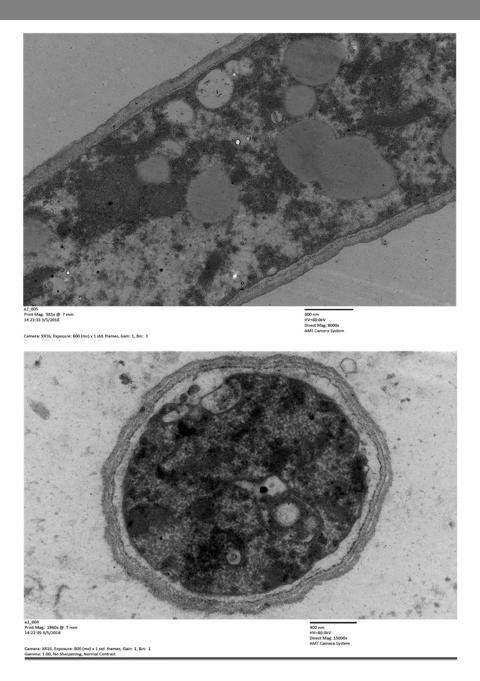
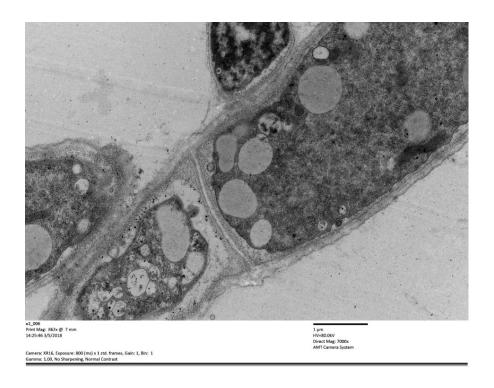
Supporting Information S11 Fig. Full size TEM micrographs used for the photoplate in Fig 3.

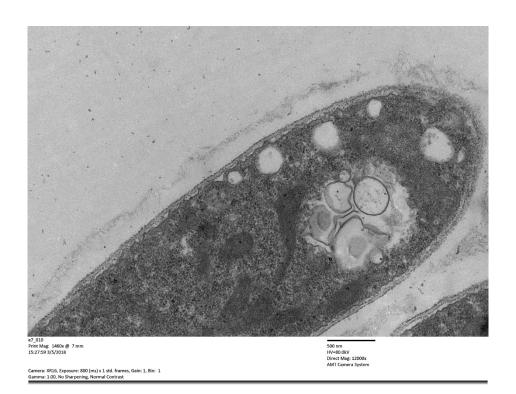
Representative TEM micrographs showing the hyphal ultrastructure of strains including the wild-type strain of *T. guizhouense* (Tg), HFB2::mRFP-overexpressing strains of Tg, HFB4-overexpressing *T. harzianum* (Th), or hyphae of Tg and Th lacking HFB4 and HFB10. All images of the aerial hyphae were obtained from a two-day-old colony. Representative images were selected from a total of 695 images obtained for Tg (361) and Th (334). Samples for TEM were prepared with at least two mutants and 30 images studied per genotype. Mutants are listed in Table 2.

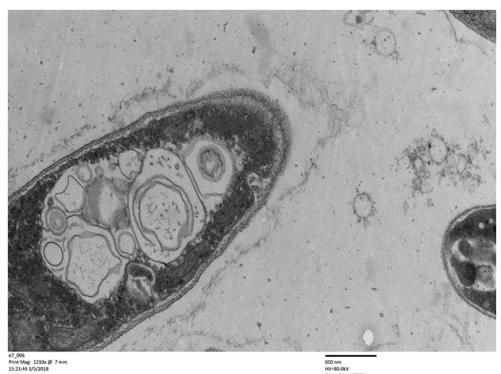
Tg



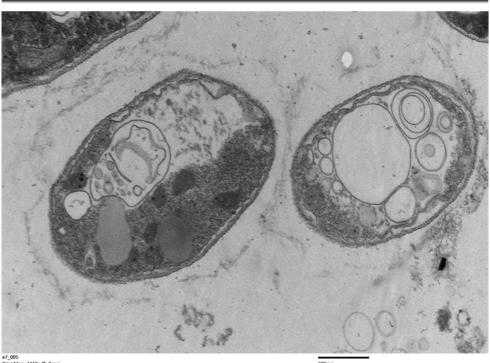


TgOE*hfb2::mrfp*





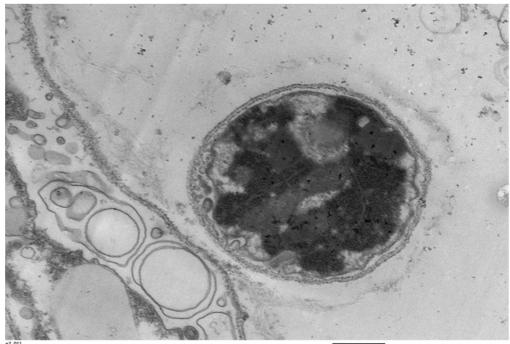
600 nm HV=80.0kV Direct Mag: 10000x AMT Camera System



