Figure 7A: Brain T Cells				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	29.66	F (1, 57) = 28.10	<0.0001	****
Sex	4.328	F (1, 57) = 4.101	0.0475	*
LPS	0.6993	F (1, 57) = 0.6627	0.419	ns
Age x Sex	2.836	F (1, 57) = 2.687	0.1067	ns
Age x LPS	0.6173	F (1, 57) = 0.5849	0.4475	ns
Sex x LPS	0.1022	F (1, 57) = 0.09688	0.7567	ns
Age x Sex x LPS	0.04911	F (1, 57) = 0.04654	0.83	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	2.107	57	0.3835	ns
Adult:Male - LPS vs. Aged:Male - LPS	1.593	57	0.7744	ns
Adult:Female - Saline vs. Aged:Female - Saline	3.964	57	0.0025	**
Adult:Female - LPS vs. Aged:Female - LPS	2.91	57	0.06	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.2719	57	>0.9999	ns
Adult:Female - Saline vs. Adult:Female - LPS	0.2165	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Male - LPS	0.919	57	0.9955	ns
Aged:Female - Saline vs. Aged:Female - LPS	0.8141	57	0.9985	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.06652	57	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.4138	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	1.909	57	0.5318	ns
Aged:Male - LPS vs. Aged:Female - LPS	2.12	57	0.3746	ns

Figure 7B: Brain CD8+ T Cells				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	25.62	F (1, 57) = 24.57	<0.0001	****
Sex	6.949	F (1, 57) = 6.665	0.0124	*
LPS	0.3393	F (1, 57) = 0.3254	0.5706	ns
Age x Sex	4.204	F (1, 57) = 4.032	0.0494	*
Age x LPS	0.9474	F (1, 57) = 0.9088	0.3445	ns
Sex x LPS	0.05993	F (1, 57) = 0.05748	0.8114	ns
Age x Sex x LPS	0.02045	F (1, 57) = 0.01962	0.8891	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	1.883	57	0.5527	ns
Adult:Male - LPS vs. Aged:Male - LPS	1.093	57	0.9803	ns
Adult:Female - Saline vs. Aged:Female - Saline	4.032	57	0.002	**
Adult:Female - LPS vs. Aged:Female - LPS	2.867	57	0.0673	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.001425	57	>0.9999	ns
Adult:Female - Saline vs. Adult:Female - LPS	0.3457	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Male - LPS	0.891	57	0.9966	ns
Aged:Female - Saline vs. Aged:Female - LPS	0.7816	57	0.999	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.09146	57	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.4322	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	2.402	57	0.2114	ns
Aged:Male - LPS vs. Aged:Female - LPS	2.644	57	0.1196	ns

Figure 7C: Brain CD4+ T Cells				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	23.52	F (1, 57) = 19.14	<0.0001	****
Sex	2.081	F (1, 57) = 1.694	0.1983	ns
LPS	0.8382	F (1, 57) = 0.6823	0.4123	ns
Age x Sex	1.962	F (1, 57) = 1.597	0.2114	ns
Age x LPS	0.4244	F (1, 57) = 0.3454	0.559	ns
Sex x LPS	0.1282	F (1, 57) = 0.1044	0.7478	ns
Age x Sex x LPS	0.1874	F (1, 57) = 0.1526	0.6976	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	1.656	57	0.7297	ns
Adult:Male - LPS vs. Aged:Male - LPS	1.491	57	0.8394	ns
Adult:Female - Saline vs. Aged:Female - Saline	3.311	57	0.0192	*
Adult:Female - LPS vs. Aged:Female - LPS	2.276	57	0.2765	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.4491	57	>0.9999	ns
Adult:Female - Saline vs. Adult:Female - LPS	0.2155	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Male - LPS	0.7388	57	0.9994	ns
Aged:Female - Saline vs. Aged:Female - LPS	0.813	57	0.9985	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.3189	57	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.3406	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	1.408	57	0.8842	ns
Aged:Male - LPS vs. Aged:Female - LPS	1.408	57	0.8842	ns

Figure 7C: Brain Teffs				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	14.52	F (1, 57) = 12.30	0.0009	***
Sex	7.236	F (1, 57) = 6.128	0.0163	*
LPS	1.092	F (1, 57) = 0.9249	0.3403	ns
Age x Sex	6.388	F (1, 57) = 5.410	0.0236	*
Age x LPS	0.3771	F (1, 57) = 0.3193	0.5742	ns
Sex x LPS	0.1315	F (1, 57) = 0.1114	0.7398	ns
Age x Sex x LPS	0.03503	F (1, 57) = 0.02967	0.8639	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	0.7875	57	0.9989	ns
Adult:Male - LPS vs. Aged:Male - LPS	0.4033	57	>0.9999	ns
Adult:Female - Saline vs. Aged:Female - Saline	3.288	57	0.0206	*
Adult:Female - LPS vs. Aged:Female - LPS	2.488	57	0.1738	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.4258	57	>0.9999	ns
Adult:Female - Saline vs. Adult:Female - LPS	0.04955	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Male - LPS	0.9266	57	0.9951	ns
Aged:Female - Saline vs. Aged:Female - LPS	0.7493	57	0.9993	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.1682	57	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.2971	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	2.482	57	0.1763	ns
Aged:Male - LPS vs. Aged:Female - LPS	2.798	57	0.0808	ns

