

**Table S2 – Comparison of cell and vacuole size measurements (related to Results and Discussion)**

Values for vacuole size from this study show the average and standard deviation for the entire population. Average vacuole size ranges reported from Larabell et al (\*) were estimated from Figures 3&4 in that paper which binned cells by cell cycle stage (1).

Strain	Cell Volume Range ( $\mu\text{m}^3$ )	Average vacuole volume ( $\mu\text{m}^3$ )	Average vacuole surface area ( $\mu\text{m}^2$ )
W303A (this study)	30-175	9.0 $\pm$ 5.3	26.0 $\pm$ 11.5
BY4741 (this study)	30-140	5.3 $\pm$ 3.1	20.4 $\pm$ 9.5
DDY904 (Larabell <i>et al.</i> )	10-100	1-6*	5-25*