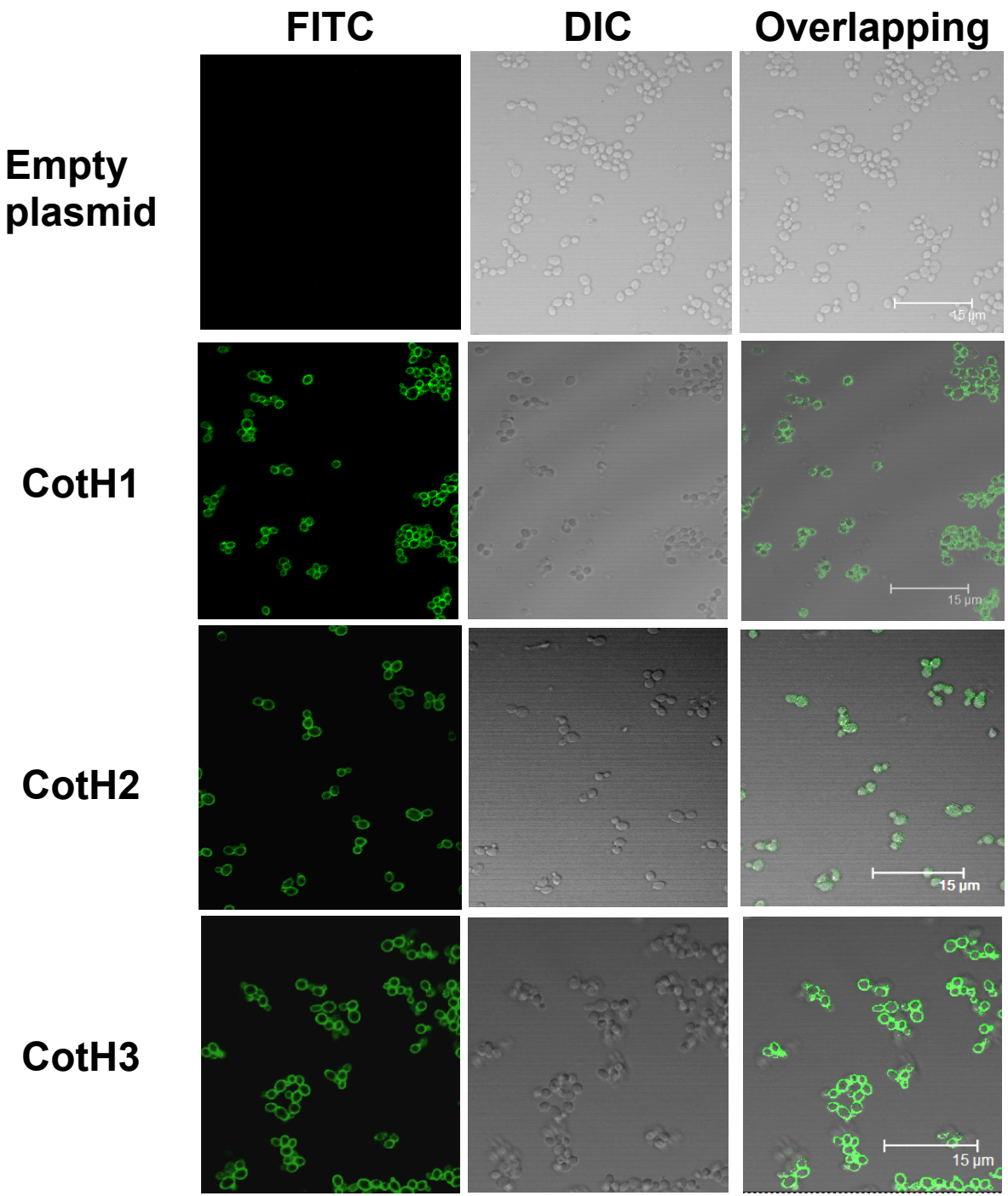
FITC
DIC
Overlapping
Empty plasmid
CotH1
CotH2
CotH3
15 µm
15 µm
15 µm
15 µm

Figure 1S

Figure 1S. Antibodies raised against peptide MGQTNDGAYRDPTDNN recognized CotH1, CotH2 and CotH3 proteins heterologously expressed by *S. cerevisiae.* *S. cerevisiae* heterologously expressing the indicated CotH proteins were stained with the anti-CotH antibodies, followed by a FITC labeled anti-rabbit goat antibody prior to imaging the cells with confocal microscopy. Scale bar = 15 mM.

