

Publication	Publication year	Species	Subspecies	Brain region	Cell type(s)	Age groups
Abbott et al.	1997	Rat	Long-Evans	Neocortex, visual cortex	L4 spiny neuron-to-L2/3 pyramidal cell	P17-adult
Ali and Nelson	2005	Rat	Sprague-Dawley	Neocortex, motor cortex	Pyramid-to-FS interneuron, Pyramid-to-BF interneuron	P17-P22
Angulo et al.	1999	Rat	Wistar	Neocortex, somatosensory cortex	Pyramid-to-FS interneuron	P21/P35
Bark et al.	2004	Mice	SNAP-25a and SNAP25b mutants	Hippocampus	CA1 pyramid	P21-P25
Bender and Feldman	2003	Rat		Neocortex, somatosensory cortex, Barrel cortex	L4 spiny neurons	P6-P7/P8-P11/P14-P26
Berton et al.	1997	Rat		Neocortex	Layer 2/3 neurons Layer 4 neurons Layer 5 neurons	P0/P4-P6/P13-P15/P20/Adult
Blue and Parnavelas	1983a	Rat	Sprague-Dawley	Neocortex, visual cortex		P0/P2/P4/P6/P8/P10/P12/P14/P20/P28/P90
Blue and Parnavelas	1983b	Rat	Sprague-Dawley	Neocortex, visual cortex		P0/P2/P4/P6/P8/P10/P12/P14/P20/P28/P90
Lu et al.	2006	Mice	C57BL/6 <i>Barrelless (C57BL/6-Adcv1brl)</i>	Neocortex, somatosensory cortex, Barrel cortex	L4 spiny neurons, thalamocortical synapse (extracellular stimulation)	P4-P6/P7-P11
Brill and Huguenard	2008	Rat	Sprague-Dawley	Neocortex, somatosensory cortex	L2/3 pyramidal cell, L5 pyramidal cell,	P6-P7/P8-P12/P13-P14/P16-P40
Bureau et al.	2004	Rat	Sprague-Dawley	Neocortex, somatosensory cortex, Barrel cortex	L4 spiny neurons	P6-P16 (P8/P12/P16)
Carmignoto and Vicini	1992	Rat	Sprague-Dawley	Neocortex, occipital cortex	L4 spiny neurons	P12/P35; P25 after dark rearing
Celio	1990	Rat	Long—Evans (1) Sprague—Dawley (4) ZUR—Siv (20) Wistar (66)	Brain, Spinal cord		Adult
Choi and Lovinger	1997	Rat	Sprague-Dawley	Striatum	Medium spiny neurons, corticostriatal stimulation (extracellular)	P10-P26
Corlewet al.	2007	Mice	C57BL/6	Neocortex, visual cortex	L4 spiny neuron-to-L2/3 pyramidal cell	P7-P11/P13-P20/P23-P30/P72-P90
De Felipe et al.	1997	Mice	C57BL/6	Neocortex, somatosensory cortex, Barrel cortex		P4/P6/P8/P11/P16/P32/Adult
De Paola et al.	2006	Mice	C57BL/6 <i>GFP—expressing</i>	Neocortex	Axons in Layer 1	> P90
Dyson and Jones	1980	Rat		Neocortex, occipital cortex		P15/P20/P28/P75/P224
Felmy and Schneeggenburger	2004	Rat/ ice	M Wistar / C57BL/6	Brainstem	Calyx of Held	P6/P14/P21/P31

Finnerty et al.	1999	Rat		Neocortex, somatosensory cortex, Barrel cortex	L2/3 pyramidal cell, L4—L2/3 pathway (extracellular stimulation)	P21-P25 (after deprivation of 10 days!)
Flint et al.	1997	Rat		Neocortex, somatosensory cortex	L2/3 pyramidal cell	P4-P5/P8-P9
Fontanez and Porter	2006	Mice		Neocortex, somatosensory cortex, Barrel cortex	L4 spiny neurons, L4 interneurons	P13-P21
Frick et al.	2007	Rat	Wistar	Neocortex, somatosensory cortex	L5A pyramid-to-L5A pyramid	P14-P16/P17-P20/P24-P29
Gao et al.	2001	Ferret		Neocortex, medial prefrontal cortex	L5 pyramid-to-L5 pyramid	1.5 - 2 month
Gonchar	2007	Mice	C57BL/6	Neocortex, visual cortex	Neocortical GABAergic interneurons	P0/P5/P13/P16/P33/P150/P300
Hanganu	2002	Rat	Wistar	Neocortex, somatosensory cortex	Subplate neurons	P0-P3
Hardingham et al.	2007	Rat	Sprague-Dawley	Neocortex, visual cortex	L2/3 pyramid-to-L2/3 pyramid	P19-P27
Helmstaedter et al.	2008	Rat	Wistar	Neocortex, somatosensory cortex, Barrel cortex	L4 spiny neurons-to-L2/3 interneurons	P20-P29
Holtmaat et al.	2005	Mice	C57BL/6 GFP—expressing	Neocortex, somatosensory cortex, Barrel cortex	L5B pyramidal cells	adult: 2-5 month
Hsia et al.	1998	Rat	Sprague-Dawley	Hippocampus	CA3-to-CA1 pyramid (extracellular stimulation)	P4-P6/P8-P13/P16-P19/2-3 months/ up to 2 years
Iwasaki and Takahashi	2001	Rat	Wistar	Brainstem	Calyx of Held	P7/P10/P14
Jia et al.	2006	Rat	Wistar	Neocortex,	LGN input (extracellular	P20/P30/>P60
Katz and Miledi	1968	Frog		Sartorius muscle		
Koester and Johnston	2005	Rat	Wistar	Neocortex, somatosensory cortex	L2/3 pyramid-to-L2/3 pyramid, L2/3 pyramid- to-bitufed interneuron L2/3 pyramid-to- multipolar interneuron	P12-P16
Kozloski et al.	2001	Mice	C57BL/6	Neocortex, visual cortex	corticotectal L5 pyramid—to—L5 pyramid	P14-P16
Kumar and Huguenard	2001	Rat	Sprague-Dawley	Neocortex, granular frontal cortex	corticotectal L5 pyramid—to—L5 interneuron L5 pyramidal cell (callosal connections)	P13-P15/P16-P21
Kumar et al.	2002	Rat	Sprague-Dawley	Neocortex, granular frontal cortex	L5 pyramidal cell	P13-P15/P16-P21
Levy et al.	2006	Rat	Wistar	Neocortex, somatosensory cortex	L2/3 pyramid-to-L2/3 FS interneuron, L2/3 pyramid-to-L2/3 LTS interneuron	P10-P26
Levy et al.	2008	Rat	Wistar	Neocortex, somatosensory cortex	L2/3 pyramid-to-L2/3 FS interneuron, L2/3 pyramid-to-L2/3 LTS interneuron	P11-P26
Markram and Tsodyks	1996	Rat	Wistar	Neocortex, somatosensory cortex	L5 pyramid-to-L5 pyramid	P13-P15
Markram et al.	1998	Rat	Wistar	Neocortex,	L5 pyramid-to-L5 pyramid	P13-P15
Micheva and Beaulieu	1996	Rat	Long-Evans			P5/P10/P15/P20/P30/P60
Mori-Kawakami et al.	2003	Mice	CD-1 (ICR)	Hippocampus	Mossy fibre-CA3 pyramid	P21-P69 (3 weeks/9 weeks)

