
Supplementary information

Modular strategy for development of the hierarchical visual network in mice

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Supplementary Tables

Supplementary Table 1: *P* values of post hoc Tukey HSD test in **Fig. 1h**.

	P5	P8	P11	P14
V1-HVA vs HVA-HVA	7.15×10^{-8}	4.62×10^{-6}	0.0012	0.91
Two-way ANOVA, Groups: V1-HVA and HVA-HVA, Ages: P5, P8, P11, and P14. Group: $F_{(1,56)} = 91.84, P = 2.09 \times 10^{-13}$ Age: $F_{(3,56)} = 110.89, P = 1.55 \times 10^{-23}$ Across animals (n = 8 mice at each age)				

Supplementary Table 2: *P* values of post hoc Tukey HSD test in **Fig. 1i**.

	P5	P8	P11	P14
Vent-Vent vs Vent-Dors	0.0002	0.0011	0.042	0.99
Dors-Dors vs Vent-Dors	0.27	0.20	0.27	0.92
Vent-Vent vs Dors-Dors	0.47	0.85	0.99	1.00
Two-way ANOVA, Groups: Vent-Vent, Dors-Dors, and Vent-Dors. Ages: P5, P8, P11, and P14. Group: $F_{(1,56)} = 91.84, P = 2.09 \times 10^{-13}$ Age: $F_{(3,56)} = 110.89, P = 1.55 \times 10^{-23}$ Across animals (n = 8 mice at each age)				

Supplementary Table 3: *P* values of post hoc Tukey HSD test in **Extended Data Fig. 5f**.

P5 vs P9–10	P5 vs P13–14	P9–10 vs P13–14
0.0763	0.0003	0.0225
One-way ANOVA, Ages: P5, P9-10, and P13-14. $F_{(2,12)} = 15.44, P = 4.80 \times 10^{-4}$ Across animals (n = 5 mice at each age)		

Supplementary Table 4: *P* values of post hoc Tukey HSD test in Extended Data Fig. 5i.

	P5 vs P9–10	P5 vs P13–14	P9–10 vs P13–14
V1 => LM	0.0242	0.0022	0.4684
One-way ANOVA , Ages: P5, P9-10, and P13-14. V1 =>LM: $F_{(2,15)} = 9.25$, $P = 0.0024$ Across animals (n = 6 mice at each age)			

Supplementary Table 5: *P* values of post hoc Tukey HSD test in Extended Data Fig. 5j.

	P5 vs P9–10	P5 vs P13–14	P9–10 vs P13–14
V1 => AL	0.4193	0.0038	0.0491
One-way ANOVA , Ages: P5, P9-10, and P13-14. V1 => AL: $F_{(2,15)} = 7.90$, $P = 0.0045$ Across animals (n = 6 mice at each age)			

Supplementary Table 6: *P* values of post hoc Tukey HSD test in Extended Data Fig. 5k.

	P5 vs P9–10	P5 vs P13–14	P9–10 vs P13–14
V1 => PM	Not significant in ANOVA.		
One-way ANOVA , Ages: P5, P9-10, and P13-14. V1 => PM: $F_{(2,15)} = 1.18, P = 0.3341$ Across animals (n = 6 mice at each age)			

Supplementary Table 7: *P* values of post hoc Tukey HSD test in Fig. 4l.

V1-HVA vs Vent-Dors	V1-HVA vs Vent-Vent	V1-HVA vs Dors-Dors	Vent-Vent vs Vent-Dors	Dors-Dors vs Vent-Dors	Vent-Vent vs Dors-Dors
0.0020	4.57×10^{-7}	5.53×10^{-7}	0.0010	0.0014	1.00
One-way ANOVA, Groups: V1-HVA, Vent-Vent, Dors-Dors, and Vent-Dors. $F_{(3,16)} = 38.75$, $P = 1.45 \times 10^{-7}$ Across animals (n = 5 mice at P5).					