



Fig. S1 Correlation analysis between lesion area and the relative expression levels of defense-related genes in grapes after inoculation with *Aspergillus niger* and treatment with SA2 or CTS3. The coefficient of determination (R^2) was calculated to assess the proportion of variance in lesion area (cm^2) on grape berries that can be explained by the linear relationship with the relative expression of key defense-related genes: (a) *VvPAL*; (b) *VvPPO*; (c) *VvPOD*; (d) *VvAPX*; (e) *VvCAT*; (f) *VvGR*; (g) *VvBGLU*; (h) *VvLOX*; (i) *VvGST*. Each point represents an individual biological replicate ($n=3$). Fitted regression lines and the corresponding R^2 values are shown, with statistical significance of the underlying Pearson correlation indicated ($p < 0.05$; $p < 0.01$; $p < 0.001$). A high R^2 value indicates that a large proportion of the variation in lesion area is associated with changes in gene expression.