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# 10<sup>TH</sup> International Workshop on Grapevine Trunk Diseases

## BOOK OF ABSTRACTS

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**PO.15 – PHYLOGENETIC CHARACTERIZATION OF GRAPEVINE TRUNK PATHOGENS ISOLATED FROM VINEYARDS IN SOUTHERN BRAZIL.**

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This study deals with the characterization of new strains of causal agents of grapevine trunk diseases (GTD) isolated from diseased vines found in southern Brazil's vineyards surveyed between 2013 and 2016. In all, 30 isolates of fungal trunk pathogens (*Phaeomoniella chlamydospora*, *Phaeoacremonium* sp., *Fusarium* sp., *Ilyonectria macrodidyma*, *Neofusicoccum parvum* and *Botryosphaeria dothidea*) were morphologically characterized and compared through the DNA sequence data of the nuclear ribosomal DNA-internal transcribed spacer (ITS1-2) region. The sequence alignments were assayed for most parsimonious trees obtained from the ITS sequence data and 450 replications bootstrap, and they were compared to each other and with Genbank ITS1-2 sequences from GTD's pathogens from other countries. Along the pathogenicity tests with some reference isolates to confirm Koch postulates, PCR-RFLP (CAPS) assays with CfoI and HaeIII were performed in order to characterize a restriction band patterns that may be used to support the quick diagnosis of those pathogens.