

Supplementary Material

Brain Structure and Function

Postnatal Development of Dendritic Structure of Layer III Pyramidal Neurons in the Medial Prefrontal Cortex of Marmoset

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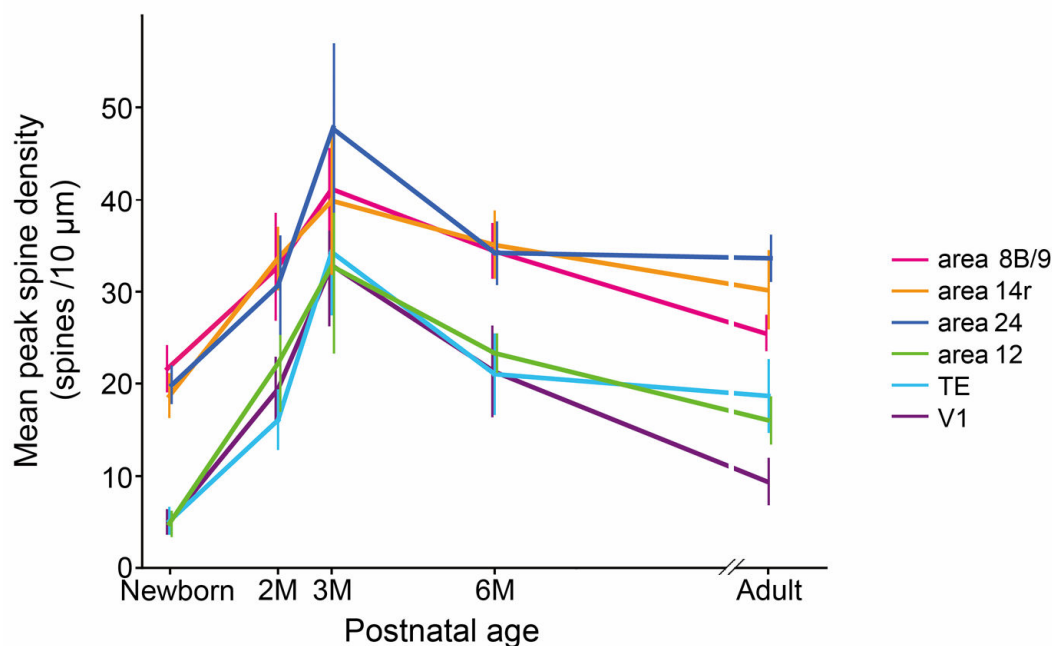


Fig. S1 Peak spine density (spine number/10 μm) of layer-III pyramidal cells in areas 8B/9, 14r, 24, 12, TE, and V1 at Newborn, 2M, 3M, 6M, and Adult. The data of areas 12, TE, and V1 are derived from Oga *et al.* (2013).

Table S1. Summary of post-hoc pairwise comparisons of peak spine density of pyramidal cells in areas 8B/9, 14r, 24, 12, TE, and V1 at Newborn, 2M, 3M, 6M, and Adult.

		mPFC areas			area 12	TE	V1	
		area 8B/9	area 14r	area 24				
Newborn One-way ANOVA, $F_5 = 327.28$; $p < 0.0001$	mPFC areas	area 8B/9	$p = 0.0002$	—	***	***	***	
		area 14r		—	***	***	***	
		area 24			***	***	***	
		area 12				—	—	
		TE						—
		V1						
2M One-way ANOVA, $F_5 = 42.56$; $p < 0.0001$	mPFC areas	area 8B/9	—	—	***	***	***	
		area 14r		—	***	***	***	
		area 24			***	***	***	
		area 12				***	—	
		TE						—
		V1						
3M One-way ANOVA, $F_5 = 12.63$; $p < 0.0001$	mPFC areas	area 8B/9	—	$p = 0.0062$	$p = 0.0005$	$p = 0.0049$	$p = 0.0006$	
		area 14r		$p = 0.0012$	$p = 0.0032$	$p = 0.0217$	$p = 0.0036$	
		area 24			***	***	***	
		area 12				—	—	
		TE						—
		V1						
6M One-way ANOVA, $F_5 = 66.49$; $p < 0.0001$	mPFC areas	area 8B/9	—	—	***	***	***	
		area 14r		—	***	***	***	
		area 24			***	***	***	
		area 12				—	—	
		TE						—
		V1						
Adult One-way ANOVA, $F_5 = 126.15$; $p < 0.0001$	mPFC areas	area 8B/9	$p = 0.0008$	***	***	***	***	
		area 14r		—	***	***	***	
		area 24			***	***	***	
		area 12				—	***	
		TE						***
		V1						

Statistical significance was determined as $p < 0.05$. *** indicates $p < 0.0001$.

Note that the peak spine density in the mPFC areas (areas 8B/9, 14r, and 24) are significantly higher than that in areas 12, TE, and V1 at Newborn, 2M, 3M, 6M, and Adult (see Discussion).

The data of areas 12, TE, and V1 are derived from Oga *et al.* (2013).