

**Table 2. Hippocampal CA1 spine dimensions and correlations with synaptic (PSD) area**

Feature	<i>N</i>	Mean $\pm$ SD	Range (low, high)	<i>r</i>	<i>p</i>
Synaptic PSD area ( $\mu\text{m}^2$ )	100	0.069 $\pm$ 0.08	0.008, 0.54	–	–
Spine volume ( $\mu\text{m}^3$ )	100	0.062 $\pm$ 0.08	0.004, 0.56	+0.88	<0.0005
Head	100	0.051 $\pm$ 0.07	0.003, 0.55	+0.88	<0.0005
Neck <sup>a</sup>	92	0.012 $\pm$ 0.01	0.0004, 0.07	+0.32	<0.005
Spine surface area ( $\mu\text{m}^2$ )	100	0.83 $\pm$ 0.63	0.13, 4.38	+0.83	<0.0005
Head	100	0.61 $\pm$ 0.57	0.10, 4.24	+0.88	<0.0005
Neck	92	0.24 $\pm$ 0.17	0.02, 0.89	–0.11	ns
Axonal varicosity ( $\mu\text{m}^3$ )	58	0.11 $\pm$ 0.11	0.005, 0.76	+0.87	<0.0005
Vesicle number	58	223 $\pm$ 245	3, 1606	+0.90	<0.0005
Spine length ( $\mu\text{m}$ )	100	0.95 $\pm$ 0.42	0.24, 2.46	+0.23	<0.01
To PSD	100	0.82 $\pm$ 0.36	0.16, 2.13	–0.002	ns
Head	100	0.53 $\pm$ 0.28	0.15, 1.89	+0.48	<0.0005
Neck	92	0.45 $\pm$ 0.29	0.08, 1.58	–0.15	ns
Neck diameter ( $\mu\text{m}$ )	92	0.15 $\pm$ 0.06	0.038, 0.46	–0.03	ns

*N*, number of “features” completely contained within these 7 photographic series; *r*, correlation with synaptic PSD area; *p*, probability that *r* is not different from zero; ns, *r* is not significantly different from zero.

<sup>a</sup> Eight stubby dendritic spines were treated as “heads” because there were no constrictions (“necks”) along their lengths.