

Supplemental Figure 3

A

	Control	100mV/mm	200mV/mm
n experiments	7	3	4
n axons	630	321	277
Cathode	42.3 (\pm 16.8)	51.4 (\pm 5.2)	51.1 (\pm 20.8)
Anode	33.9 (\pm 9.3)	36.8 (\pm 6.2)	32.3 (\pm 9.5)
Perpendicular	41.6 (\pm 14.2)	43.0 (\pm 3.4)	42.6 (\pm 23.5)

B

Cathode	Control	100mV/mm	200mV/mm
Control	N/A		
100mV/mm	0.6358	N/A	
200mV/mm	0.5958	0.9997	N/A

Anode	Control	100mV/mm	200mV/mm
Control	N/A		
100mV/mm	0.9516	N/A	
200mV/mm	0.9845	0.9120	N/A

Perpendicular	Control	100mV/mm	200mV/mm
Control	N/A		
100mV/mm	0.9883	N/A	
200mV/mm	0.9936	0.9989	N/A

Figure S3: EF does not affect rate of RGC axon growth. (A) Retinal explant cultures were grown for 18 hours, then exposed to an EF of 100 or 200 mV/mm for 5 hours. Rate of RGC axon growth was assessed by measuring maximum length of observed growth and time to maximal length (see METHODS). No difference in rate of growth was noted in EF-treated axons compared to control cultures. Number of experiments and total axons quantified are listed per condition. Error bars represent SD. (B) P-values from two-way analysis of variance of data from (A) with Tukey's multiple comparisons test.