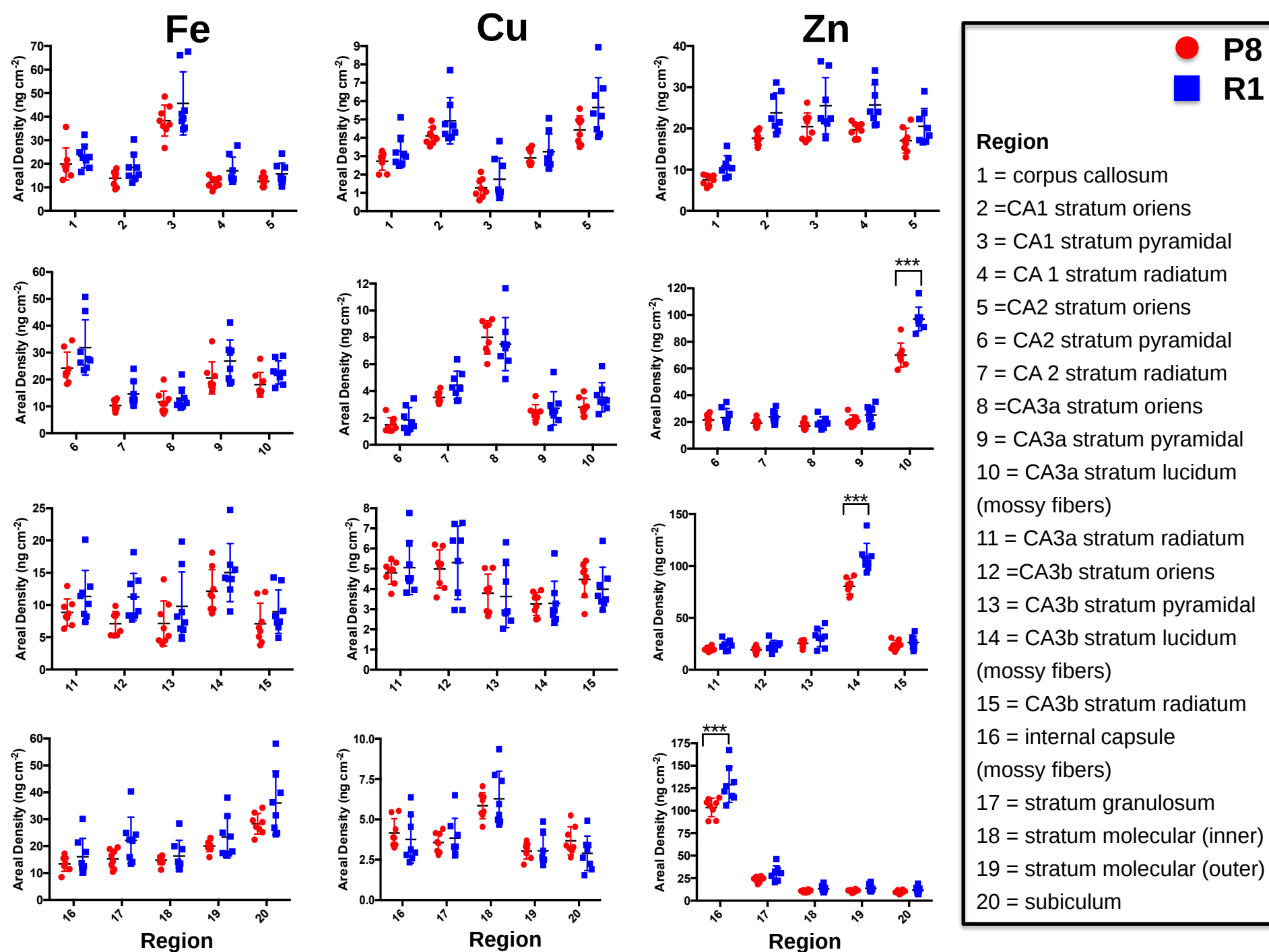


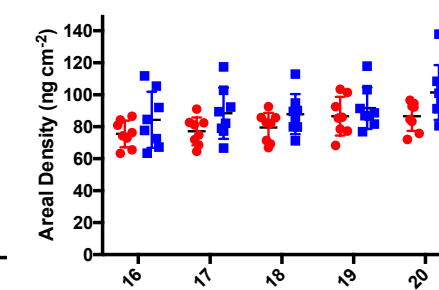
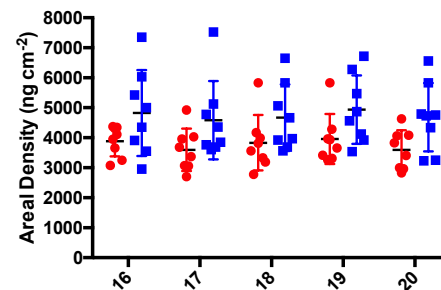
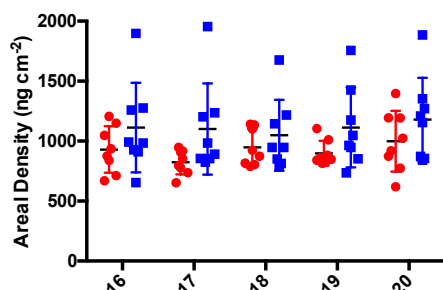
