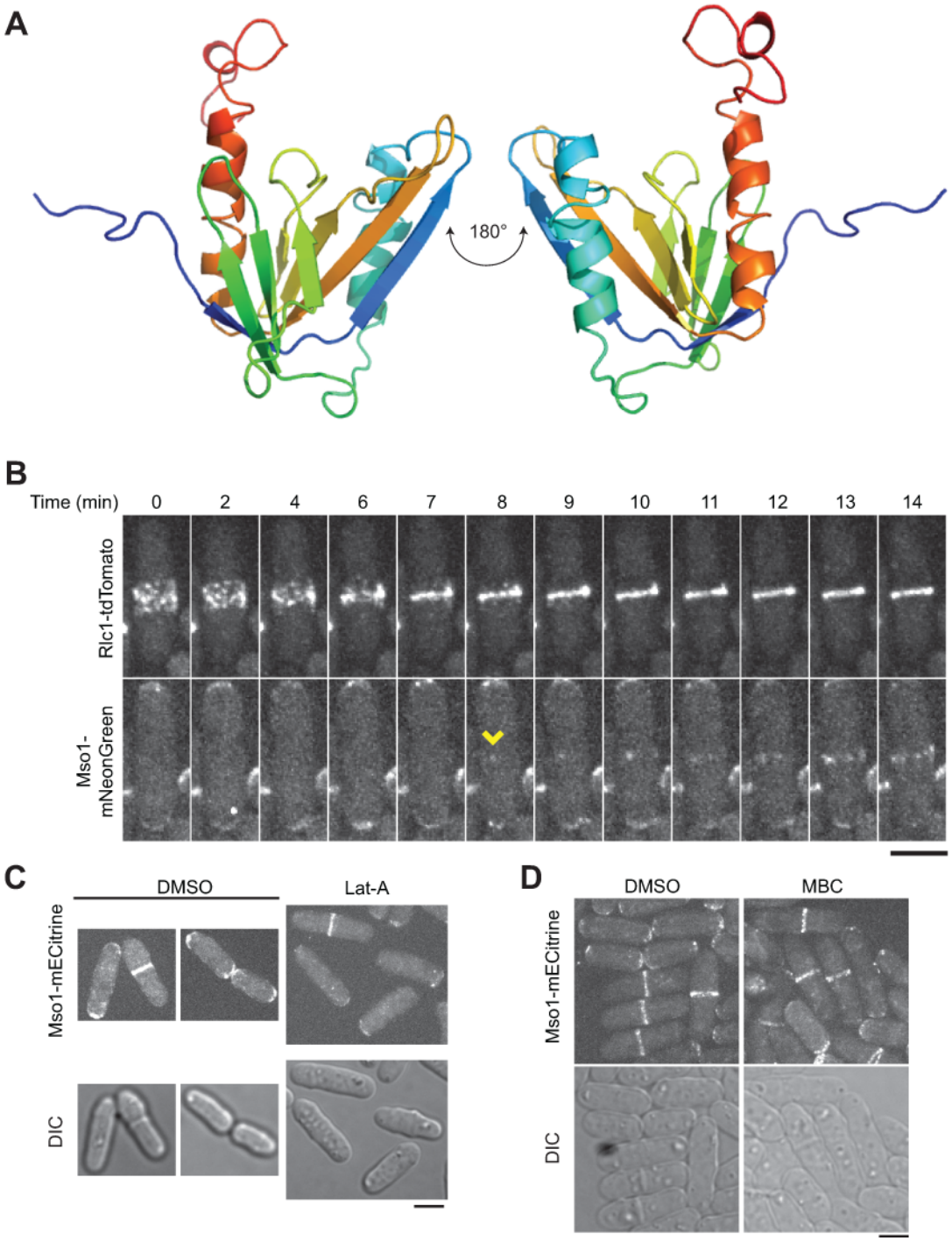
Supplemental Materials

