

## Supplementary Figure 1

The cell count and mean X (characterizing the fluorescence intensity) for the cells of *YDR034W-B-GFP* and *YBR056W-A-GFP* strains of *S. cerevisiae* cultivated for 24 h in control YPD (C), and in YPD supplemented with 0.2 mM  $\text{Cd}^{2+}$  (Cd) or 4 mM  $\text{Mn}^{2+}$  (Mn)

The cell concentration in the cultivation medium was determined by flow cytometry. After a series of dilutions of the cell suspension with water, the number of cells in 25  $\mu\text{l}$  in each sample was counted on a NovoCyte Flow cytometer (Agilent, USA). Expression of GFP-tagged proteins was determined on a NovoCyte flow cytometer using 488 nm for excitation and 585 nm for emission. 100 000 cells were counted at each experimental point. All assays were repeated 4–5 times and the representative cells count curves are presented.