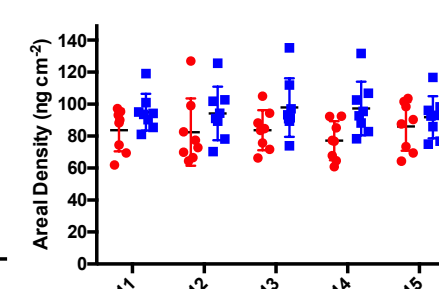
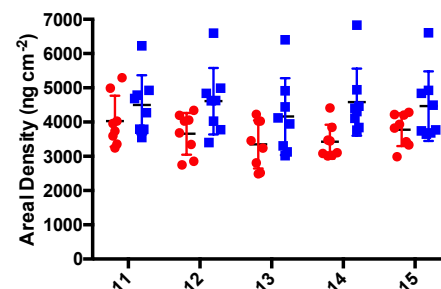
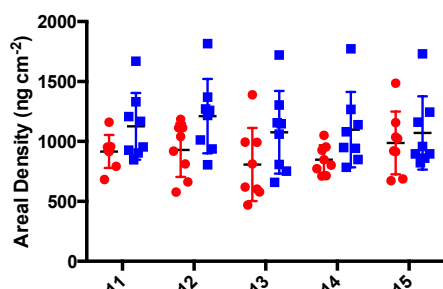
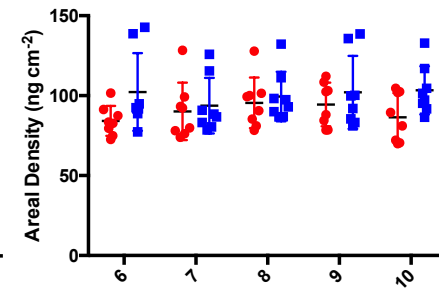
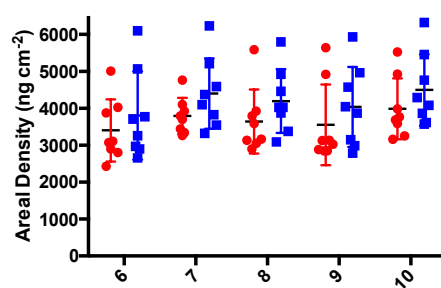