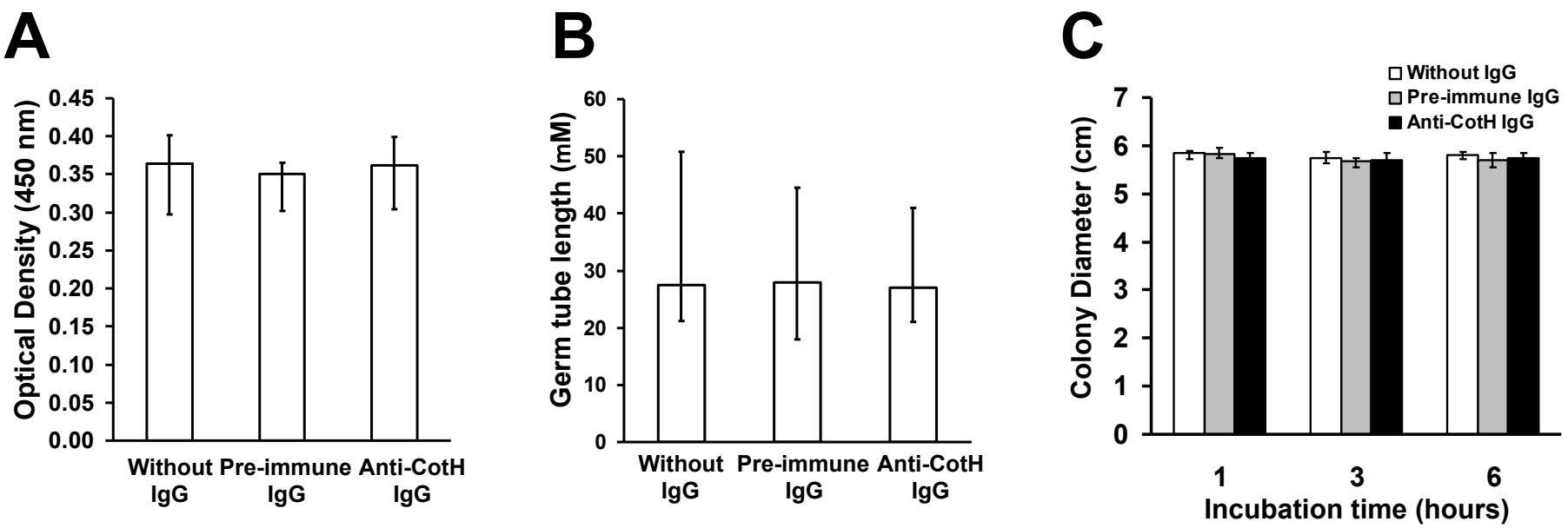
A
Optical Density (450 nm)
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Without IgG
Pre-immune IgG
Anti-CotH IgG
B
Germ tube length (mM)
60
50
40
30
20
10
0
Without IgG
Pre-immune IgG
Anti-CotH IgG
C
Without IgG
Pre-immune IgG
Anti-CotH IgG
Colony Diameter (cm)
7
6
5
4
3
2
1
0
1
3
6
Incubation time (hours)

Figure 2S

Figure 2S. Anti-CotH antibodies has no effect on respiration, germlings formation or growth rate of *R. oryzae*. *R. oryzae* 99-880 spores were incubated without IgG, with rabbit 10 mg/ml of pre-immune IgG, or Anti-CotH IgG for varying time periods at 37^{o}C. *R. oryzae* respiration was assessed after 6 h incubation with pre-immune IgG or anti-CotH IgG and quantified spectrophotometrically (A, *n*=12) using XTT-menadione assay. The effect of anti-CotH IgG on germ tube formation (*n*=50 per arm) was measured microscopically after 6 h incubation with the antibodies (B). To determine the effect of the antibody on growth rate, *R. oryzae* spores (10^7/ ml) were incubated with 10 mg/ml IgG for 1,3, or 6 h prior to plating 10^5 cells on YPD plates. The diameter of the colony (C, *n*=6 per arm) was measured after 24 h incubation at 37^{o}C. Data are expressed as median $\pm$ interquartile range.

