

TABLE 2. Length, Width, and Volume of Isolated Cardiac Myocytes from 12-week-old Fischer-344, WKY and SHR Rats*

	Fischer-344			WKY			SHR		
	LV endo	LV epi	RV	LV endo	LV epi	RV	LV endo	LV epi	RV
% double nucleated cells	87 ± 2	87 ± 1	87 ± 2	86 ± 1	86 ± 2	85 ± 2	84 ± 4	85 ± 3	86 ± 1
Combined single and double nucleated cells									
Length (μm)	98 ± 3	97 ± 2	91 ± 4	93 ± 3	96 ± 4	93 ± 4	105 ± 5	109 ± 3	98 ± 5
Width (μm)	19.5 ± 0.3	19.1 ± 0.3	18.2 ± 0.4	19.6 ± 0.2	18.6 ± 0.3	17.3 ± 0.4	21.5 ± 0.6	20.6 ± 0.4	18.1 ± 0.4
Volume × 10 ⁻³ , (μm ³)	30.6 ± 0.6	29.5 ± 1.0	24.8 ± 1.1	29.8 ± 0.9	27.7 ± 2.0	23.1 ± 1.4	40.5 ± 1.6	39.2 ± 2.2	26.8 ± 1.6
Single nucleated cells									
Length (μm)	71 ± 2	73 ± 2	68 ± 3	70 ± 2	72 ± 3	69 ± 2	79 ± 3	83 ± 4	72 ± 3
Width (μm)	17.4 ± 0.5	16.5 ± 0.6	16.2 ± 0.3	16.5 ± 0.4	16.3 ± 0.3	15.8 ± 0.2	19.2 ± 0.8	17.8 ± 0.6	16.2 ± 0.3
Volume × 10 ⁻³ , (μm ³)	17.8 ± 0.9	16.3 ± 0.9	14.4 ± 1.0	16.4 ± 0.8	15.7 ± 1.0	14.1 ± 0.7	25.6 ± 2.4	23.0 ± 2.3	16.2 ± 1.2
Double nucleated cells									
Length (μm)	102 ± 3	100 ± 2	95 ± 4	96 ± 4	99 ± 4	97 ± 4	107 ± 5	112 ± 3	101 ± 5
Width (μm)	19.8 ± 0.3	19.4 ± 0.3	18.5 ± 0.5	20.1 ± 0.2	18.9 ± 0.4	17.6 ± 0.4	21.7 ± 0.6	21.0 ± 0.4	18.3 ± 0.4
Volume × 10 ⁻³ , (μm ³)	31.8 ± 0.3	31.2 ± 1.1	26.4 ± 1.4	31.4 ± 1.1	29.2 ± 2.2	24.6 ± 1.4	41.3 ± 1.6	41.1 ± 2.1	28.1 ± 1.6
Ratio of volume double/single nucleated cells	1.79	1.91	1.84	1.92	1.85	1.75	1.61	1.79	1.74

*Values represent mean ± SEM of six animals in each group. WKY = Wistar-Kyoto rats; SHR = spontaneously hypertensive rats; LV endo = left ventricular endocardium; LV epi = left ventricular epicardium; RV = right ventricle.