

Article

The *Botrytis cinerea* effector BcXYG1 suppresses

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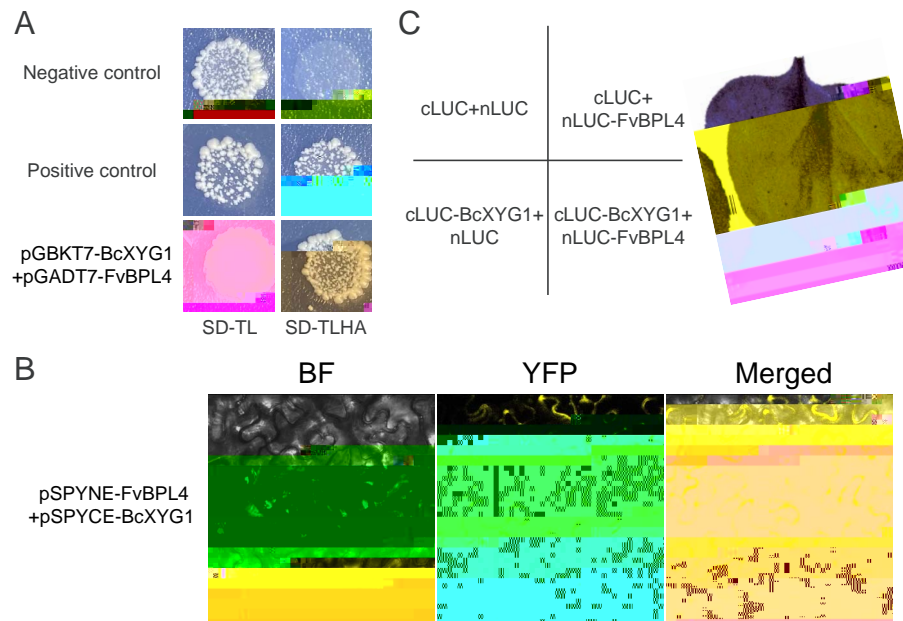


Figure 2. BcXYG1 interacts with FvBPL4 at the plasma membrane. **A**

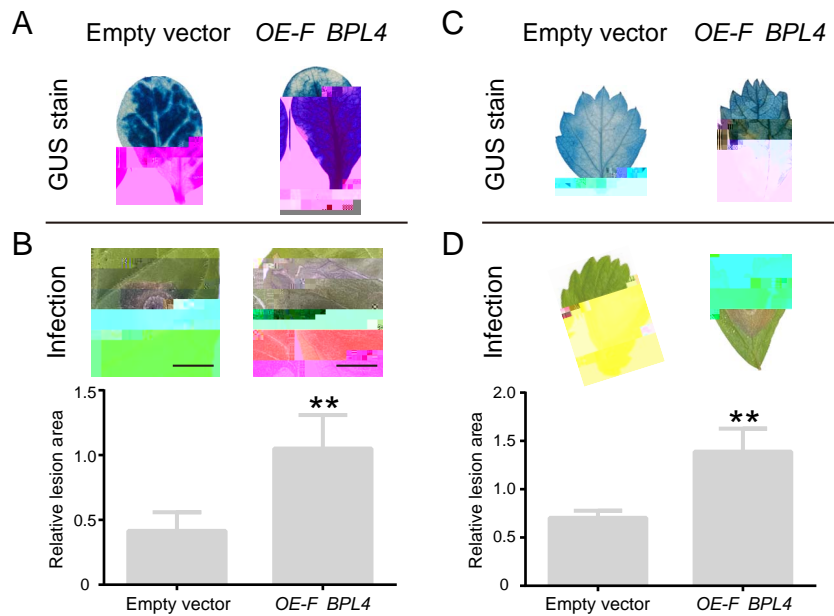


Figure 3. Overexpression of *FvBPL4* promotes *B. cinerea* infection in *N. abac* and *F. esca*. **A, C** *FvBPL4*-GUS and GUS were overexpressed in *N. abac* and *F. esca* by leaf discs method. Transgenic plants were identified using GUS staining. **B, D** Leaves of *N. abac* and *F. esca* overexpressing *FvBPL4* were inoculated with 15 μ l drop *B. cinerea* spores (n=3) and images of infected leaves were taken after 5 days to assess necrosis. Lesion areas on *N. abac* and *F. esca* leaves were measured at 120 hpi. Asterisks indicate significant differences between means (LSD, ** $P < 0.01$).