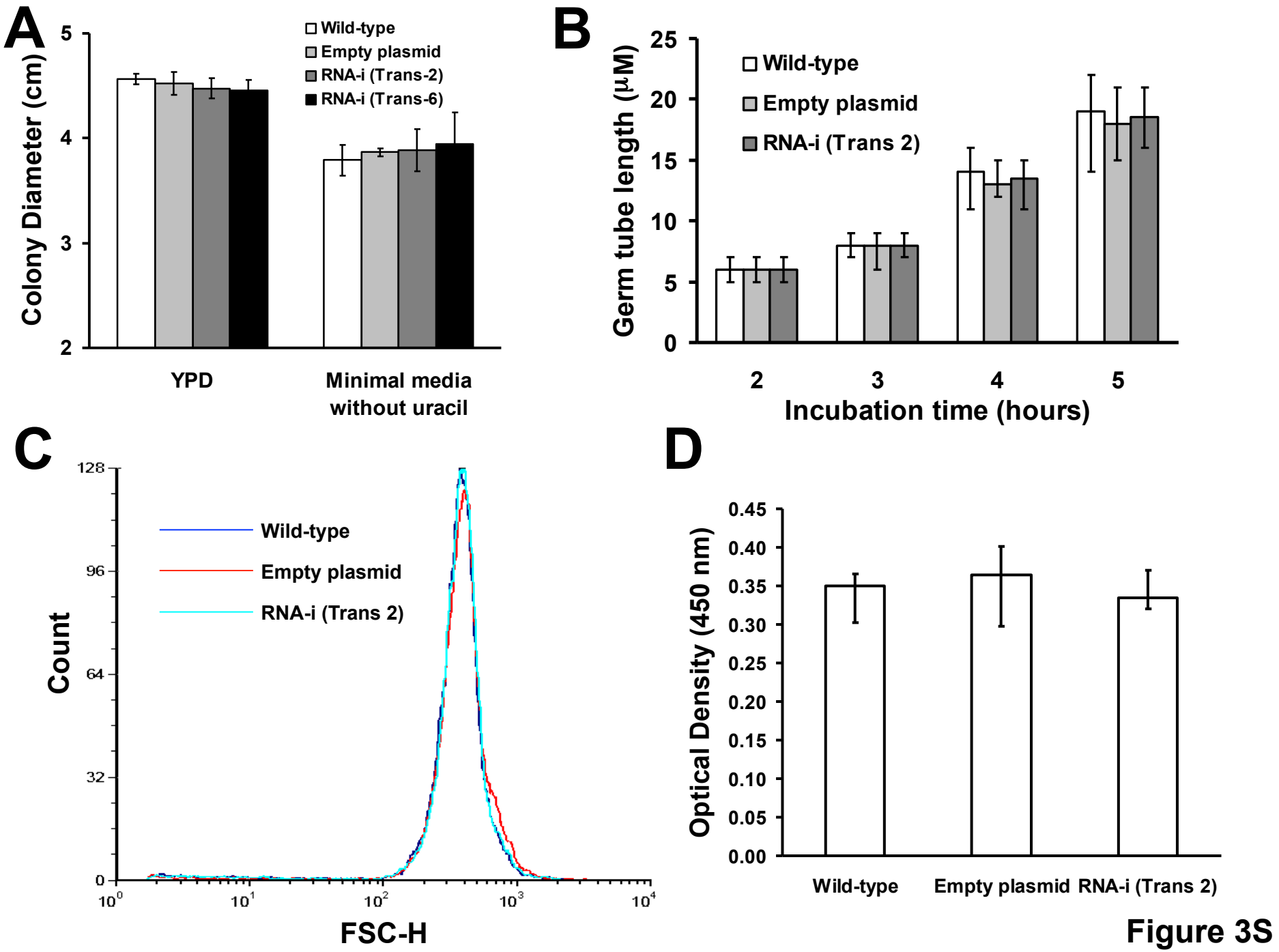
A
Colony Diameter (cm)
5
4
3
2
Wild-type
Empty plasmid
RNA-i (Trans-2)
RNA-i (Trans-6)
YPD
Minimal media without uracil
B
Germ tube length (μM)
25
20
15
10
5
0
Wild-type
Empty plasmid
RNA-i (Trans 2)
2
3
4
5
Incubation time (hours)
C
Count
128
96
64
32
0
Wild-type
Empty plasmid
RNA-i (Trans 2)
10^0
10^1
10^2
10^3
10^4
FSC-H
D
Optical Density (450 nm)
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Wild-type
Empty plasmid
RNA-i (Trans 2)

Figure 3S

Figure 3S. **RNA-i construct targeting *CotH2* and *CotH3* has no effect on the growth, the pattern of germination, cell size of or respiration of *R. oryzae.*** The two transformants with reduced *CotH2* and *CotH3* expression had similar growth rate on YPD or minimal medium (YNB) without uracil plates (A), germination pattern in YPD medium at 37^{o}C for different time periods (B), cell size as determined by flow cytometry (C), or cell metabolism (D) when compared to the wild-type cells or cells transformed with the empty plasmid. Data in A (n=9 per time point from three experiments), B (n=100 per time point from two experiments cells in each time point), or D (n=12 per group from three experiments) represent median $\pm$ interquartile ranges.

