

SUPPLEMENTARY DATA

Expression of the H₂O₂ biosensor roGFP-Tpx1.C169S in fission and budding yeasts and Jurkat cells to compare intracellular H₂O₂ levels, transmembrane gradients, and response to metals

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It includes:

3 supplementary Figures

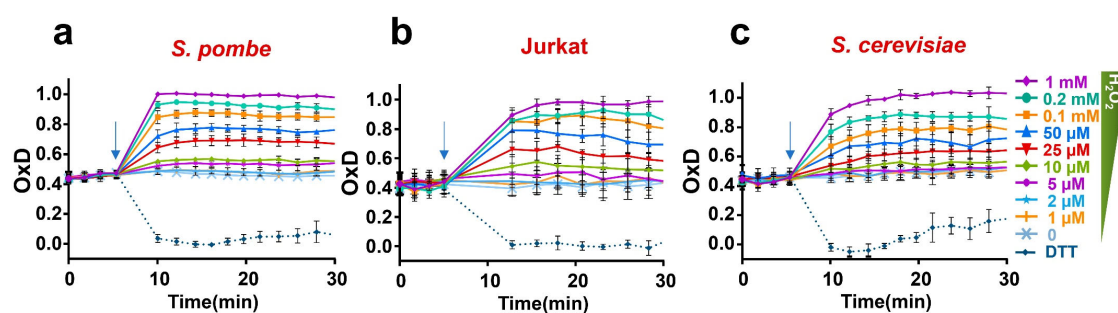


Figure S1. Expression of roGFP2-Tpx1.C169S in fission yeast, Jurkat and budding yeast. Wild-type of *S. pombe* (HM123), *S. cerevisiae* (BY4741) or Jurkat T cells, were transformed with plasmids p407.C169S, p791 or stably expressed p797, respectively, all allowing roGFP2-Tpx1.C169S expression. Oxidation of the reporter was estimated as described in Figure 2. Data from three biological replicates with error bars (S.D.) are shown. The time of addition is indicated with arrows.

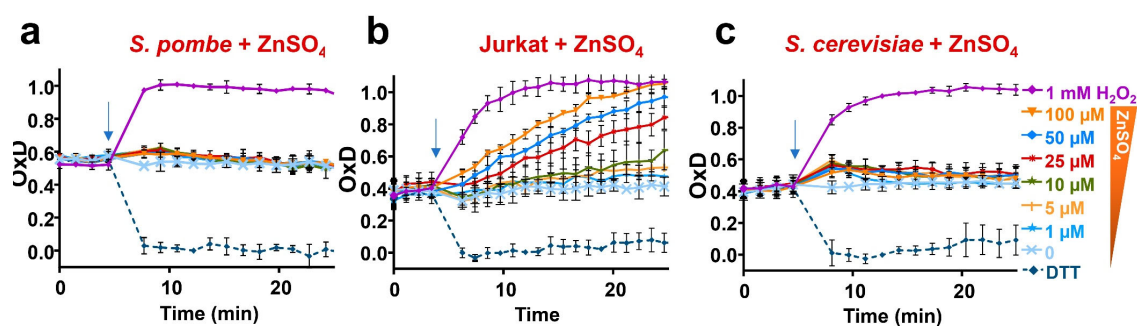


Figure S2. Cell suspensions of HM123 (*S. pombe*) (a), Jurkat T cells (b) or BY4741 (*S. cerevisiae*) (c) expressing roGFP2-Tpx1.C169S were treated with H₂O₂ or DTT (as controls) or with the indicated concentrations of ZnSO₄. Experiment and analysis was performed as described in Figure 3. Data from three biological replicates with error bars (S.D.) are shown. The time of addition is indicated with arrows.

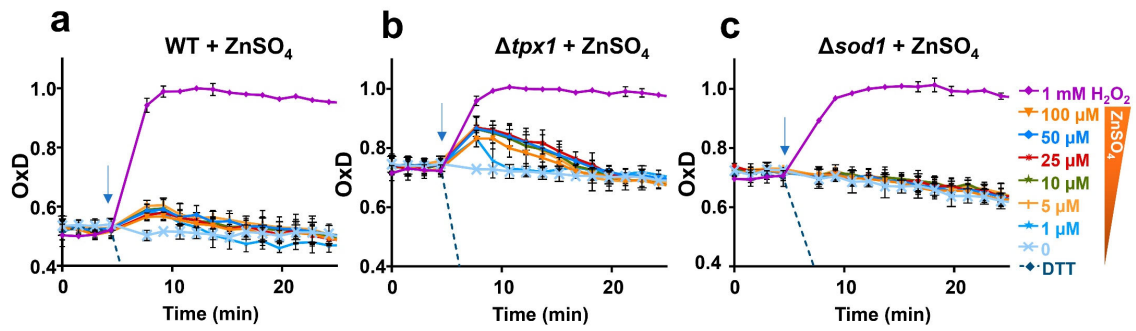


Figure S3. Fission yeast strains HM123 (WT) (a), SG5 ($\Delta tpx1$) (b) and JM18 ($\Delta sod1$) (c), transformed with p407.C169S to express roGFP2-Tpx1.C169S were treated with the indicated concentrations of DTT, ZnSO₄ or H₂O₂. Experiment and analysis was performed as described in Figure 4. Data from three biological replicates with error bars (S.D.) are shown. The time of addition is indicated with arrows.