

Online resource 6: Linear mixed effect model analysis of cresyl-positive cells quantifications

a. Comparison of ipsilateral versus contralateral sides for each experimental group and delay.

[^] p<0.05, ^{^^} p<0.01, ^{^^^} p< 0.001. M. estim. = Model estimate

Delay	Cell type	Linear mixed effect model	Ctl	mMs	HuPFFs	mPFFs
6 mo	All	M. Estim.	0.1273718	0.0932906	-0.0660213	-0.0457503
		SE	0.1048393	0.0813596	0.0910254	0.0814151
		p-value	0.6707416	0.6707416	0.9186515	0.9186515
	Dark stained	M. Estim.	0.1303246	0.1123022	-0.1992801	-0.0124842
		SE	0.1390759	0.1078551	0.1210392	0.1081838
		p-value	0.9081295	0.9081295	0.7974361	0.9081295
	Light stained	M. Estim.	0.1273563	0.0908026	0.0487940	-0.0652603
		SE	0.1518321	0.1179213	0.1318078	0.1178177
		p-value	0.7710894	0.7710894	0.8128464	0.7728550
18 mo	All	M. Estim.	0.0233055	0.1347899	0.0048061	-0.0301928
		SE	0.1049368	0.0913747	0.0822450	0.1049764
		p-value	0.9419926	0.6707416	0.9534006	0.9419926
	Dark stained	M. Estim.	-0.0645168	0.0877502	0.0236020	-0.0544401
		SE	0.1391695	0.1223140	0.1104617	0.1394721
		p-value	0.9081295	0.9081295	0.9081295	0.9081295
	Light stained	M. Estim.	0.1069331	0.1256423	0.5736342	-0.0139157
		SE	0.1520664	0.1319961	0.1206111	0.1519505
		p-value	0.7710894	0.7710894	0.0000158 ^{^^^}	0.9270315

b. Comparison between experimental groups within same side of the AON and the same delay.
 * p<0.05, ** p<0.01, *** p<0.001 for comparisons to mMs and to Ctl; # p<0.05, ## p<0.01, ### p<0.001 for comparisons between mPFFs and huPFFs. M. estim. = Model estimate