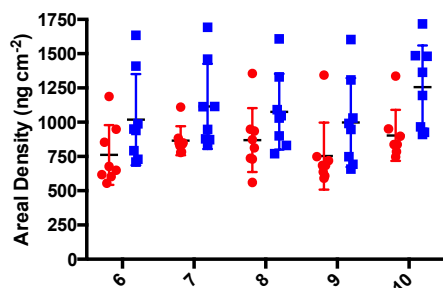
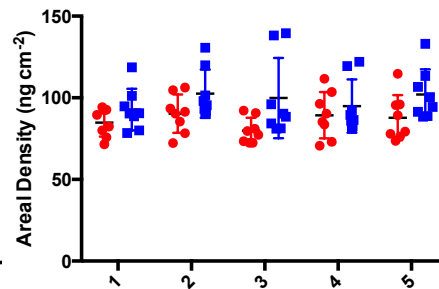
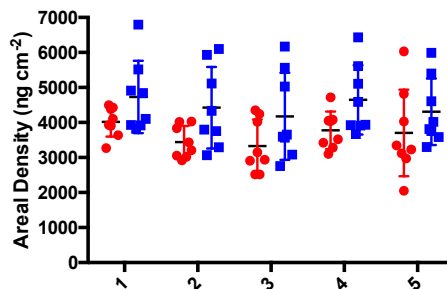
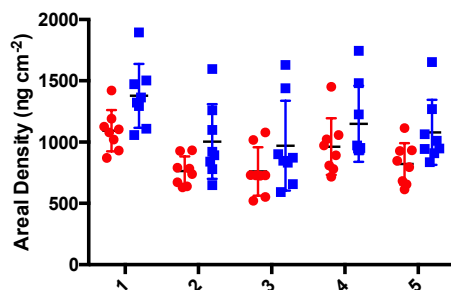


