



**FIG S4 An independent biological replicate of *in vitro* BFA treatment.**

(A) A diagram of the constructs for *P. infestans* transformation to express the SP-INF4-mRFP and SP-Pectinesterase (PE1)-mRFP fusion proteins. The native signal peptides (SP) were included. GFP was expressed from a separate promoter on the same plasmid to label the hyphal cytoplasm. (B-C) BFA treatment (+) inhibits secretion of INF4 -mRFP (B) and PE1-mRFP (C) into the culture filtrate (CF), indicating the BFA effect on INF4 -mRFP and PE1-mRFP is consistent.