Mozhayeva et al.,	2002	Rat/ice	M Sprague-Dawley	Hippocampus (culture)	CA3 pyramid-DG	P1-P2, then 5/6/7/10/20 days <i>in vitro</i>
Oswald and Reyes	2008	Mice	Swiss Webster	Neocortex,	L2/3 pyramidal cell	P10-P14/P15-P18/P19-P29
Pouzat and Hestrin	1997	Rat	Wistar	Cerebellum	Basket/stellate interneuron-to-Purkinje cell	P11-P15/P26-P31
Radnikow et al.	2002	Rat	Wistar	Neocortex,	Cajal-Retzius cell (Layer 1 input,	P5-P11
Radnikow et al.	2009	Rat	Wistar	somatosensory cortex	extracellular stimulation)	
Ramoal and Sur	1996	Rat/	Sprague-Dawley	Neocortex,	L4 spiny neuron-to-L4 spiny neuron	P4-P6/P8-P10/P12-P15/P18-P28
Reyes and Sakmann	1999	Ferret	Wistar	somatosensory cortex	'cortical neurons'	P5-P47
Reyes et al.	1998	Rat	Wistar	Neocortex,	visual cortex	P30-P50
Rozov and Burnashev	1999	Rat	Wistar	Neocortex,	L5 pyramid-to-L5 pyramid	P14/P28
Rozov et al.	2001	Rat	Wistar	somatosensory cortex	L5 pyramid-to-L5 pyramid	P13-P15
Scanziani et al.	1998	Rat	Wistar	Neocortex,	L2/3 pyramid-to-bitufed interneuron	P14-P15
Schulz et al.	2004	Rat	Wistar	somatosensory cortex	L2/3 pyramid-to-multipolar interneuron	
Seamans et al.	2001	Rat	Sprague-Dawley	Hippocampus	CA3 pyramid-to-CA3 pyramid	P20-P30
Sheng et al.	1994	Rat	Long—Evans	Hippocampus (culture)	CA1 pyramid	P7, then 7 days <i>in vitro</i>
Shimohama et al.	1998	Rat	Wistar	Neocortex,	L5 pyramidal cell (extracellular stimulation)	P14-P20
Shin et al.	2005	Rat	Sprague-Dawley	prefrontal cortex		P1/P7/P10/P12/18/P21/P24/P27/P34/P53
Sjöström et al.	2007	Rat	Long-Evans	Neocortex	L5 pyramidal cell	E19/P7/P14/P28/24 weeks/48 weeks/96 weeks
Stocca and Vicini	1998	Rat	Sprague-Dawley	Neocortex,	L5 pyramid-to-L5 pyramid	P12-P14/P16-P20
Taschenberger and von Gersdorff	2000	Rat	Sprague-Dawley	visual cortex	L5 pyramidal cell	P14-P21
Thomson	1997	Rat	Sprague-Dawley	Brainstem	Calyx of Held	P3-P5/P7-P8/P13-P15
Trachtenberg et al.	2002	Mice	C57BL/6	Neocortex,	L3 P-to-L3 pyramid	P5-P7/P12-P14
Tsodyks and Markram	1997	Rat	Wistar	somatosensory cortex,	L5 BF pyramid—to—L5 pyramid	
Wasling et al.	2004	Rat	Wistar	visual cortex,	L5 RS pyramid—to—L5 pyramid	
Xie et al.	2007	Rat	Sprague-Dawley	motor cortex	L5B pyramidal cells	P34-P74
Zhang	2000	Rat	Sprague-Dawley	Neocortex,	L5 pyramid-to-L5 pyramid	P13-P15
Zuo et al.	2005	Mice	YFP—expressing L5 pyramids	somatosensory cortex,	CA3-to-CA1 pyramid (extracellular stimulation)	P3-P27
				Barrel cortex	L5 pyramidal cell	P0-P3, then 12-15 days <i>in vitro</i>
						P1-P36
						1-6 month

E=embryonic day; P=postnatal day;
age groups used are separated by '/'