Cl**K****Ca**

● P8
■ R1

Region

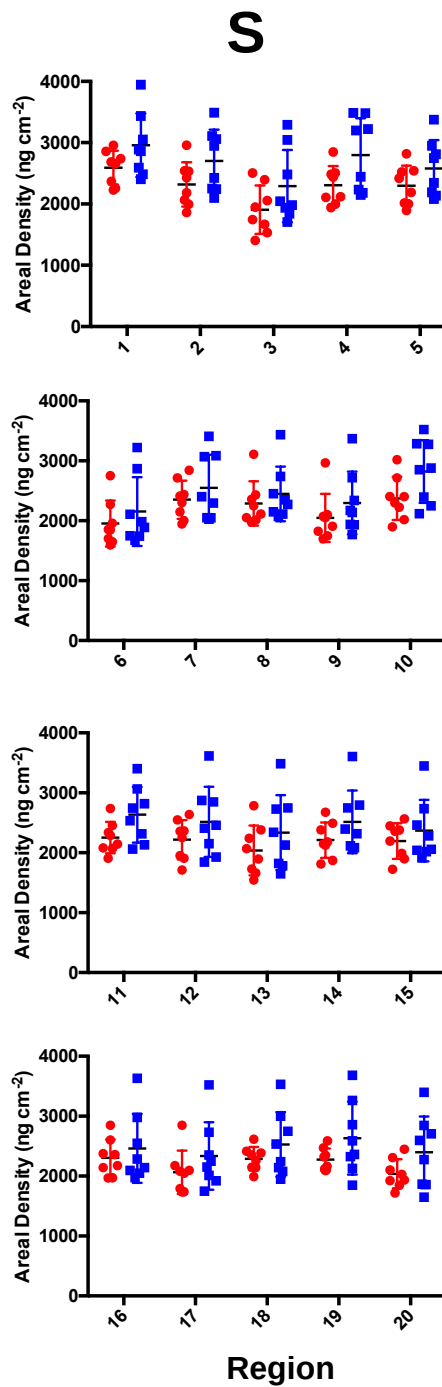
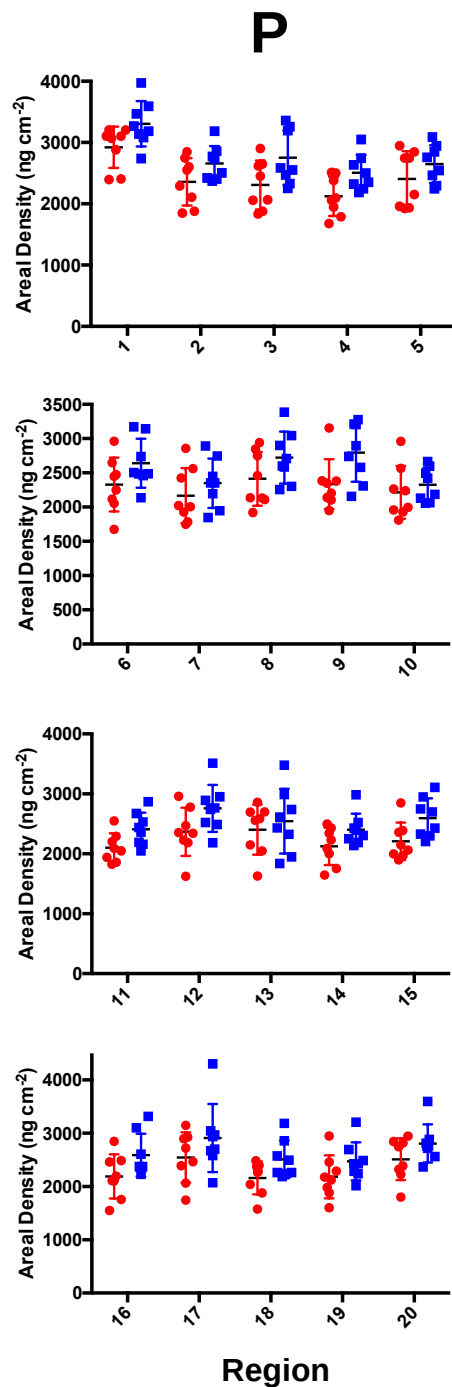
- 1 = corpus callosum
- 2 = CA1 stratum oriens
- 3 = CA1 stratum pyramidal
- 4 = CA 1 stratum radiatum
- 5 = CA2 stratum oriens
- 6 = CA2 stratum pyramidal
- 7 = CA 2 stratum radiatum
- 8 = CA3a stratum oriens
- 9 = CA3a stratum pyramidal
- 10 = CA3a stratum lucidum (mossy fibers)
- 11 = CA3a stratum radiatum
- 12 = CA3b stratum oriens
- 13 = CA3b stratum pyramidal
- 14 = CA3b stratum lucidum (mossy fibers)
- 15 = CA3b stratum radiatum
- 16 = internal capsule (mossy fibers)
- 17 = stratum granulosum
- 18 = stratum molecular (inner)
- 19 = stratum molecular (outer)
- 20 = subiculum