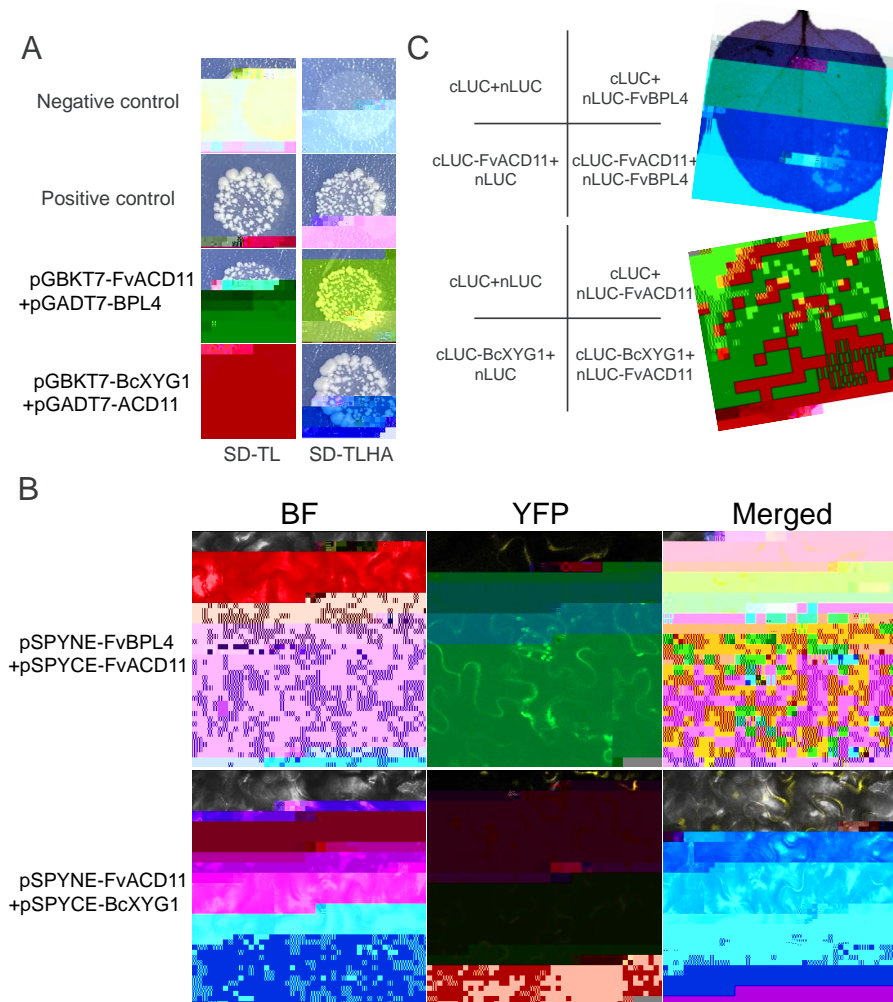


Figure 4. FvACD11 binds to FvBPL4 and BcXYG1 in yeast and *N. benthamiana*. **A** Yeast two-hybrid assay demonstrating that FvACD11 can interact with BcXYG1 and FvBPL4. **B** BiFC assay demonstrating that FvACD11 can interact with BcXYG1 and FvBPL4 in *N. benthamiana* epidermal cells. The vectors pSPYNE-FvBPL4/pSPYCE-FVACD11 and pSPYNE-FvACD11/pSPYCE-BcXYG1 were transiently co-expressed in *N. benthamiana* leaf. Bright-field (BF) and YFP fluorescence images were taken using a confocal laser-scanning microscope (514 nm excitation) and merged. A more detailed picture is shown in Supplementary Data Fig. S5. **C** LCI assay demonstrating that FvACD11 can interact with BcXYG1 and FvBPL4 in *N. benthamiana* leaves. The vectors pCAMBIA1300-FvBPL4-NLuc/pCAMBIA1300-FvACD11-CLuc and pCAMBIA1300-FvACD11-NLuc/pCAMBIA1300-BcXYG1-CLuc were transiently co-expressed in *N. benthamiana* leaf.

and FvACD11 through a novel mechanism. Silencing of FvBPL4 or FvACD11 in *F. vesicaria* leaves resulted in reduced susceptibility to *B. cinerea* (Fig. 6). We also show that FvBPL4 can stabilize FvACD11 (Fig. 6

A



Total RNA extraction and qPCR

Total RNA was extracted from all plants using the Plant Total

21. Li Q, Ai G, Shen D. *e a. A P* a c q, c effector targets