

Supplemental Table 1. Properties of *NMDAR sparklets*.

	<i>Mode</i>	<i>Mean ± SD</i>
<i>Amplitude ($\Delta F/F_0$)</i> ¹	1.08	1.15 ± 0.13
<i>Attack time (ms)</i> ²	75	105 ± 67
<i>Decay time (ms)</i> ²	75	150 ± 89
<i>Duration (ms)</i> ²	300 and 500	509 ± 268
<i>Spatial Spread (μm^2)</i> ¹	8	16.85 ± 12.15

¹Total of 1783 events analyzed; ²Total of 509 events analyzed