

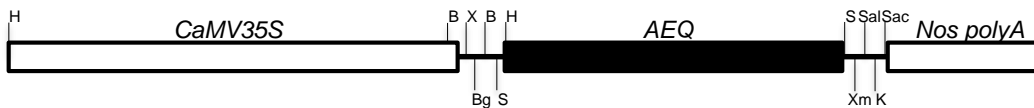
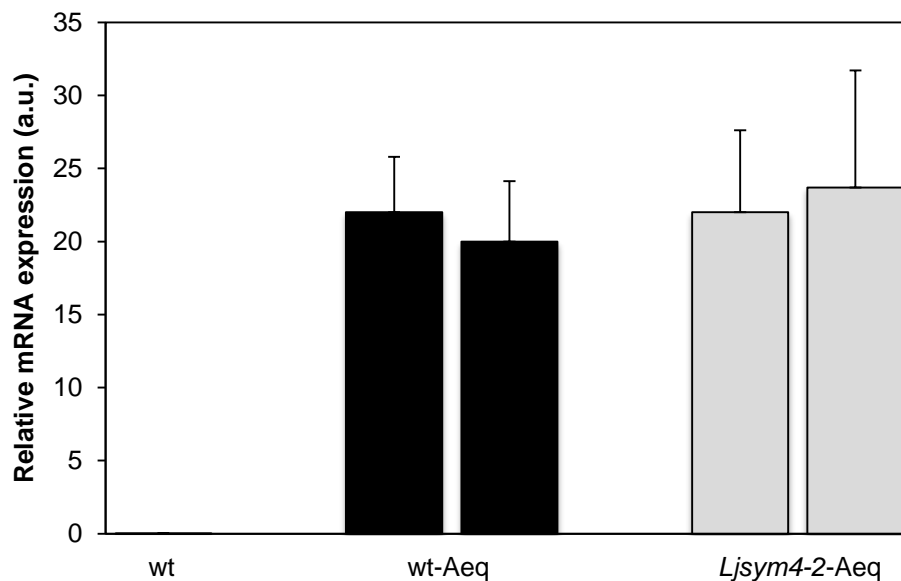
A**B**

Figure S1. (A) Schematic map of the aequorin expressing cassette of pAB1 T-DNA construct. X, *Xba*I; Bg, *Bgl*II; B, *Bam*HI; S, *Sma*I; H, *Hind*III; Xm, *Xma*I; Sal, *Sal*I; K, *Kpn*I; Sac, *Sac*I. (B) Level of aequorin transcript in *L. japonicus* wild-type and *Ljsym4-2* mutant transformants of the T2 generation, selected to set up cell suspension cultures. Expression levels are normalized to that of the internal control ubiquitin. Data are the means \pm SE of three independent experiments.

