

Table 1. A Summary of the Relationship between Nuclear DNA Quantity and Cell Size for Epidermal Pavement Cells in Arabidopsis

Cells	Nuclear Genome Size	No. of Cells (% of Total)	Avg. Cell Perimeter in μm (Range)	Avg. Cell Area in μm^2 (Range)	Avg. Surface Area/Cell in μm^2 (Range) ^a	Avg. Cell Volume in μm^3 (Range) ^b
Stem cells (<i>n</i> = 92)	2C	18 (20%)	138 (79–193)	614 (244–1070)	2887 (1446–4346)	7368 (2928–12840)
	4C	39 (42%)	392 (137–612)	2471 (575–4056)	9650 (2794–15144)	29652 (6900–48672)
	8C	35 (38%)	687 (379–1299)	5254 (2822–9513)	18751 (11416–34614)	63048 (33864–114156)
Leaf cells (<i>n</i> = 110)	2C	40 (36%)	96 (58–200)	480 (154–1331)	1818 (888–4662)	4800 (1540–13310)
	4C	53 (48%)	199 (101–350)	1495 (584–3053)	4949 (2178–9260)	14950 (5840–30530)
	8C	16 (15%)	372 (251–451)	3794 (2116–4645)	11306 (6742–13474)	37940 (21160–46450)
	16C	1 (1%)	642	8153	22726	81530

^a Total cell surface area was calculated for each cell as the sum of two times the measured cell area plus the perimeter times the cell depth (determined from microscopic observation).

^b Cell volume was calculated for each cell as the cell area times the cell depth.