

Appendix 2: Results of two-factorial analysis of variance (2x2 ANOVA) for each gene.

GRIN1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.186E-4	1.186E-4	0.778	0.3882	0.778	0.129
Treatment	1	0.01	0.01	3.707	0.0685	3.707	0.436
Time Point * Treatment	1	0.01	0.01	4.844	0.0397	4.844	0.546
Residual	20	0.03	1.525E-4				

GRIN2A	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.239E-5	1.239E-5	12.855	0.0019	12.855	0.942
Treatment	1	3.961E-6	3.961E-6	4.110	0.0562	4.110	0.476
Time Point * Treatment	1	1.034E-5	1.034E-5	10.725	0.0038	10.725	0.891
Residual	20	1.928E-5	9.638E-7				

GRIN2B	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	4.219E-5	4.219E-5	7.844	0.0110	7.844	0.768
Treatment	1	1.225E-5	1.225E-5	2.277	0.1469	2.277	0.287
Time Point * Treatment	1	4.619E-5	4.619E-5	8.586	0.0083	8.586	0.807
Residual	20	1.076E-4	5.379E-6				

GRIN2C	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.086E-6	1.086E-6	1.124	0.3017	1.124	0.164
Treatment	1	2.453E-6	2.453E-6	2.539	0.1267	2.539	0.315
Time Point * Treatment	1	5.127E-6	5.127E-6	5.307	0.0321	5.307	0.587
Residual	20	1.932E-5	9.660E-7				

GRIN2D	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	5.506E-5	5.506E-5	3.480	0.0776	3.480	0.412
Treatment	1	5.186E-5	5.186E-5	3.227	0.0861	3.227	0.391
Time Point * Treatment	1	4.536E-5	4.536E-5	2.867	0.1068	2.867	0.348
Residual	20	3.006E-4	1.582E-5				

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GRIA1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.230E-6	1.230E-6	1.053	0.3171	1.053	0.157
Treatment	1	2.284E-7	2.284E-7	0.196	0.6631	0.196	0.070
Time Point * Treatment	1	5.122E-6	5.122E-6	4.385	0.0492	4.385	0.503
Residual	20	2.336E-5	1.168E-6				

GRIA2	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.094E-4	1.094E-4	1.198	0.2868	1.198	0.172
Treatment	1	1.199E-4	1.199E-4	1.312	0.2655	1.312	0.184
Time Point * Treatment	1	2.471E-5	2.471E-5	0.270	0.6088	0.270	0.078
Residual	20	0.002	9.139E-5				

GRIA3 flip	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	2.485E-7	2.485E-7	0.510	0.4833	0.510	0.102
Treatment	1	2.485E-7	2.485E-7	0.510	0.4833	0.510	0.102
Time Point * Treatment	1	4.423E-7	4.423E-7	0.908	0.3520	0.908	0.142
Residual	20	9.741E-6	4.871E-7				

GRIA4	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	4.721E-5	4.721E-5	21.533	0.0002	21.533	0.997
Treatment	1	8.736E-6	8.736E-6	3.985	0.0597	3.985	0.464
Time Point * Treatment	1	1.069E-5	1.069E-5	4.878	0.0390	4.878	0.549
Residual	20	4.385E-5	2.192E-6				

GRIK1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	4.256E-5	4.256E-5	7.121	0.0148	7.121	0.724
Treatment	1	6.386E-6	6.386E-6	1.068	0.3136	1.068	0.159
Time Point * Treatment	1	3.169E-5	3.169E-5	5.303	0.0322	5.303	0.586
Residual	20	1.195E-5	5.977E-6				

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GRIK2	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	3.069E-5	3.069E-5	43.469	<.0001	43.469	1.000
Treatment	1	1.561E-6	1.561E-6	2.210	0.1527	2.210	0.280
Time Point * Treatment	1	1.059E-5	1.059E-5	14.995	0.0009	14.995	0.970
Residual	20	1.412E-5	7.060E-7				

GRIK3	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	8.894E-6	8.894E-6	14.481	0.0011	14.481	0.965
Treatment	1	1.659E-6	1.659E-6	2.701	0.1159	2.701	0.332
Time Point * Treatment	1	2.836E-6	2.836E-6	4.618	0.0441	4.618	0.525
Residual	20	1.228E-5	6.142E-7				

GRIK4	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.579E-6	1.579E-6	11.889	0.0025	11.889	0.939
Treatment	1	1.237E-7	1.237E-7	1.021	0.3234	1.021	0.151
Time Point * Treatment	1	1.299E-6	1.299E-6	10.344	0.0043	10.344	0.883
Residual	20	2.481E-6	1.240E-7				

GRIK5	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	2.554E-5	2.554E-5	10.015	0.0049	10.015	0.868
Treatment	1	7.282E-6	7.282E-6	2.855	0.1066	2.855	0.348
Time Point * Treatment	1	7.526E-6	7.526E-6	2.951	0.1013	2.951	0.358
Residual	20	5.101E-5	2.551E-6				

SLC1A3	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	0.007	0.007	16.122	0.0007	16.122	0.979
Treatment	1	3.904E-4	3.904E-4	0.953	0.3407	0.953	0.147
Time Point * Treatment	1	0.002	0.002	4.190	0.0540	4.190	0.484
Residual	20	0.008	4.098E-4				