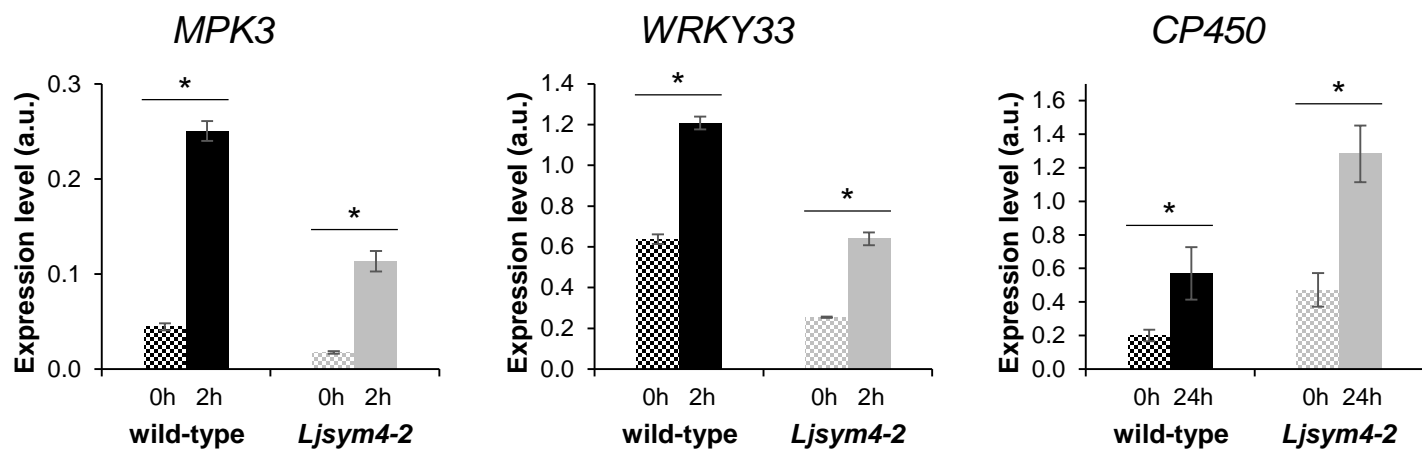


Figure S2. Quantitative RT-PCR analysis of *MPK3*, *WRKY33* and *CP450* transcripts in *L. japonicus* cell cultures of the wild-type line and *Ljsym4-2* mutant in control conditions (dotted bars) and after treatment with 0.6 μM HYTLO1 (solid bars) for different time intervals. Expression levels are normalized to the housekeeping gene *ATP synthase*. Data are the means ± SE of three replicates. * indicates statistically significant difference at $P < 0.05$.

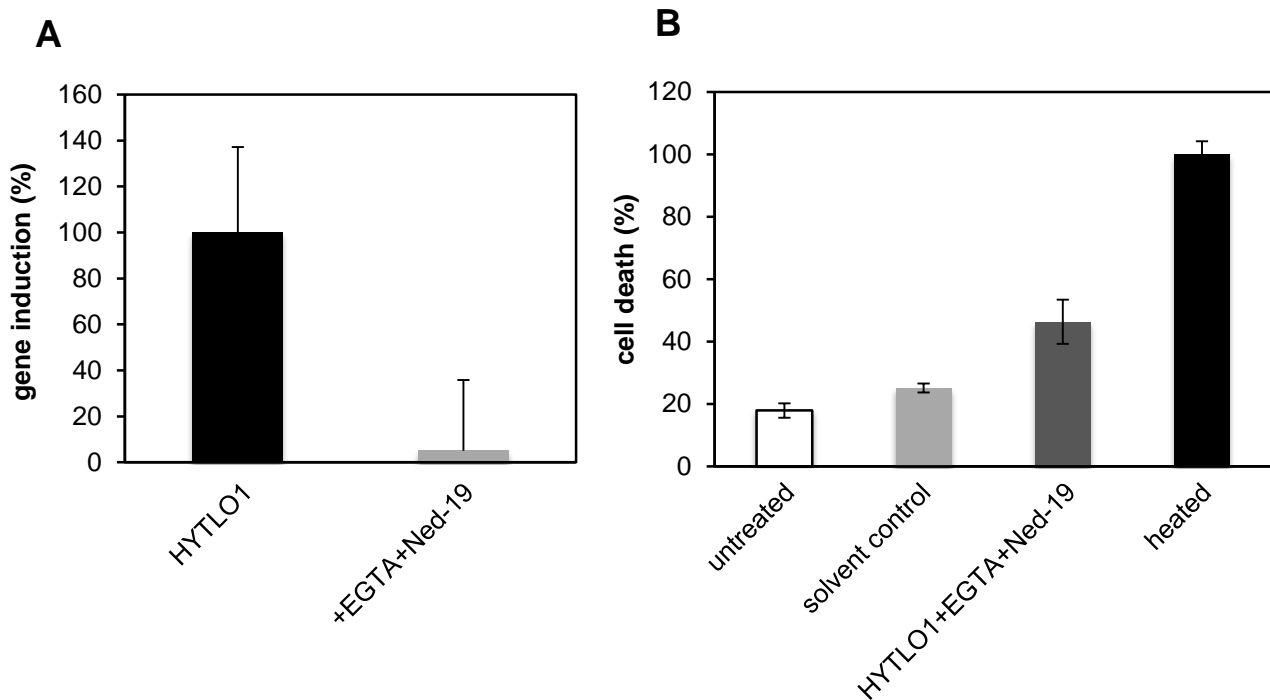


Figure S3. Effect of pretreatment with EGTA and Ned-19 on HYTLO1-induced *CP450* expression and cell viability in *L. japonicus* cells. **(A)** RT-PCR analysis of *CP450* expression after treatment with HYTLO1 (0.6 μM) for 24 h in regular cell culture medium (black bar) or after pre-treatment with 600 μM EGTA and 100 μM Ned-19 in Ca^{2+} -free medium (grey bar). **(B)** Cell viability assay after 24 h incubation in untreated samples (white bar), in Ca^{2+} -free medium supplemented with 600 μM EGTA and the solvents of Ned-19 (0.5% DMSO) and HYTLO1 (0.5% ethanol) (light grey bar), or in Ca^{2+} -free medium supplemented with 600 μM EGTA, 100 μM Ned-19 and 0.6 μM HYTLO1 (dark grey bar). 100% cell death corresponds to cells incubated for 20 min at 100°C (black bar). Data are the means \pm SE of three independent experiments.

