

## Online resource 5: Linear mixed effect model analysis of pser129 quantifications

### a. Comparison of ipsilateral versus contralateral sides, within the same experimental groups and delays post-injection.

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

Brain region	Linear mixed effect model	12 mo			18 mo		
		mMs	HuPFFs	mPFFs	mMs	HuPFFs	mPFFs
OB	M. Estim.	-0.2415421	-2.1282153	-2.4606963	-0.0988964	-1.4449104	2.5365672
	SE	0.6318344	0.6318344	0.7064124	0.7064124	0.6318344	0.8156947
	p-value	0.8426982	0.0022689 ^^	0.0022689 ^^	0.8886615	0.0333069 ^	0.0037455 ^^
AON	M. Estim.	0.2698275	-1.4503223	-1.0137230	-0.4571813	-1.6265008	-0.7691579
	SE	0.4722032	0.4722032	0.4722032	0.5279392	0.4722032	0.6096117
	p-value	0.5677133	0.0063918 ^^	0.0636193	0.4638057	0.0034328 ^^	0.3105755
aPC	M. Estim.	0.1276413	-1.8216912	-1.7025134	0.8088221	-2.0827230	-2.7913161
	SE	0.3923716	0.3923716	0.3923716	0.5065496	0.4530717	0.5849131
	p-value	0.7449487	0.0000086 ^^	0.0000215 ^^	0.1323915	0.0000086 ^^	0.0000086b ^^
pPC	M. Estim.	0.2237275	-2.1453953	-1.8106423	-0.6666596	-3.6460458	-1.8887278
	SE	0.5569773	0.5569773	0.5569773	0.6227195	0.5569773	0.7190546
	p-value	0.6879184	0.0003517 ^^	0.0023013 ^^	0.3412399	0.0000000 ^^	0.0129333 ^
PC	M. Estim.	0.1813210	-1.9837258	-1.7828835	0.0710812	-2.8643844	-2.3400220
	SE	0.3162032	0.3162032	0.3162032	0.3872683	0.3463833	0.4471789
	p-value	0.6796228	0.0000000 ^^	0.0000000 ^^	0.8543703	0.0000000 ^^	0.0000003 ^^
Ent	M. Estim.	0.0461447	-2.3131974	-1.5910613	-0.0927822	-2.6742402	-3.0255354
	SE	0.4498931	0.4498931	0.5029958	0.5029958	0.4498931	0.5808095
	p-value	0.9183058	0.0000005 ^^	0.0023409 ^^	0.9183058	0.0000000 ^^	0.0000005 ^^

**b. Comparison between experimental groups, within same side of the brain and same delay.**

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 for comparisons to mMs; # p<0.05, ## p<0.01, ### p<0.001 for comparisons between mPFFs and huPFFs. M. estim. = Model estimate

Brain region	Side	Linear mixed effect model	12 mo			18 mo		
			huPFFs/ mMs	mPFFs/mMs	huPFFs/mPFFs	huPFFs/ mMs	mPFFs/mMs	huPFFs/mPFFs
OB	Ipsi-lateral	M. estim.	4.9647172	-6.9911420	-2.0264248	2.4860425	-0.0516132	2.4344292
		SE	0.7505855	0.7961162	0.7961162	0.7961162	0.9064182	0.8667015
		p-value	0.000000 ***	0.000000 ***	0.0130988 #	0.0035838 **	0.9545914	0.007458 ##
	Contra-lateral	M. estim.	3.0780440	-4.7719880	-1.6939440	1.1400280	-2.6870770	-1.5470480
		SE	0.7505855	0.7961162	0.7961162	0.7961162	0.9064182	0.8667015
		p-value	0.0001235 ***	0.000000 ***	0.0500355	0.1521474	0.0060635 **	0.0891167
AON	Ipsi-lateral	M. estim.	4.6859919	-5.9153911	-1.2293992	3.0398960	-2.3964439	0.6434521
		SE	0.5596034	0.5596034	0.5596034	0.5935490	0.6757853	0.6461743
		p-value	0.0000000 ***	0.0000000 ***	0.0336321 #	0.0000006 ***	0.0005863 ***	0.3193536
	Contra-lateral	M. estim.	2.9658421	-4.6318407	-1.6659985	1.8705765	-2.0844673	-0.2138908
		SE	0.5596034	0.5596034	0.5596034	0.5935490	0.6757853	0.6461743
		p-value	0.0000003 ***	0.0000000 ***	0.0034918 ##	0.0030583 **	0.0030583 **	0.7406362
aPC	Ipsi-lateral	M. estim.	2.7881870	-4.4508940	-1.6627070	3.1702950	-2.8222260	0.3480690
		SE	0.3870358	0.3870358	0.3870358	0.5329051	0.6067392	0.5801536
		p-value	0.0000000 ***	0.0000000 ***	0.0000209 ###	0.0000000 ***	0.0000049 ***	0.5485328
	Contra-lateral	M. estim.	0.8388548	-2.6207396	-1.7818848	0.2787496	0.7779126	1.0566622
		SE	0.5024278	0.5024278	0.5024278	0.5329051	0.6067392	0.5801536
		p-value	0.1424970	0.0000011 ***	0.0011709 ##	0.6009218	0.2397606	0.1371077
pPC	Ipsi-lateral	M. estim.	2.7532726	-4.2592406	-1.5059680	3.6456037	-3.0675061	0.5780976
		SE	0.5569773	0.5569773	0.5569773	0.5907636	0.6726140	0.6431420
		p-value	0.0000015 ***	0.0000000 ***	0.0082256 ##	0.0000000 ***	0.0000077 ***	0.3687247
	Contra-lateral	M. estim.	0.3841498	-2.2248709	-1.8407210	0.6662176	-1.8454379	-1.1792204
		SE	0.5569773	0.5569773	0.5569773	0.5907636	0.6726140	0.6431420
		p-value	0.4903799	0.0003889 **	0.0028509 ##	0.3113244	0.0121509 ***	0.1000856
PC	Ipsi-lateral	M. estim.	2.7765490	-4.3870097	-1.6104606	3.4079492	-2.9448659	0.4630833
		SE	0.3883009	0.3883009	0.3883009	0.4632686	0.4987108	0.4742004
		p-value	0.0000000 ***	0.0000000 ***	0.0000403 ###	0.0000000 ***	0.0000000 ***	0.3287889
	Contra-lateral	M. estim.	0.6115023	-2.4228052	-1.8113029	0.4724836	-0.5337627	-0.0612791
		SE	0.4367738	0.4367738	0.4367738	0.4632686	0.4987108	0.4742004
		p-value	0.3230007	0.0000002 ***	0.0001011 ###	0.3693361	0.3693361	0.8971787
Ent	Ipsi-lateral	M. estim.	4.3141972	-7.2342055	-2.9200083	4.8852957	-4.2210985	0.6641973
		SE	0.5303450	0.5625158	0.5625158	0.5625158	0.6404524	0.6123896
		p-value	0.0000000 ***	0.0000000 ***	0.0000003 ###	0.0000000 ***	0.0000000 ***	0.2780992
	Contra-lateral	M. estim.	1.9548550	-5.5969990	-3.6421440	2.3038380	-1.2883450	1.0154920
		SE	0.5303450	0.5625158	0.5625158	0.5625158	0.6404524	0.6123896
		p-value	0.0003417 ***	0.0000000 ***	0.0000000 ###	0.0000842 **	0.0531123	0.0972679

