The complete genome sequence of a new necrovirus isolated from Olea europaea L.

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Abstract: The complete nucleotide sequence of a virus isolated from Olea europaea L. (GP isolate), previously identified as an isolate of Tobacco necrosis virus D (TNV-D) based on its coat protein sequence, was determined. The viral RNA genome consists of 3683 nucleotides and contains five open reading frames. The putative RNA-dependent RNA polymerase shows 91.2% amino acid identity with that of an isolate of Olive latent virus 1 (OLV-1) and the coat protein reveals highest sequence identity with that of TNV-D. Based on the deduced genome organization and phylogenetic analysis of predicted functional translation products with that of other necroviruses, the GP isolate genome appears to represent an example of a new virus arisen by gene exchange and is proposed to be a new necrovirus, provisionally named Olive mild mosaic virus.

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