e7_005 Print Mag: 1210x @ 7 mm 15:23:16 3/5/2018

Camera: XR16, Exposure: 800 (ms) x 1 std. frames, Gain: 1, 8in: 1 Gamma: 1.00, No Sharpening, Normal Contrast

600 nm HV=80.0kV Direct Mag: 10000x AMT Camera System



e7_011 Print Mag: 1460x @ 7 mm 15:28:43 3/5/2018

Camera: XR16, Exposure: 800 (ms) x 1 std. frames, Gain: 1, Bin: 1 Gamma: 1.00, No Sharpening, Normal Contrast

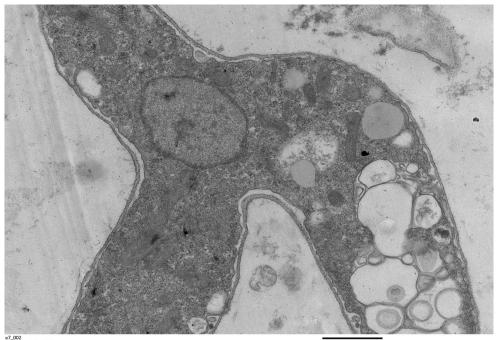
500 nm HV=80.0kV Direct Mag: 12000x AMT Camera System



e7_001 Print Mag: 981x @ 7 mm 15:18:54 3/5/2018

Camera: XR16, Exposure: 800 (ms) x 1 std. frames, Gain: 1, Bin: 1 Gamma: 1.00, No Sharpening, Normal Contrast

800 nm HV=80.0kV Direct Mag: 8000x AMT Camera System

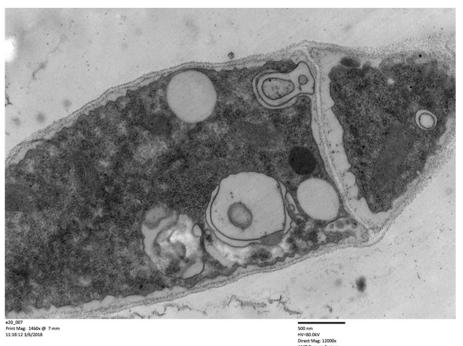


e7_002 Print Mag: 862x @ 7 mm 15:20:00 3/5/2018

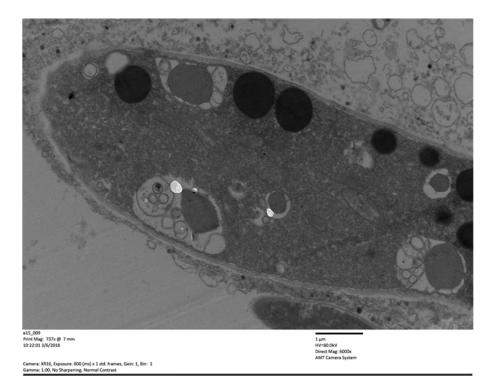
Camera: XR16, Exposure: 800 (ms) x 1 std. frames, Gain: 1, Bin: 1 Gamma: 1.00, No Sharpening, Normal Contrast

1 µm HV=80.0kV Direct Mag: 7000x AMT Camera System

_{Th}OE*hfb4*

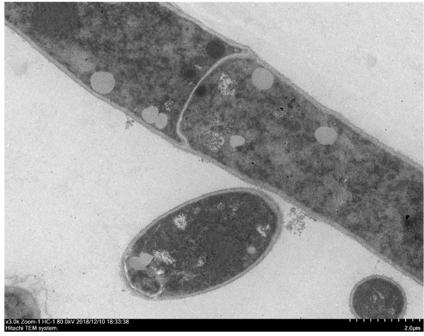


Camera: XR16, Exposure: 800 (ms) x 1 std. frames, Gain: 1, Bin: 1



$_{\mathsf{Tg}}\Delta hfb4$ - $_{\mathsf{Tg}}\Delta hfb10$





{Th}Δhfb4-{Th}Δhfb10