**c. Comparison of 12 mo versus 18 mo 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. estimate= Model estimate

Brain region	Side	Linear mixed effect model	mMs	huPFFs	mPFFs
OB	Ipsi-lateral	M. estim.	-1.2572934	1.2213813	5.6822353
		SE	0.7961162	0.7505855	0.9064182
		p-value	0.1714064	0.1714064	0.0000000 \$\$\$
	Contra-lateral	M. estim.	-1.3999392	0.5380763	0.6849719
		SE	0.7961162	0.7505855	0.9064182
		p-value	0.1714064	0.4734510	0.4734510
AON	Ipsi-lateral	M. estim.	-2.3096783	-0.6635824	1.2092689
		SE	0.5935490	0.5596034	0.6461743
		p-value	0.0005982 \$\$\$	0.2828375	0.1225715
	Contra-lateral	M. estim.	-1.5826695	-0.4874039	0.9647038
		SE	0.5935490	0.5596034	0.6461743
		p-value	0.022997 \$	0.3837645	0.2031767
aPC	Ipsi-lateral	M. estim.	1.2148021	0.8326947	2.8434706
		SE	0.4823581	0.4484587	0.5340971
		p-value	0.0235735 \$	0.0760088	0.0000003 \$\$\$
	Contra-lateral	M. estim.	0.5336212	1.0937265	3.9322734
		SE	0.5329051	0.5024278	0.5801536
		p-value	0.3166606	0.0442339 \$	0.0000000 \$\$\$
pPC	Ipsi-lateral	M. estim.	0.5282631	-0.3640680	1.7199976
		SE	0.5907636	0.5569773	0.6431420
		p-value	0.4454554	0.5133375	0.0224611 \$
	Contra-lateral	M. estim.	1.4186502	1.1365825	1.7980831
		SE	0.5907636	0.5569773	0.6431420
		p-value	0.0326664 \$	0.0619320	0.0224611
PC	Ipsi-lateral	M. estim.	0.8658960	0.2344958	2.3080398
		SE	0.4411586	0.4132487	0.4526247
		p-value	0.0596065	0.5704120	0.000001 \$\$\$
	Contra-lateral	M. estim.	0.9761357	1.1151545	2.8651783
		SE	0.4632686	0.4367738	0.4742004
		p-value	0.0526683	0.02135 \$	0.0000000 \$\$\$
Ent	Ipsi-lateral	M. estim.	0.8401741	0.2690756	3.8532811
		SE	0.5625158	0.5303450	0.6404524
		p-value	0.2029200	0.6119026	0.0000000 \$\$\$
	Contra-lateral	M. estim.	0.9791010	0.6301184	5.2877552
		SE	0.5625158	0.5303450	0.6404524
		p-value	0.1635162	0.2817390	0.0000000 \$\$\$

**d. Comparison between quantifications in aPC and pPC**

	<b>aPC vs pPC</b>
M. estim.	0.0426258
SE	0.1344211
p-value	0.7511627