Region

Region

Region

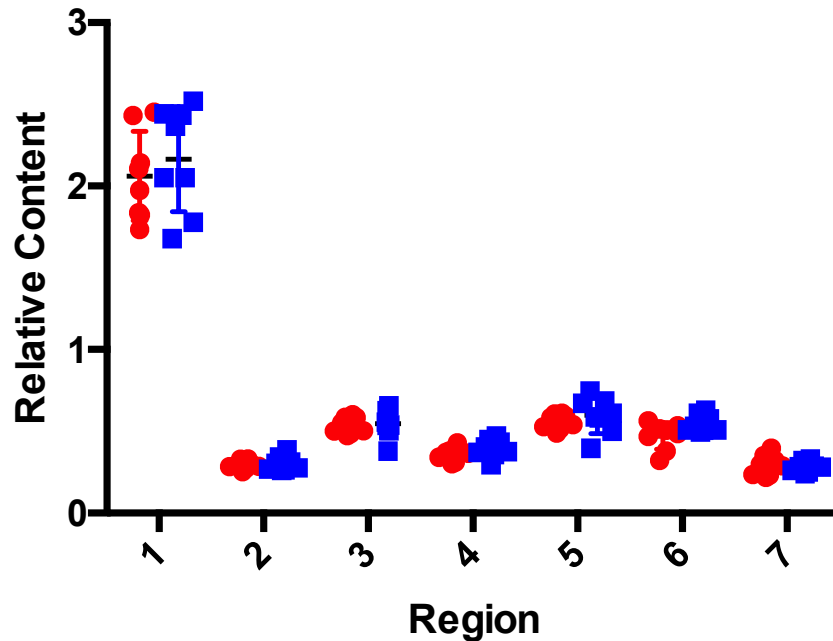


● P8
■ R1

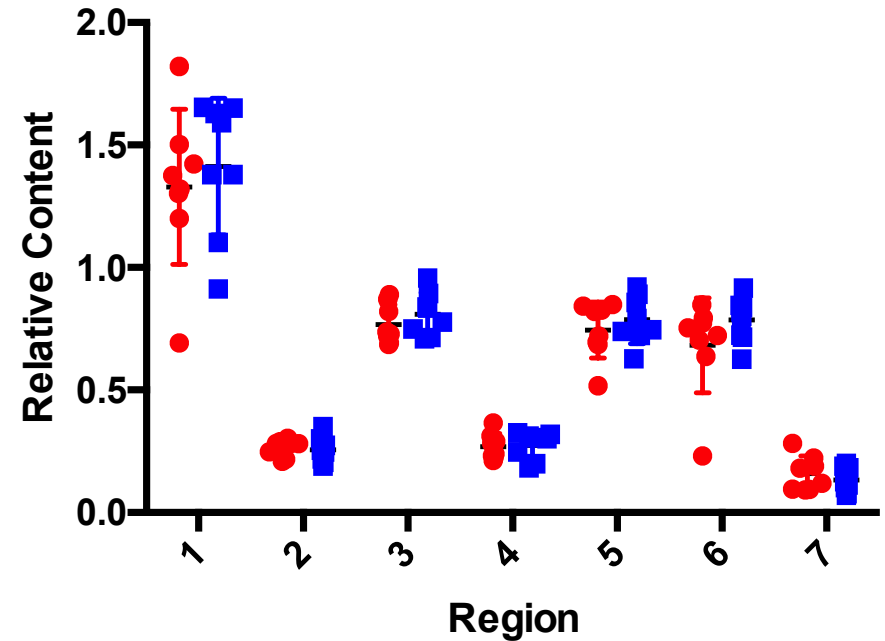
Region

- 1 = corpus callosum
- 2 = CA1 stratum oriens
- 3 = CA1 stratum pyramidal
- 4 = CA1 stratum radiatum
- 5 = CA2 stratum oriens
- 6 = CA2 stratum pyramidal
- 7 = CA2 stratum radiatum
- 8 = CA3a stratum oriens
- 9 = CA3a stratum pyramidal
- 10 = CA3a stratum lucidum (mossy fibers)
- 11 = CA3a stratum radiatum
- 12 = CA3b stratum oriens
- 13 = CA3b stratum pyramidal
- 14 = CA3b stratum lucidum (mossy fibers)
- 15 = CA3b stratum radiatum
- 16 = internal capsule (mossy fibers)
- 17 = stratum granulosum
- 18 = stratum molecular (inner)
- 19 = stratum molecular (outer)
- 20 = subiculum

