
Adult-born dentate granule cells promote hippocampal population sparsity

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Adult-born dentate granule cells promote hippocampal population sparsity

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Supplementary Information

Supplementary Table 1

Group	Strain / genotype	Viruses injected	Testing/recording window (wpi)	# Mice
abDGC::ChR2	Nestin-cre B6.Cg-Tg(Nes-cre)1Kln/J	AAV-EF1a-DIO-hChR2(E123T/T159C)-EYFP	4-7	6
abDGC::ChR2	C57BL6/J	(1) MMLV-pMX-T2A-Cre-mCherry (2) AAV-EF1a-DIO-hChR2(E123T/T159C)-EYFP	4-7	2
c-fos ^{DG} ::ChR2	c-fos tTA	(1) pAAV-TRE3G-FLAG-Cre (2) AAV-EF1a-DIO-hChR2(E123T/T159C)-EYFP	n/a	3
abDGC::ChR2	C57BL6/J	(1) MMLV-pMX-T2A-Cre-mCherry (2) AAV-EF1a-DIO-hChR2(E123T/T159C)-EYFP	9-12	3
abDGC::ArchT	C57BL6/J	(1) MMLV-pMX-T2A-Cre-mCherry (2) AAV-CAG-Flex-ArchT-GFP (UNC AV6222b)	4-7	4
abDGC::ArchT	C57BL6/J	(1) MMLV-pMX-T2A-Cre-mCherry (2) AAV-CAG-Flex-ArchT-GFP (UNC AV6222b)	9-12	2
abDGC::GFP	C57BL6/J	(1) MMLV-pMX-T2A-Cre-mCherry (2) AAV-CAG-Flex-GFP (UNC AV4530B)	n/a	2
Grm2 ^{DG} ::ArchT	Tg(Grm2-cre) MR90Gsat/Mmucd	AAV-CAG-Flex-ArchT-GFP (UNC AV6222b)	n/a	4

Supplementary Table 2

Figure	# sessions	# mice	# Principal Cell used in analyses			
			abDGC	DG	CA3	CA1
Fig. 1f,h	62	8	33 (recorded in 16/62 sessions) Mean = 4.1 abDGCs per mouse	887	n/a	n/a
Fig. 2d	16	8	33	276	43	266
Fig. 2g	52	8	n/a	197	21	263
Fig. 3c	34	3	n/a	7	12	385
Fig. 4c	43	3	n/a	160	102	463
Fig. 4d	62 (abDGC::ArchT 4-7wpi)	8	n/a	883	195	741
	43 (abDGC::ArchT 9-12 wpi)	3	n/a	160	102	463
Fig. 5d,e	34 (abDGC::GFP)	2	n/a	147	70	124
	54 (abDGC::ArchT4-7wpi)	4	n/a	219	290	437
	44 (abDGC::ArchT 9-12wpi)	2	n/a	131	56	213