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VGLUT1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	0.025	0.025	2.968	0.1004	2.968	0.360
Treatment	1	0.037	0.037	4.338	0.0503	4.338	0.499
Time Point * Treatment	1	0.080	0.080	9.451	0.0060	9.451	0.846
Residual	20	0.169	0.008				

VGLUT2	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	2.654E-5	2.654E-5	2.284	0.1463	2.284	0.287
Treatment	1	8.050E-6	8.050E-6	0.693	0.4150	0.693	0.120
Time Point * Treatment	1	5.192E-5	5.192E-5	4.468	0.0473	4.468	0.511
Residual	20	2.324E-4	1.162E-5				

VGLUT3	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.824E-7	1.824E-7	2.178	0.1556	2.178	0.276
Treatment	1	2.667E-10	2.667E-10	0.003	0.9556	0.003	0.050
Time Point * Treatment	1	1.335E-7	1.335E-7	1.594	0.2212	1.594	0.214
Residual	20	1.675E-6	8.374E-8				

SNCG	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	0.003	0.003	4.654	0.0433	4.654	0.528
Treatment	1	0.004	0.004	6.686	0.0177	6.686	0.694
Time Point * Treatment	1	0.002	0.002	3.569	0.0734	3.569	0.422
Residual	20	0.011	0.001				

GFAP	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	6.542E-6	6.542E-6	3.024	0.0974	3.024	0.366
Treatment	1	1.286E-6	1.286E-6	0.595	0.4497	0.595	0.110
Time Point * Treatment	1	9.154E-7	9.154E-7	0.423	0.5228	0.423	0.093
Residual	20	4.327E-5	2.164E-6				

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ADORA1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	9.963E-5	9.963E-5	6.682	0.0177	6.682	0.694
Treatment	1	8.778E-5	8.778E-5	5.887	0.0248	5.887	0.635
Time Point * Treatment	1	4.959E-5	4.959E-5	3.326	0.0832	3.326	0.398
Residual	20	2.982E-4	1.491E-5				

VEGFA	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	4.222E-6	4.222E-6	3.046	0.0963	3.046	0.368
Treatment	1	1.141E-6	1.141E-6	0.823	0.3750	0.823	0.133
Time Point * Treatment	1	1.028E-8	1.028E-8	0.007	0.9322	0.007	0.051
Residual	20	2.772E-5	1.386E-6				

FLT1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	9.638E-5	9.638E-5	7.025	0.0154	7.025	0.717
Treatment	1	3.604E-6	3.604E-6	0.263	0.6139	0.263	0.077
Time Point * Treatment	1	6.654E-6	6.654E-6	0.485	0.4942	0.485	0.099
Residual	20	2.744E-4	1.372E-5				

KDR	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	0.015	0.015	8.110	0.0099	8.110	0.783
Treatment	1	0.003	0.003	1.854	0.1884	1.854	0.241
Time Point * Treatment	1	0.002	0.002	1.100	0.3067	1.100	0.162
Residual	20	0.037	0.002				

EPO	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	5.905E-9	5.905E-9	2.793	0.1103	2.793	0.342
Treatment	1	1.273E-8	1.273E-8	6.023	0.0234	6.023	0.645
Time Point * Treatment	1	1.864E-10	1.864E-10	0.088	0.7696	0.088	0.059
Residual	20	4.228E-8	2.114E-9				

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EPOR	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	7.845E-7	7.845E-7	1.532	0.2302	1.532	0.207
Treatment	1	1.126E-6	1.126E-6	2.199	0.1537	2.199	0.278
Time Point * Treatment	1	3.900E-8	3.900E-8	0.076	0.7854	0.076	0.058
Residual	20	1.024E-5	5.122E-7				

IGF1R	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.235E-4	1.235E-4	1.864	0.1873	1.864	0.234
Treatment	1	2.272E-5	2.272E-5	0.343	0.5647	0.343	0.085
Time Point * Treatment	1	5.601E-6	5.601E-6	0.085	0.7742	0.085	0.059
Residual	20	0.001	6.624E-5				

IGFBP1	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	6.567E-10	6.567E-10	0.518	0.4799	0.518	0.102
Treatment	1	1.747E-9	1.747E-9	1.379	0.2541	1.379	0.191
Time Point * Treatment	1	2.255E-10	2.255E-10	0.178	0.6777	0.178	0.068
Residual	20	2.535E-8	1.267E-9				

IGFBP2	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	2.089E-4	2.089E-4	0.402	0.5327	0.402	0.091
Treatment	1	4.664E-4	4.664E-4	0.900	0.3541	0.900	0.141
Time Point * Treatment	1	0.006	0.006	11.944	0.0025	11.944	0.923
Residual	20	0.010	0.001				

ANOVA table for IGFBP3	DF	Sum of squares	Mean square	F-value	P-value	Lambda	Power
Time Point	1	1.666E-9	1.666E-9	2.021	0.1706	2.021	0.259
Treatment	1	8.104E-9	8.104E-9	9.828	0.0052	9.828	0.861
Time Point * Treatment	1	2.690E-11	2.690E-11	0.033	0.8585	0.033	0.053
Residual	20	1.649E-8	8.245E-10				