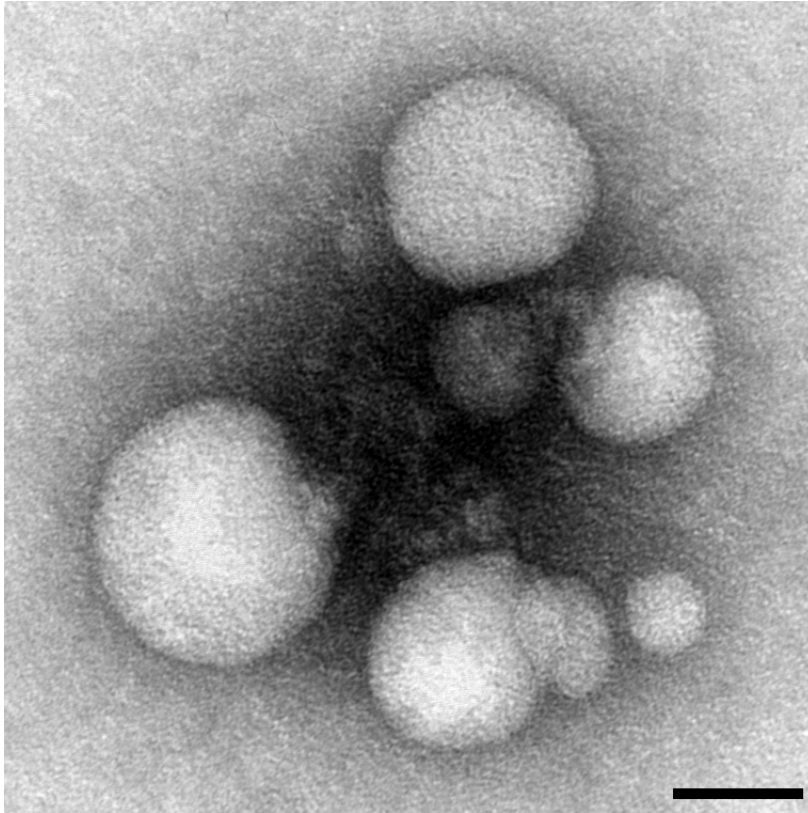


Figure S4. Negative staining with 1% uranyl acetate of purified HYTLO1. Bar, 50 nm.