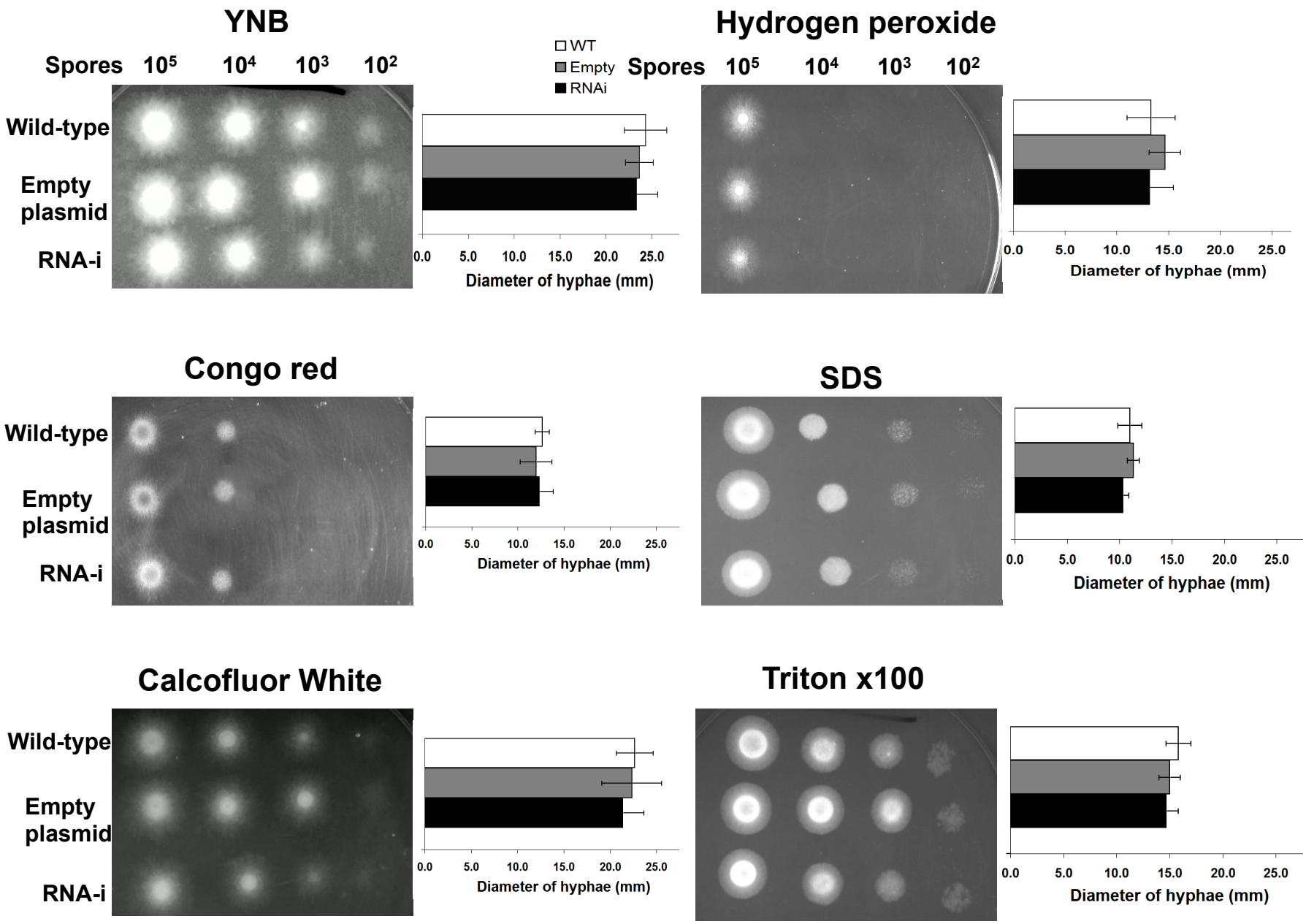
YNB
Spores 10⁵ 10⁴ 10³ 10²
Wild-type
Empty plasmid
RNA-i
WT
Empty
RNAi
0.0 5.0 10.0 15.0 20.0 25.0
Diameter of hyphae (mm)
Hydrogen peroxide
Spores 10⁵ 10⁴ 10³ 10²
0.0 5.0 10.0 15.0 20.0 25.0
Diameter of hyphae (mm)
Congo red
Wild-type
Empty plasmid
RNA-i
0.0 5.0 10.0 15.0 20.0 25.0
Diameter of hyphae (mm)
SDS
0.0 5.0 10.0 15.0 20.0 25.0
Diameter of hyphae (mm)
Calcofluor White
Wild-type
Empty plasmid
RNA-i
0.0 5.0 10.0 15.0 20.0 25.0
Diameter of hyphae (mm)
Triton x100
0.0 5.0 10.0 15.0 20.0 25.0
Diameter of hyphae (mm)