Lipid Methylene



Lipid Ester



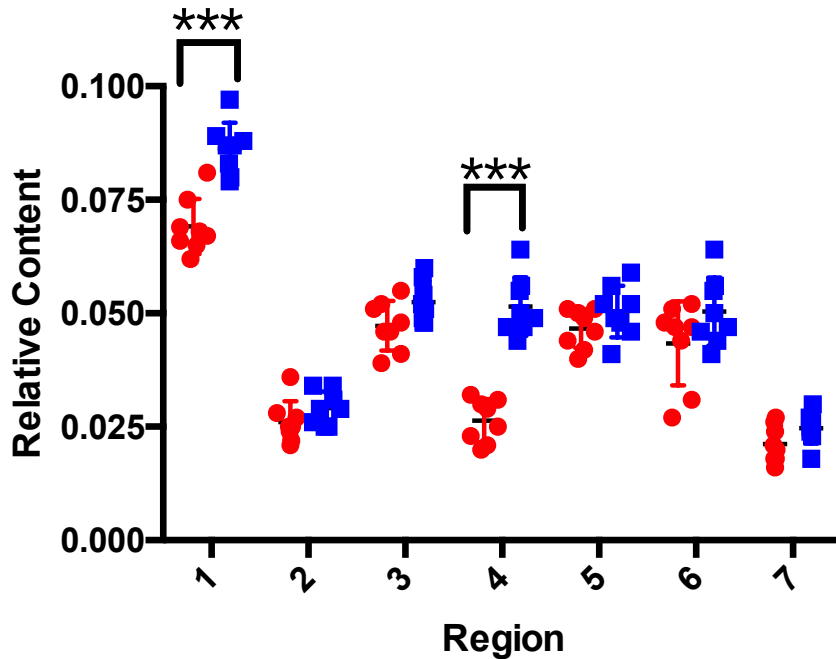
● P8
■ R1

Regions

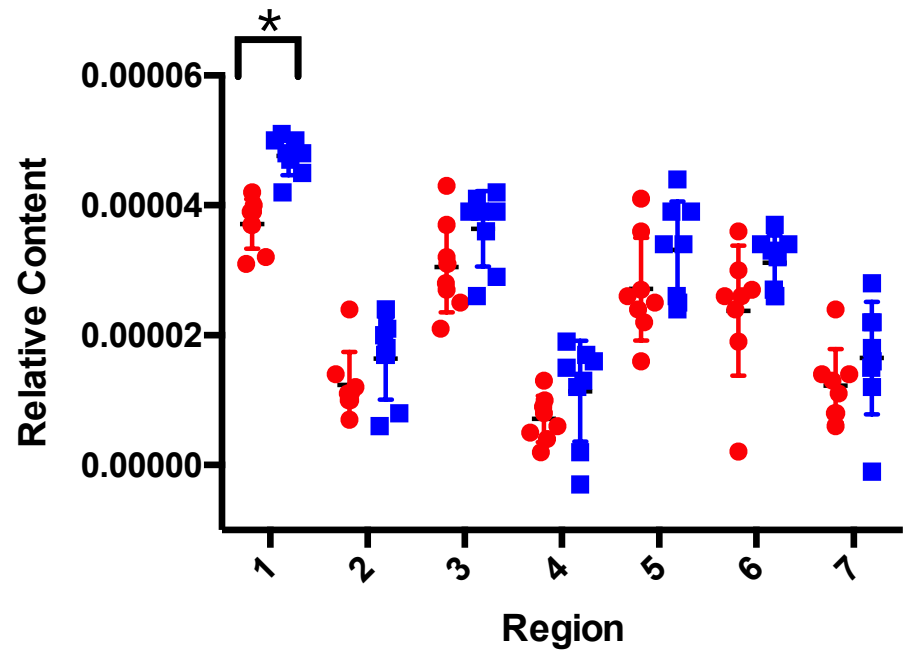
1 = corpus callosum
2 = CA1 stratum pyramidal
3 = CA1 stratum radiatum

4 = CA3 stratum pyramidal
5 = stratum lucidum (mossy fibers)
6 = DG internal capsule
7 = stratum granulosum;

Unsaturated Lipids



Lactate



● P8
■ R1

Regions

1 = corpus callosum
2 = CA1 stratum pyramidal
3 = CA1 stratum radiatum

4 = CA3 stratum pyramidal
5 = stratum lucidum (mossy fibers)
6 = DG internal capsule
7 = stratum granulosum;