Molecular Biology of the Cell

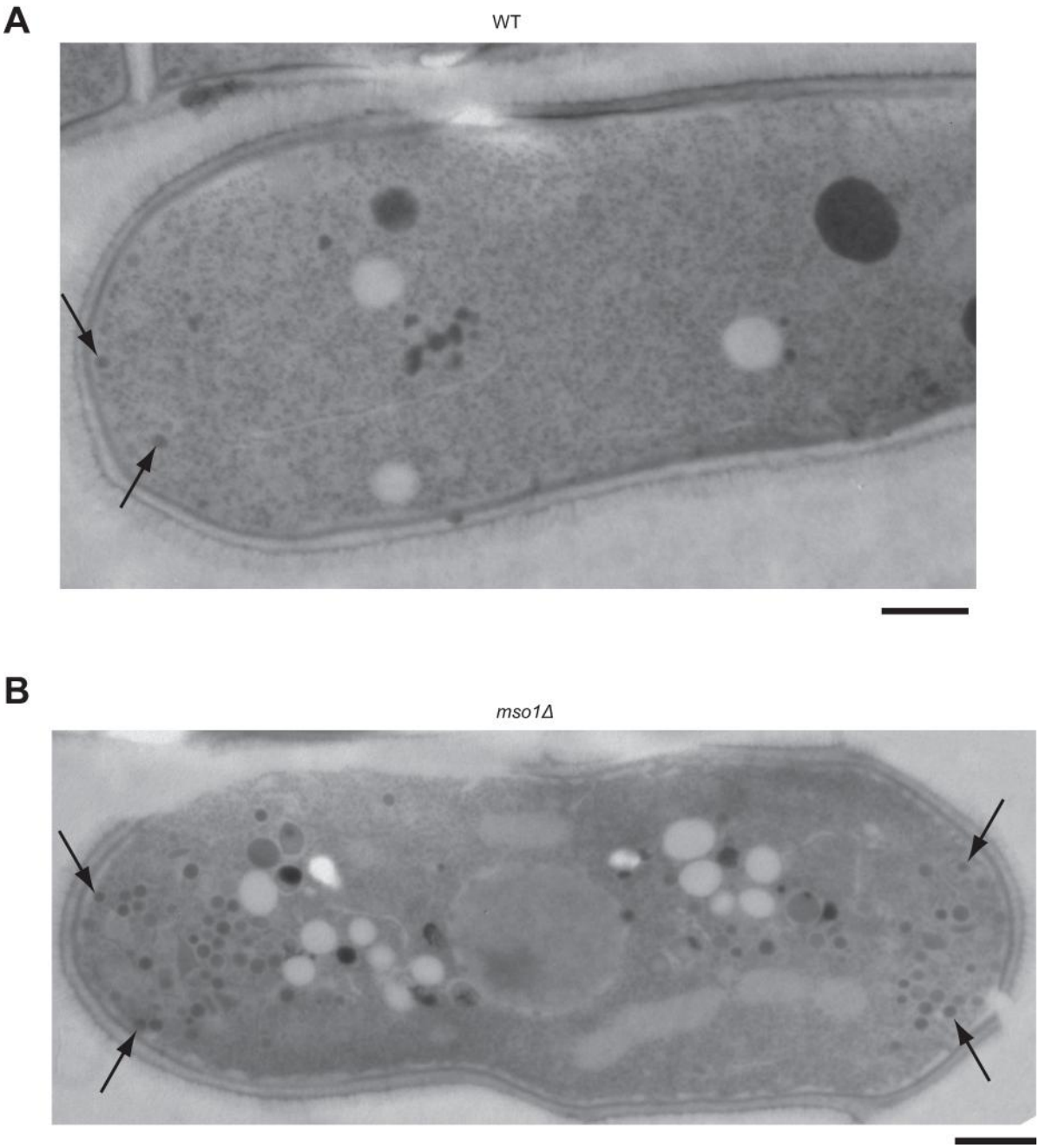
Gerien et al.