Figure 4S

Figure 4S. **RNA-i construct targeting *CotH2* and *CotH3* did not alter the cell wall integrity of *R. oryzae*.** *R. oryzae* 99-880 (wild-type), *R. oryzae* transformed with empty plasmid or RNA-i construct were grown at 10 fold dilution (10^5-10^2) on YNB medium without uracil containing the cell wall stressors Congo red (2 mg/ml), calcofluor white (0.1 mg/ml), hydrogen peroxide, SDS (0.004%) or Triton x100 (0.1%). Plates were incubated for 16 h at 37^{o}C before measuring the diameter of growth of the. Data (n=6) are presented as the average colony diameter (mm) $\pm$ SD of the 10^5 inoculum.

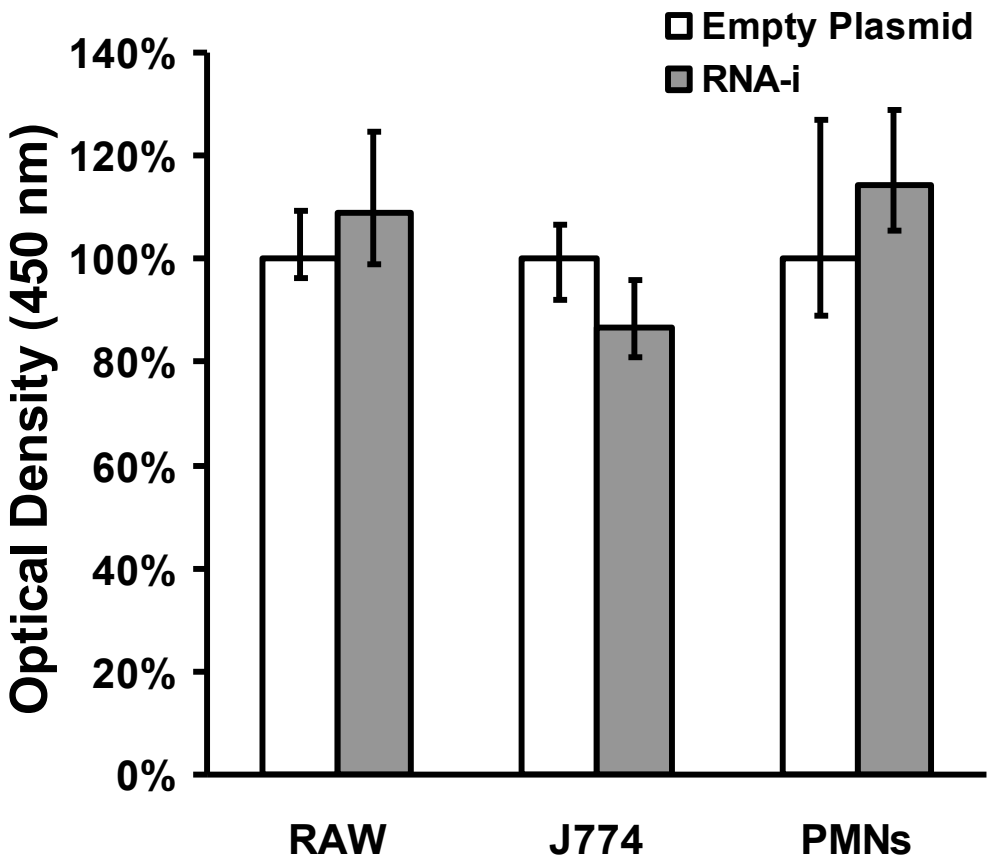

Figure 5S. Attenuation of *CotH2* and *CotH3* expression did not alter susceptibility of *R. oryzae* to mouse macrophage cells lines or mouse neutrophils (PMNs). *R. oryzae* spores (10^4) transformed with empty plasmid or RNA-i construct were grown with mouse macrophage cell RAW or J774 (2×10^5), or primary neutrophils (1×10^5) to give an target:effector ratio of 1:20 or 1:10, respectively. The cells were co-incubated for 6 h at 37^0C prior to determining macrophage-mediated cell damage by using the XTT assay. Data is presented as median optical density of 8 replica from two independent experiments $\pm$ interquartile range.

Figure 5S