

Supplemental Table 1: Morphological properties of young and mature dentate gyrus basket cells (BCs) in GAD67-GFP-expressing mice

dendrites	age (d)	cells (n)	prim. dendrites	branch points	tot length (μm)	membrane surface area^a (μm²)	dendritic area^b (μm²)
young	6-10	4	4.2 ± 0.8	29 ± 1.8	1521 ± 298*	4907.5 ± 634.2*	1966 ± 634**
mature	19-21	5	5.8 ± 0.8	48 ± 8	5387 ± 1015	14286.6 ± 3689	30313 ± 5718

axon	age (d)	cells (n)	branch points	tot length (μm)
young	6-10	4	92 ± 56.8**	3871 ± 1137***
mature	19-21	5	501 ± 76	23522 ± 2971

Supplemental Table 2: Functional properties of GABAergic transmission at basket cell (BC)-BC and BC- granule cell (GC) synapses in the dentate gyrus of GAD67-GFP-expressing mice during postnatal development

BC-BC	age (d)	pairs (n)	latency (ms) ^c	CV of latency ^d	20-80% RT (ms) ^c	peak amp. (pA) ^{c,e}	τ_w (ms) ^c	failures (%) ^d
young	6 to 10	4	1.3 ± 0.06** (1.1 - 3)	0.2 ± 0.03** (0.17 - 0.2)	0.5 ± 0.06*** (0.4 - 0.6)	27 ± 5** (16 - 41)	7.5 ± 1.5*** (3 - 11)	32 ± 11* (8 - 62)
early mature	11 to 17	7	1.2 ± 0.3 (0.4 - 2)	0.3 ± 0.04** (0.1 - 0.5)	0.5 ± 0.04*** (0.4 - 0.6)	44 ± 17* (10 - 146)	4.9 ± 0.6** (2 - 7)	17 ± 8 (0 - 55)
late mature	18 to 25	7	0.9 ± 0.1 (0.6 - 1)	0.1 ± 0.02 (0.08 - 0.2)	0.24 ± 0.01 (0.2 - 0.3)	104 ± 24 (14 - 170)	2 ± 0.2 (1 - 3)	4.5 ± 3 (0 - 19)
BC-GC	age (d)	pairs (n)	latency (ms) ^c	CV of latency ^d	20-80% RT (ms) ^c	peak amp. (pA) ^{c,e}	τ_w (ms) ^c	failures (%) ^d
young	6 to 10	11	1.5 ± 0.3* (0.9 - 2.1)	0.3 ± 0.05** (0.1 - 0.6)	0.5 ± 0.1* (0.2 - 1.4)	37 ± 19** (8 - 170)	8.8 ± 1.4*** (5 - 17)	42 ± 5*** (8 - 60)
early mature	11 to 17	8	0.9 ± 0.1 (0.6 - 1.6)	0.2 ± 0.06* (0.1 - 0.4)	0.33 ± 0.04 (0.2 - 0.6)	76 ± 19 (8 - 140)	7.8 ± 0.9** (3 - 15)	9 ± 5 (0 - 40)
late mature	18 to 25	10	0.9 ± 0.1 (0.5 - 1.2)	0.1 ± 0.01 (0.07 - 0.2)	0.26 ± 0.02 (0.1 - 0.4)	148 ± 34 (40 - 338)	4.4 ± 0.5 (2 - 7)	2 ± 1.8 (0 - 18)

Values indicate mean, SEM, and range in parentheses.

Supplemental Table 1, all data are from reconstructed BCs. Supplemental Table 2, all data are from morphologically identified BC-BC and BC-GC pairs.

^a Membrane surface area of the total dendritic tree.

^b Values were determined from a two-dimensional contour drawn around the dendritic tree (Dumitriu et al., 2007).

^c Values were determined from average unitary IPSCs.

^d Values were determined from single traces.

^e Failures are included.

* P < 0.05; ** P < 0.01; *** P < 0.005.

Dumitriu D, Cossart R, Huang J, Yuste R (2007) Correlation between axonal morphologies and synaptic input kinetics of interneurons from mouse visual cortex. *Cereb Cortex* 17:81-91.