

**Table 2. Morphology and cable properties of three reconstructed Purkinje cells**

	Cell 1	Cell 2	Cell 3
Soma diameter ( $\mu\text{m}$ )*	26.8	24.4	23.5
Soma perimeter ( $\mu\text{m}$ )	98.2	94.9	80.5
Soma area ( $\mu\text{m}^2$ )	562	505.6	437.3
Total dendritic length ( $\mu\text{m}$ )	10839	8357	8127
Length of spiny dendrites ( $\mu\text{m}$ )**	9588	7288	6618
Average dendritic path length ( $\mu\text{m}$ )†	211	192	208
Total membrane area, without spines ( $\mu\text{m}^2$ )	53617	37751	44602
Cells' volume, without spines ( $\mu\text{m}^3$ )	30119	22435	25197
Number of dendritic terminals	473	420	418
$R_N$ (M $\Omega$ )‡	13.21	23.79	13.88
$\tau_0$ (ms)‡	46.35	61.9	56.8
$L_N$ ‡	1.0	0.71	0.58

\* Average diameter.

\*\* Dendrites with diameter  $< 2.2 \mu\text{m}$ .

† Average path length from soma to each dendritic terminal.

‡ Measured in presence of  $\text{Cs}^+$ .