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
of

Agriculture and Forestry

Development of the Downy Mildew Pathogen *Bremia Lactucae* on Transgenic
Lettuce Expressing a Bacterial β -1,3-Glucanase

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Abstract: A β -1,3-glucanase gene from *Arthrobacter* sp. driven by the 35S promoter was singly transformed into two lettuce cultivars, Cobham Gree and Diana, using the binary vector system of *Agrobacterium tumefaciens*. Transformation was confirmed by using Southern and Northern analysis, Npt II enzyme assays and segregation of resistance to kanamycin. Transgenic plants were infected with the lettuce downy mildew fungus, *Bremia lactucae* which contains β -1,3-glucan in its cell wall and alternations in the development the fungus could easily be monitored. Transgenic plants inoculated with *B. lactucae* showed different levels of resistant responses compared to the control and they were examined microscopically.

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