Gerien, Supplemental Figure S1



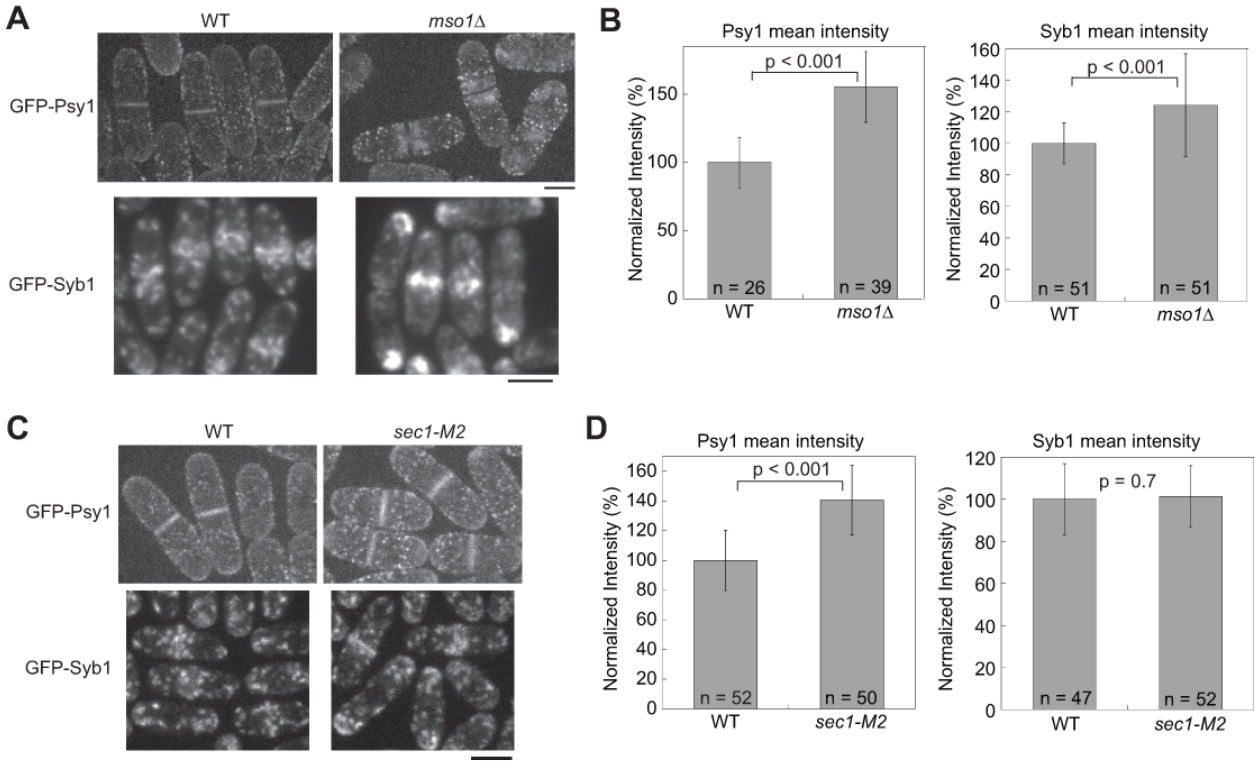
SUPPLEMENTAL FIGURE S1: (A) Homology modeling of Mso1 using the crystal structure of human Mint1 as a template [PDB: 4DBB (Matos et al., 2012)]. (B) Comparison of Rlc1-tdTomato node condensation into the contractile ring to the arrival of Mso1-mNeonGreen to the division site. (C) Mso1-mECitrine localization in cells treated with DMSO or with Latrunculin-A to disrupt actin filaments. (D) Mso1-mECitrine localization in cells treated with DMSO or with MBC to disrupt microtubules. Bars, 5 µm.