Delay	Cell type	Side	Linear mixed effect model	Ctl/ mMs	Ctl/ huPFFs	Ctl / mPFFs	mMs/ huPFFs	mMs/ mPFFs	huPFFs/ mPFFs
6 mo	All cells	Ipsi-lateral	M. Estim.	0.0317883	0.8894865	0.5869463	-0.8576983	0.5551580	-0.3025402
			SE	0.1845051	0.1930231	0.1845464	0.1695634	0.1598474	0.1696043
			p-value	0.8632101	0.0000244 ***	0.0044109 **	0.0000051 ***	0.0020583 **	0.1276390
		Contra-lateral	M. Estim.	0.0658694	1.0828796	0.7600685	-1.0170102	0.6941990	-0.3228112
			SE	0.1844927	0.1929744	0.1845418	0.1695465	0.1598824	0.1695989
			p-value	0.7210693	0.0000001 ***	0.0001143 ***	0.0000000 ***	0.0000565 ***	0.1139819
	Dark stained	Ipsi-lateral	M. Estim.	-0.0622179	0.8512679	0.4428020	-0.9134858	0.5050199	-0.4084659
			SE	0.3086262	0.3229035	0.3087010	0.2831354	0.2668252	0.2832155
			p-value	0.8402323	0.0502905	0.2596405	0.0150471 *	0.1401547	0.2596405
		Contra-lateral	M. Estim.	-0.0441954	1.1808727	0.5856109	-1.2250681	0.6298063	-0.5952618
			SE	0.3085971	0.3228471	0.3086641	0.2831266	0.2668408	0.2831988
			p-value	0.9047783	0.001527 **	0.0990786	0.0001814 ***	0.0730540	0.0990786
Light stained	Ipsi-lateral	M. Estim.	0.1177756	1.0155376	0.6841849	-0.8977620	0.5664093	-0.3313527	
		SE	0.1864471	0.1950463	0.1865344	0.1713428	0.1615703	0.1714054	
		p-value	0.5755566	0.0000012 ***	0.000587 ***	0.0000012 ***	0.000911 ***	0.0798263	
	Contra-lateral	M. Estim.	0.1543293	1.0940999	0.8768015	-0.9397706	0.7224722	-0.2172985	
		SE	0.1863414	0.1948616	0.1865573	0.1711917	0.1616636	0.1714330	
		p-value	0.5434042	0.0000002 ***	0.0000104 ***	0.0000002 ***	0.0000236 ***	0.4099234	
18 mo	All cells	Ipsi-lateral	M. Estim.	0.4599798	0.3981126	0.1454395	0.0618672	-0.3145402	-0.2526730
			SE	0.1930503	0.1846292	0.2063084	0.1697449	0.1931022	0.1846836
			p-value	0.0412475 *	0.0621234	0.5770008	0.7805517	0.1550077	0.2283578
		Contra-lateral	M. Estim.	0.3484953	0.4166119	0.1989378	-0.0681166	-0.1495575	-0.2176740
			SE	0.1930554	0.1846798	0.2063090	0.1698052	0.1931074	0.1847353
			p-value	0.1218002	0.0577905	0.4465465	0.7210693	0.5263778	0.3580141
	Dark stained	Ipsi-lateral	M. Estim.	0.7901024	0.6920332	0.3837566	0.0980692	-0.4063458	-0.3082766
			SE	0.3229044	0.3088852	0.3449538	0.2834357	0.3223640	0.3083203
			p-value	0.0576425	0.0751906	0.3545718	0.7956454	0.3112235	0.3808550
		Contra-lateral	M. Estim.	0.6378355	0.6039144	0.3736800	0.0339210	-0.2641555	-0.2302345
			SE	0.3230084	0.3088963	0.3449653	0.2835555	0.3224726	0.3083361
			p-value	0.0990786	0.0990786	0.4180533	0.9047783	0.5462939	0.5462939
Light stained	Ipsi-lateral	M. Estim.	0.2382181	0.7460466	-0.0315631	-0.5078285	-0.2697812	-0.7776097	
		SE	0.1950609	0.1870274	0.2084143	0.1719291	0.1949954	0.1869467	
		p-value	0.2663896	0.0001991 ***	0.8796255	0.0053825 **	0.2220048	0.0001276 ###	
	Contra-lateral	M. Estim.	0.2195089	0.2793455	0.0892857	-0.0598366	-0.1302232	-0.1900598	
		SE	0.1950501	0.1869135	0.2084113	0.1717607	0.1949313	0.1867961	
		p-value	0.4464353	0.3240967	0.7275608	0.7275608	0.6049246	0.4633932	

c. Comparison of 6 months versus 18 months delays, within same experimental groups and same side of the brain.

Analyses for each brain regions were performed separately, but are presented in the same table for easier reading. \$ p<0.05, \$\$ p<0.01, \$\$\$ p<0.001. M. estim. = Model estimate

Cell type	Side	Linear mixed effect model	Ctl	mMs	huPFFs	mPFFs
All cells	Ipsi-lateral	M. Estim.	0.6897681	1.1179596	0.1983941	0.2482613
		SE	0.1050046	0.1696019	0.1697091	0.1845937
		p-value	0.0000000 \$\$\$	0.0000000 \$\$\$	0.2770214	0.2766555
	Contra-lateral	M. Estim.	0.7938344	1.0764603	0.1275667	0.2327038
		SE	0.1049088	0.1696201	0.1697314	0.1846134
		p-value	0.0000000 \$\$\$	0.0000000 \$\$\$	0.4523038	0.2766555
Dark cells	Ipsi-lateral	M. Estim.	0.4596734	1.3119937	0.3004387	0.4006280
		SE	0.1392783	0.2831452	0.2834250	0.3081286
		p-value	0.001931 \$\$	0.0000096 \$\$\$	0.3304358	0.2580444
	Contra-lateral	M. Estim.	0.6545148	1.3365457	0.0775566	0.4425839
		SE	0.1392119	0.2832711	0.2834119	0.3081401
		p-value	0.0000096 \$\$\$	0.0000096 \$\$\$	0.7843511	0.2414639
Light cells	Ipsi-lateral	Model estimate	0.8696058	0.9900483	0.6001149	0.1538579
		SE	0.1520737	0.1713408	0.1719170	0.1864867
		p-value	0.0000000 \$\$\$	0.0000000 \$\$\$	0.0007707 \$\$\$	0.5458032
	Contra-lateral	M. Estim.	0.8900290	0.9552086	0.0752746	0.1025133
		SE	0.1518788	0.1712700	0.1716826	0.1865726
		p-value	0.0000000 \$\$\$	0.0000000 \$\$\$	0.6610584	0.6610584