Supplementary Table 1. Quantitative features of EC neuron dendrites

	Apical Dend Length All Cells (μm)					
	Layer1	Layer2	Layer3	Layer5	Total Length	
EC2 705302	2,220	732	0	0	2,952	
EC2 609291	6,047	1,059	0	0	7,106	
EC3 60126	4,668	3,416	4,449	0	12,532	
EC3 80604	3,494	2,400	1,159	0	7,052	
EC5 609202	475	95	207	0	776	

Layer occupancy (%)						
Layer 1 Layer 2 Layer 3 Lay						
75.2	24.8	0.0				
85.1	14.9	0.0				
37.2	27.3	35.5				
49.5	34.0	16.4				
61.1	12.2	26.7				

	Bas Dend Length All Cells (µm)					
	Layer1	Layer2	Layer3	Layer5	Total Length	
EC2 705302	0	365	2,503	0	3,276	
EC2 609291	0	602	2,179	0	4,145	
EC3 60126	0	0	10,257	0	10,257	
EC3 80604	0	0	9,642	0	9,642	
EC5 609202	0	0	2,682	9,743	12,424	

L					
Layer 1	Layer 2	Layer 5			
	11.2	76.4			
	14.5	52.6			
		100.0			
		100.0			
		21.6	78.4		

Supplementary Table 2. Quantitative features of EC neuron axons

	Axonal Length All Cells (µm)				
	Layer1	Layer2	Layer3	Layer5	Total Length
EC2 705302	25,498	996	1,607	319	28,419
EC2 609291	18,197	1,158	1,279	269	20,903
EC3 60126	2,480	3,611	7,810	5,356	19,257
EC3 80604	1,552	4,167	8,097	5,994	19,810
EC5 609202	0	538	29,387	58,307	88,233

Layer occupancy (%)						
Layer 1	Layer 1 Layer 2 Layer 3					
89.7	3.5	5.7	1.1			
87.1	5.5	6.1	1.3			
12.9	18.8	40.6	27.8			
7.8	21.0	40.9	30.3			
	0.6	33.3	66.1			

	Boutons total				
	Layer 1	Layer 2	Layer 3	Layer 5	Total
EC2 705302	200,666	9,538	13,724		223,929
EC2 609291	161,953	9,031	12,175		183,159
EC3 60126	27,506	24,778	36,267	15,260	103,810
EC3 80604	17,666	35,963	70,769	69,886	194,283
EC5 609202	259	4,768	252,104	400,262	657,394