

Characterization of *Ralstonia solanacearum* Isolated from Ginger in Taitung

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Abstract

Bacterial wilt caused by *Ralstonia solanacearum* Smith is one of the most important ginger rhizome disease in Taitung. Four *R. solanacearum* strains collected from different ginger fields in 2019 to 2020 were studied. All strains were identified as phylotype 1 and biovar 4. After inoculated those 4 strains to tissue culture ginger seedlings and two tomato varieties plants ('Jinying' and 'Jinyin_R'), we found that those ginger strains could cause wilting symptoms on ginger but not on tomato plants. We proposed that *R. solanacearum* strains isolated from gingers in Taitung county harbor similar biochemical and genetic properties as most *R. solanacearum* strains collected from Solanaceae plants in Taiwan. However, those ginger strains are more virulent to ginger than tomato plants.

Keywords: Ginger bacterial wilt, Biovar, Phylotype

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