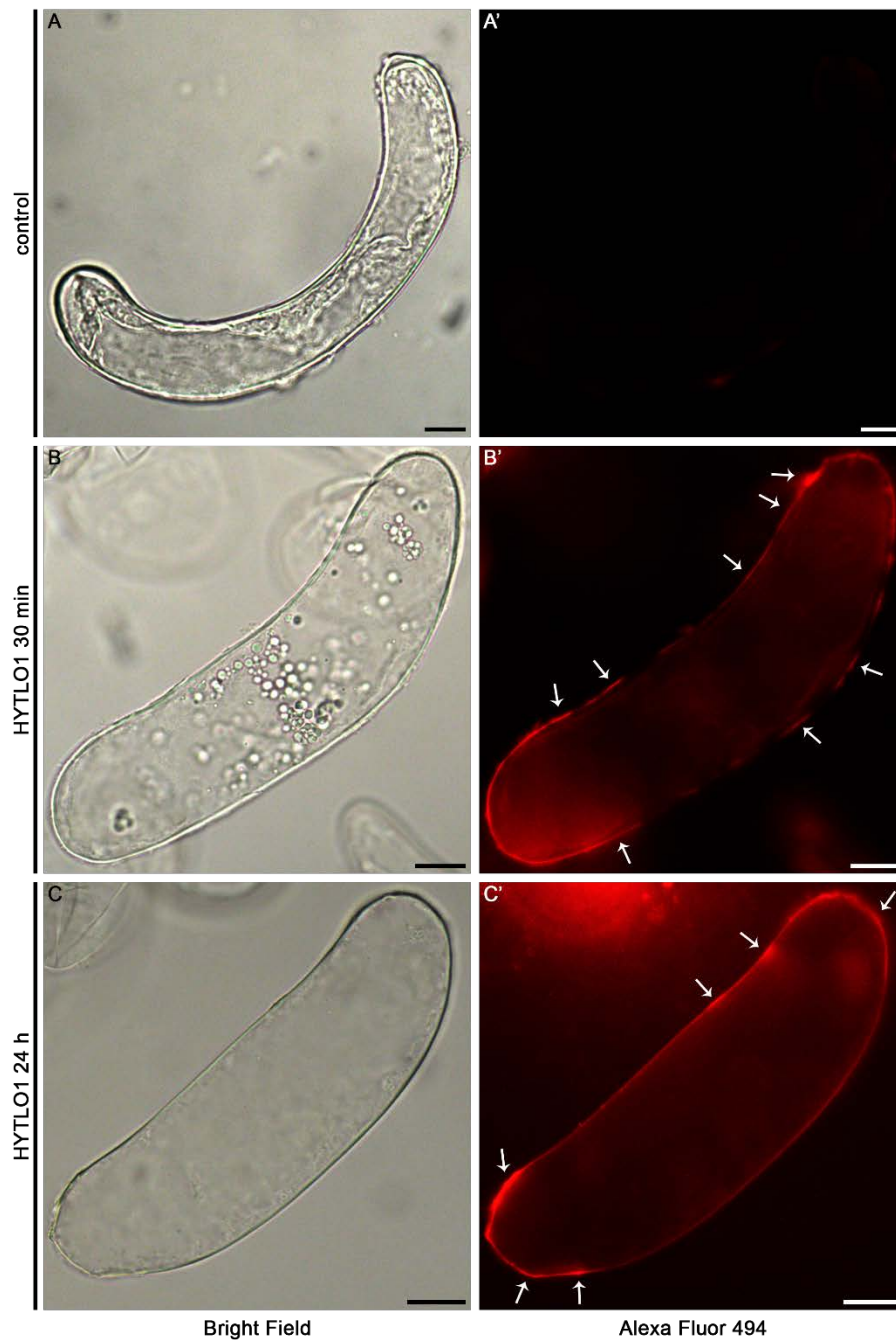


Figure S5. Immunofluorescence staining of *L. japonicus* cells treated with HYTLO1. Cells were incubated: (**A-A'**) in control conditions; (**B-B'**) with HYTLO1 (0.6 μ M) for 30 min; (**C-C'**) with HYTLO1 (0.6 μ M) for 24 h. After fixation, cells were incubated with an affinity-purified anti-HYTLO1 antibody followed by a red-fluorescent Alexa Fluor 494 secondary antibody. Bright field (**A-C**) and fluorescence microscopy (**A'-C'**) images of the same fields are shown. White arrows indicate an exclusive localization of the hydrophobin at the cell surface. Bars, 50 μ m.

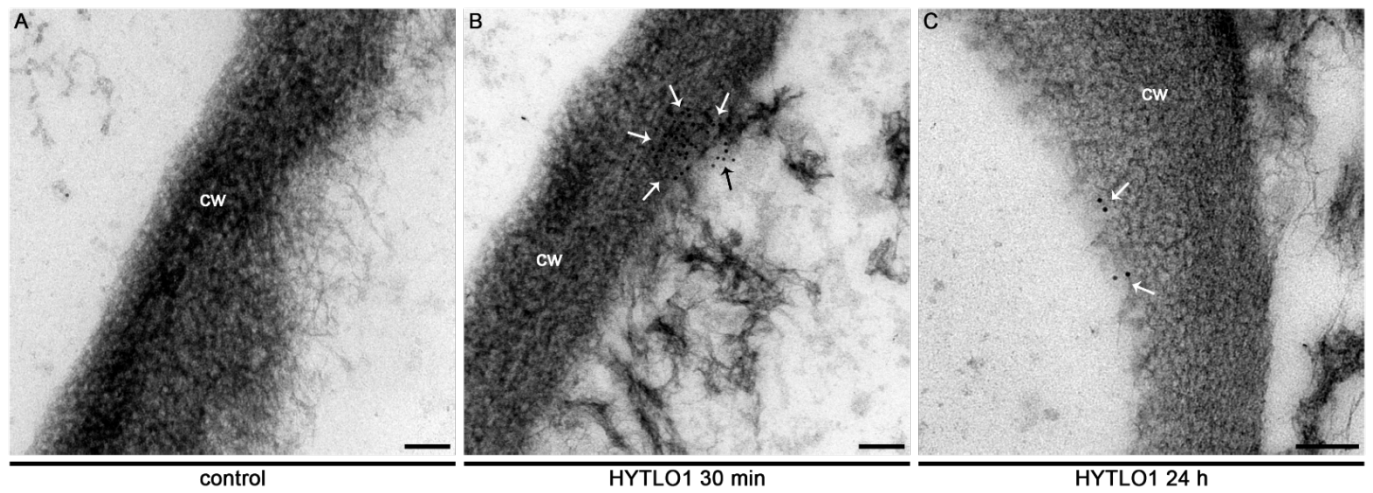


Figure S6. Immunocytochemical analysis of HYTLO1 in *Lotus japonicus* cells treated with the fungal hydrophobin. Untreated cells were used as negative control (**A**). Immunogold-labeled particles (arrows) are present across the plant cell wall width in 30 min-treated cells (**B**) and at the internal side of the cell wall in 24 h-treated cells (**C**). Bars, 100 nm.