Gerien, Supplemental Figure S2



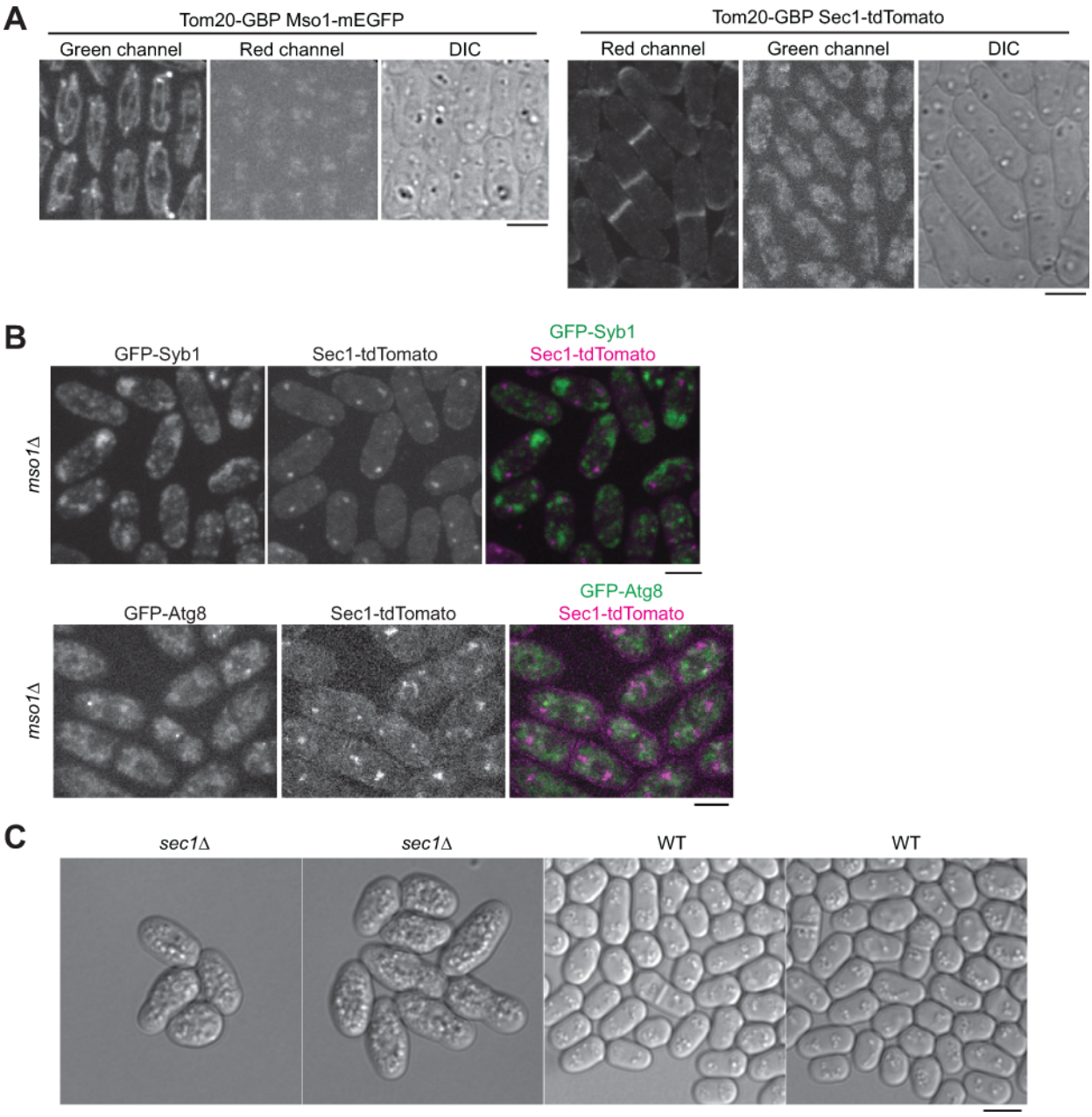
SUPPLEMENTAL FIGURE S2: (A, B) Electron micrographs of WT (A) and *mso1*Δ (B) cells in interphase. Arrows point to examples of vesicles near the cells tips. Bars, 500 nm.

Gerien, Supplemental Figure S3



SUPPLEMENTAL FIGURE S3: (A, B) Sum intensity projections (A) and quantifications (B) of global intensity (mean ± standard deviations) of GFP-Psy1 and GFP-Syb1 in septating WT and *mso1*Δ cells after grown for 2 hours at 36°C. (C, D) Sum intensity projections (C) and quantifications (D) of global intensity (mean ± standard deviations) of GFP-Psy1 and GFP-Syb1 in septating WT and *sec1-M2* cells after grown for 2 hours at 36°C.

Gerien, Supplemental Figure S4



SUPPLEMENTAL FIGURE S4: (A) Controls for Tom20-GBP mislocalization experiments. Left, Tom20-GBP recruits Mso1-mEGFP to the mitochondria. Right, Tom20-GBP cannot recruit Sec1-tdTomato to the mitochondria. No signal bleedthrough between green and red channels was detected. (B) Sec1 imaged with a vesicle marker Syb1 or an autophagy marker Atg8 in *mso1Δ*

cells grown for 2 hours at 36°C. (C) DIC images of *sec1*$^{+}$ and *sec1*$^{-}$ cells from a representative tetrad grown on YE5S plate at 25°C.