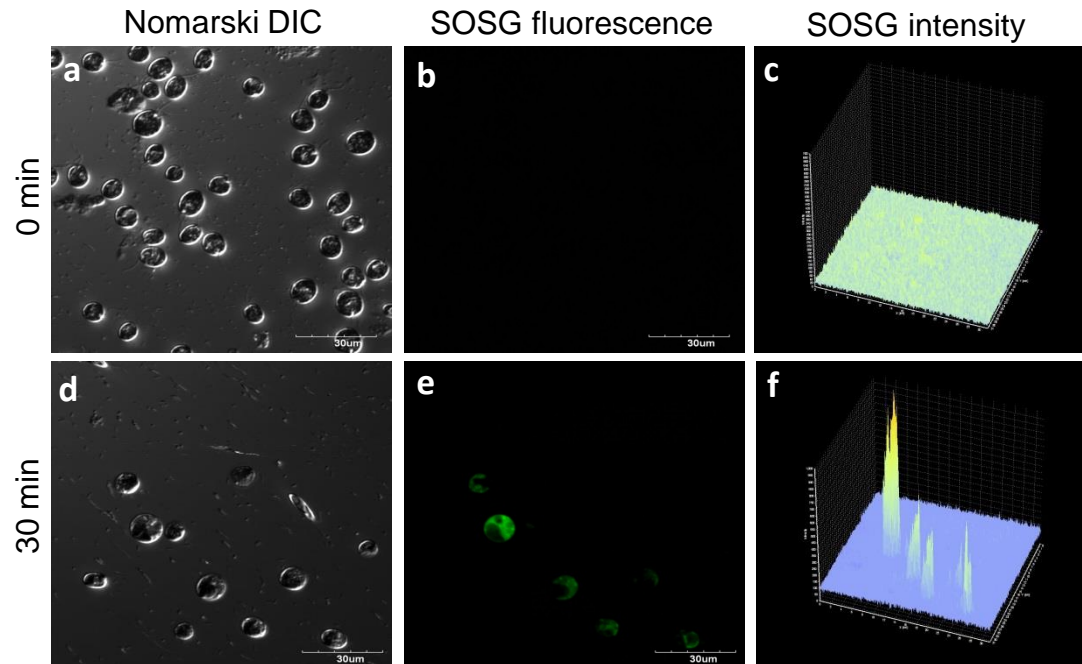
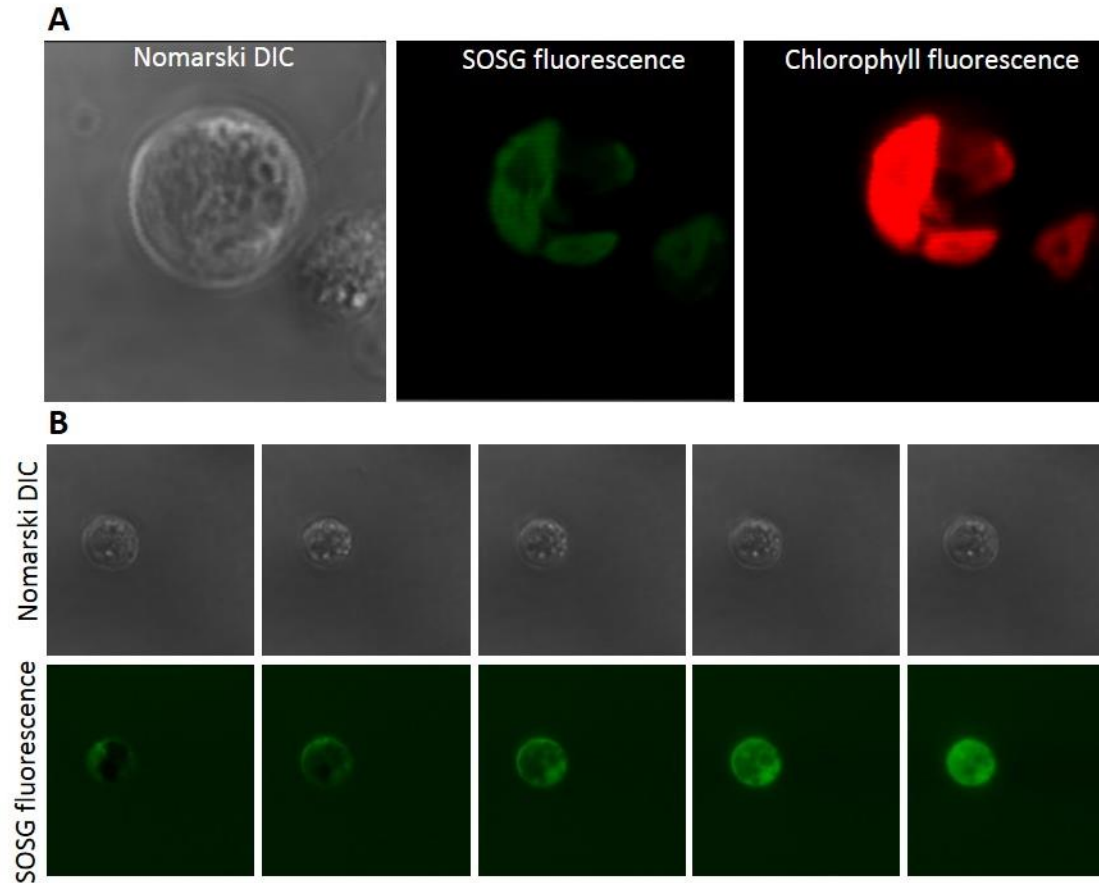


Singlet oxygen production in *Chlamydomonas reinhardtii* under heat stress

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Supplementary data 1: Detection of singlet oxygen in multiple cells of Chlamydomonas by laser confocal scanning microscopy. Chlamydomonas cells at room temperature and heated at 40 °C during 30 min of SOSG staining as detected by confocal laser scanning microscope (λ_{ex} =488nm, λ_{em} =505-525nm). The images represent (from left to right) Nomarski DIC, SOSG fluorescence and distribution of SOSG intensity in and among different cells.



Supplementary data 2: Detection and localization of singlet oxygen formation in *Chlamydomonas* cells by laser confocal scanning microscopy (A); *Chlamydomonas* cells heated at 40 °C during 30 min of SOSG staining as detected by confocal laser scanning microscope ($\lambda_{\text{ex}}=488\text{nm}$, $\lambda_{\text{em}}=505\text{-}525\text{nm}$). The images represent (from left to right) Nomarski DIC, SOSG fluorescence and chlorophyll fluorescence distribution. (B); Localization of $^1\text{O}_2$ in heated (30 min) *Chlamydomonas* cells using SOSG fluorescence measured in the multiple layers of *Chlamydomonas* cells.