi-quantitative RT-PCR.