2way ANOVA Tabular results						
1	Table Analyzed	Zn				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	1.878	<0.0001	****	Yes	
8	Strain	1.552	0.0064	**	Yes	
9	Region	92.73	<0.0001	****	Yes	
10	Subjects (matching)	2.115	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	5388	19	283.6	F (19, 266) = 15.24	P<0.0001
14	Strain	4453	1	4453	F (1, 14) = 10.27	P=0.0064
15	Region	266034	19	14002	F (19, 266) = 752.4	P<0.0001
16	Subjects (matching)	6067	14	433.4	F (14, 266) = 23.29	P<0.0001
17	Residual	4950	266	18.61		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	Cu				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	2.048	<0.0001	****	Yes	
8	Strain	0.4477	0.6126	ns	No	
9	Region	65.55	<0.0001	****	Yes	
10	Subjects (matching)	23.37	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	20.01	19	1.053	F (19, 266) = 3.339	P<0.0001
14	Strain	4.375	1	4.375	F (1, 14) = 0.2682	P=0.6126
15	Region	640.5	19	33.71	F (19, 266) = 106.9	P<0.0001
16	Subjects (matching)	228.3	14	16.31	F (14, 266) = 51.71	P<0.0001
17	Residual	83.89	266	0.3154		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	Fe				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	0.9542	0.1034	ns	No	
8	Strain	4.221	0.0892	ns	No	
9	Region	67.9	<0.0001	****	Yes	
10	Subjects (matching)	17.72	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	315.8	19	16.62	F (19, 266) = 1.451	P=0.1034
14	Strain	1397	1	1397	F (1, 14) = 3.335	P=0.0892
15	Region	22470	19	1183	F (19, 266) = 103.2	P<0.0001
16	Subjects (matching)	5865	14	418.9	F (14, 266) = 36.57	P<0.0001
17	Residual	3047	266	11.45		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	Ca				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	2.493	0.0164	*	Yes	
8	Strain	11.82	0.1144	ns	No	
9	Region	8.661	<0.0001	****	Yes	
10	Subjects (matching)	58.38	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	2065	19	108.7	F (19, 266) = 1.872	P=0.0164
14	Strain	9793	1	9793	F (1, 14) = 2.835	P=0.1144
15	Region	7174	19	377.6	F (19, 266) = 6.503	P<0.0001
16	Subjects (matching)	48354	14	3454	F (14, 266) = 59.49	P<0.0001
17	Residual	15443	266	58.06		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	K				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	1.224	0.8415	ns	No	
8	Strain	15.49	0.0622	ns	No	
9	Region	5.113	0.0001	***	Yes	
10	Subjects (matching)	52.83	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	3787631	19	199349	F (19, 266) = 0.6761	P=0.8415
14	Strain	47954725	1	47954725	F (1, 14) = 4.107	P=0.0622
15	Region	15824682	19	832878	F (19, 266) = 2.825	P=0.0001
16	Subjects (matching)	163487637	14	11677688	F (14, 266) = 39.6	P<0.0001
17	Residual	78432383	266	294859		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	CI				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	1.107	0.6280	ns	No	
8	Strain	15.68	0.0685	ns	No	
9	Region	8.92	<0.0001	****	Yes	
10	Subjects (matching)	56.36	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	291520	19	15343	F (19, 266) = 0.8642	P=0.6280
14	Strain	4126790	1	4126790	F (1, 14) = 3.894	P=0.0685
15	Region	2348268	19	123593	F (19, 266) = 6.961	P<0.0001
16	Subjects (matching)	14835674	14	1059691	F (14, 266) = 59.69	P<0.0001
17	Residual	4722618	266	17754		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	S				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	0.9397	0.8920	ns	No	
8	Strain	9.694	0.1391	ns	No	
9	Region	12.91	<0.0001	****	Yes	
