First report of grapevine Pinot gris virus infecting grapevine in Argentina

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Fourteen viruses have been associated to grapevine in Argentina (Debat et al. 2020; Luna et al. 2019). Grapevine Pinot gris virus (family *Betaflexiviridae*; genus *Trichovirus*, GPGV) was originally described in Italy and linked to grapevine leaf mottling and deformation (GLMD) in *Vitis vinifera* cv. Pinot gris (Giampetruzzi et al. 2012). In Latin America, GPGV has been detected in Brazil, Chile and Uruguay.

A pooled sample consisting of *V. vinifera* cv. Torrontés and four criollas varieties from Argentina were subjected to high-throughput sequencing. Total RNAs from cambial scrapings were purified using the Spectrum Plant RNA Miniprep Kit (Sigma-Aldrich, USA) and sequenced in an Illumina Novaseq-6000 instrument generating 171,490,780 paired reads. These

reads were trimmed, filtered and mapped against a collection of plant virus sequences. 41 150 nt reads mapped to GPGV, covering 8% of its genome and suggesting the presence of GPGV in our pooled sample. Blastn of the 590 nt-long partial sequence returned 100% identity to GPGV isolate Regent-BE from Belgium (MN228488).

To confirm the presence of GPGV, the extracted RNA of each sample was random-primed, retrotranscribed using M-MLV-RT and subjected to PCR using primers GPgV5619f/GPgV6668r (Giampetruzzi et al. 2012). Only one of the tested samples (from *V. vinifera* cv. Torrontés Riojano) generated an amplification product which was cloned and bi-directionally Sanger-sequenced. The sequence obtained (MT450471, GPGV-ARG) presented a 98.6% highest identity with GPGV isolate BC-1 from Canada (KU194413), and 98.1% identity with the aforementioned GPGV isolate Regent-BE.

The Argentinean isolate of GPGV was found in a plant with no apparent symptoms of viral diseases. This report is of significant importance for the Argentinean viticulture as *Colomerus vitis*, a widely dispersed eriophyd mite and vector of GPGV is present in Argentinean vineyards. To our knowledge, this is the first report of GPGV in Argentina.

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