

**Table 2.** Lysosomal Burden Per Cell in Cubic Micrometer for pH 7.4 (Control), pH 6.8, and pH 6.4 in an HMEC Line and Three Breast Cancer Cell Lines Representing Different Stages of Breast Carcinogenesis.

Cell Line	Lysosomal Burden [ $\mu\text{m}^3/\text{cell}$ ] (Number of Images)		
	pH 7.4 ( <i>n</i> )	pH 6.8 ( <i>n</i> )	pH 6.4 ( <i>n</i> )
MCF-12A	16.8 (34)	6.0 (23)	3.7 (10)
MCF-7	28.9 (10)	17.0 (4)	15.4 (9)
MDA-MB-231	11.2 (31)	9.9 (27)	18.5 (31)
MDA-MB-435	11.6 (14)	7.3 (5)	14.5 (9)

Data were obtained by analyzing *n* images from four different stainings per pH and cell line using our in-house software. Lysosomal burden was calculated from the median of the lysosomal diameter distributions (Figure 5) by assuming a spherical volume ( $4/3\pi r^3$ ) and the median of the number of lysosomes per cell (Figure 6) to give the total volume of lysosomes per cell ( $\mu\text{m}^3/\text{cell}$ ).