10	Subjects (matching)	55.16	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	698886	19	36783	F (19, 266) = 0.6178	P=0.8920
14	Strain	7209952	1	7209952	F (1, 14) = 2.461	P=0.1391
15	Region	9603561	19	505451	F (19, 266) = 8.489	P<0.0001
16	Subjects (matching)	41023675	14	2930263	F (14, 266) = 49.21	P<0.0001
17	Residual	15838588	266	59544		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	P				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	1.076	0.8403	ns	No	
8	Strain	12.96	0.0593	ns	No	
9	Region	20.66	<0.0001	****	Yes	
10	Subjects (matching)	43.06	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	665902	19	35047	F (19, 266) = 0.6774	P=0.8403
14	Strain	8016133	1	8016133	F (1, 14) = 4.213	P=0.0593
15	Region	12778751	19	672566	F (19, 266) = 13	P<0.0001
16	Subjects (matching)	26641027	14	1902930	F (14, 266) = 36.78	P<0.0001
17	Residual	13763089	266	51741		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	CH2				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	0.09044	0.7969	ns	No	
8	strain	0.09412	0.3273	ns	No	
9	region	96.07	<0.0001	****	Yes	
10	Subjects (matching)	1.279	0.0006	***	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	0.03772	6	0.006287	F (6, 84) = 0.5131	P=0.7969
14	strain	0.03926	1	0.03926	F (1, 14) = 1.03	P=0.3273
15	region	40.07	6	6.679	F (6, 84) = 545.1	P<0.0001
16	Subjects (matching)	0.5335	14	0.03811	F (14, 84) = 3.11	P=0.0006
17	Residual	1.029	84	0.01225		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	Olefinic				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	4.571	<0.0001	****	Yes	
8	strain	6.305	0.0007	***	Yes	
9	region	81.03	<0.0001	****	Yes	
10	Subjects (matching)	4.682	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	0.001744	6	0.0002906	F (6, 84) = 18.76	P<0.0001
14	strain	0.002405	1	0.002405	F (1, 14) = 18.85	P=0.0007
15	region	0.03091	6	0.005152	F (6, 84) = 332.6	P<0.0001
16	Subjects (matching)	0.001786	14	0.0001276	F (14, 84) = 8.237	P<0.0001
17	Residual	0.001301	84	1.549e-005		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	Lactate				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	0.6685	0.3280	ns	No	
8	Strain	5.285	0.0334	*	Yes	
9	Region	72.77	<0.0001	****	Yes	
10	Subjects (matching)	13.31	<0.0001	****	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	1.29e-010	6	2.149e-011	F (6, 84) = 1.174	P=0.3280
14	Strain	1.019e-009	1	1.019e-009	F (1, 14) = 5.561	P=0.0334
15	Region	1.404e-008	6	2.339e-009	F (6, 84) = 127.8	P<0.0001
16	Subjects (matching)	2.567e-009	14	1.833e-010	F (14, 84) = 10.01	P<0.0001
17	Residual	1.538e-009	84	1.831e-011		
18						
19	Number of missing values	0				

2way ANOVA Tabular results						
1	Table Analyzed	Ester				
2						
3	Two-way RM ANOVA	Matching: Across row				
4	Alpha	0.05				
5						
6	Source of Variation	% of total variation	P value	P value summary	Significant?	
7	Interaction	0.2771	0.7497	ns	No	
8	Strain	0.1642	0.4074	ns	No	
9	Region	89.65	<0.0001	****	Yes	
10	Subjects (matching)	3.152	0.0018	**	Yes	
11						
12	ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
13	Interaction	0.0545	6	0.009084	F (6, 84) = 0.5743	P=0.7497
14	Strain	0.0323	1	0.0323	F (1, 14) = 0.7296	P=0.4074
15	Region	17.63	6	2.938	F (6, 84) = 185.8	P<0.0001
16	Subjects (matching)	0.6198	14	0.04427	F (14, 84) = 2.799	P=0.0018
17	Residual	1.329	84	0.01582		
18						
19	Number of missing values	0				