Figure 7C: Brain Tregs				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	6.489	F (1, 57) = 4.304	0.0426	*
Sex	2.877	F (1, 57) = 1.908	0.1726	ns
LPS	0.2105	F (1, 57) = 0.1396	0.71	ns
Age x Sex	1.739	F (1, 57) = 1.154	0.2873	ns
Age x LPS	1.311	F (1, 57) = 0.8695	0.355	ns
Sex x LPS	0.2138	F (1, 57) = 0.1418	0.7079	ns
Age x Sex x LPS	0.1312	F (1, 57) = 0.08700	0.7691	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	0.8196	57	0.9984	ns
Adult:Male - LPS vs. Aged:Male - LPS	0.1857	57	>0.9999	ns
Adult:Female - Saline vs. Aged:Female - Saline	2.19	57	0.3286	ns
Adult:Female - LPS vs. Aged:Female - LPS	0.9382	57	0.9945	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.05319	57	>0.9999	ns
Adult:Female - Saline vs. Adult:Female - LPS	0.5577	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Male - LPS	0.7617	57	0.9992	ns
Aged:Female - Saline vs. Aged:Female - LPS	0.672	57	0.9998	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.1719	57	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.4437	57	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	1.27	57	0.9403	ns
Aged:Male - LPS vs. Aged:Female - LPS	1.431	57	0.873	ns

Figure 7D: Meninges T Cells				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	1.857	F (1, 58) = 1.545	0.2188	ns
Sex	4.042	F (1, 58) = 3.364	0.0718	ns
LPS	0.2019	F (1, 58) = 0.1680	0.6834	ns
Age x Sex	4.26	F (1, 58) = 3.546	0.0647	ns
Age x LPS	16.04	F (1, 58) = 13.35	0.0006	***
Sex x LPS	0.05555	F (1, 58) = 0.04623	0.8305	ns
Age x Sex x LPS	2.002	F (1, 58) = 1.666	0.2019	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	0.8521	58	0.9977	ns
Adult:Male - LPS vs. Aged:Male - LPS	1.518	58	0.8229	ns
Adult:Female - Saline vs. Aged:Female - Saline	3.991	58	0.0022	**
Adult:Female - LPS vs. Aged:Female - LPS	0.9196	58	0.9954	ns
Adult:Male - Saline vs. Adult:Male - LPS	1.011	58	0.9896	ns
Adult:Female - Saline vs. Adult:Female - LPS	2.014	58	0.4504	ns
Aged:Male - Saline vs. Aged:Male - LPS	1.387	58	0.8941	ns
Aged:Female - Saline vs. Aged:Female - LPS	3.021	58	0.044	*
Adult:Male - Saline vs. Adult:Female - Saline	0.5243	58	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.4788	58	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	2.761	58	0.0886	ns
Aged:Male - LPS vs. Aged:Female - LPS	1.232	58	0.9515	ns

Figure 7E: Meninges CD8+ T Cells				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	0.868	F (1, 58) = 0.6877	0.4104	ns
Sex	4.171	F (1, 58) = 3.304	0.0743	ns
LPS	1.078	F (1, 58) = 0.8543	0.3592	ns
Age x Sex	6.652	F (1, 58) = 5.270	0.0253	*
Age x LPS	9.392	F (1, 58) = 7.441	0.0084	**
Sex x LPS	0.1712	F (1, 58) = 0.1356	0.714	ns
Age x Sex x LPS	1.807	F (1, 58) = 1.431	0.2364	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	0.03214	58	>0.9999	ns
Adult:Male - LPS vs. Aged:Male - LPS	1.516	58	0.8244	ns
Adult:Female - Saline vs. Aged:Female - Saline	3.486	58	0.0112	*
Adult:Female - LPS vs. Aged:Female - LPS	0.4041	58	>0.9999	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.4548	58	>0.9999	ns
Adult:Female - Saline vs. Adult:Female - LPS	1.227	58	0.9529	ns
Aged:Male - Saline vs. Aged:Male - LPS	1.132	58	0.974	ns
Aged:Female - Saline vs. Aged:Female - LPS	2.829	58	0.0741	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.6089	58	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.1632	58	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	3.002	58	0.0464	*
Aged:Male - LPS vs. Aged:Female - LPS	1.42	58	0.8781	ns

Figure 7F: Meninges CD4+ T Cells				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	7.34	F (1, 58) = 6.538	0.0132	*
Sex	4.51	F (1, 58) = 4.017	0.0497	*
LPS	0.5573	F (1, 58) = 0.4964	0.4839	ns
Age x Sex	4.918	F (1, 58) = 4.381	0.0407	*
Age x LPS	13.82	F (1, 58) = 12.31	0.0009	***
Sex x LPS	0.2331	F (1, 58) = 0.2076	0.6504	ns
Age x Sex x LPS	1.473	F (1, 58) = 1.312	0.2568	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	1.398	58	0.8889	ns
Adult:Male - LPS vs. Aged:Male - LPS	0.9607	58	0.9933	ns
Adult:Female - Saline vs. Aged:Female - Saline	4.601	58	0.0003	***
Adult:Female - LPS vs. Aged:Female - LPS	0.002223	58	>0.9999	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.986	58	0.9916	ns
Adult:Female - Saline vs. Adult:Female - LPS	1.629	58	0.7487	ns
Aged:Male - Saline vs. Aged:Male - LPS	1.417	58	0.8797	ns
Aged:Female - Saline vs. Aged:Female - LPS	3.154	58	0.0302	*
Adult:Male - Saline vs. Adult:Female - Saline	0.3629	58	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.2802	58	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	3.012	58	0.0451	*
Aged:Male - LPS vs. Aged:Female - LPS	1.391	58	0.8923	ns

Figure 7F: Meninges Teffs				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	5.662	F (1, 58) = 5.203	0.0262	*
Sex	11.67	F (1, 58) = 10.73	0.0018	**
LPS	0.2753	F (1, 58) = 0.2530	0.6169	ns
Age x Sex	5.049	F (1, 58) = 4.639	0.0354	*
Age x LPS	10.88	F (1, 58) = 9.996	0.0025	**
Sex x LPS	0.04526	F (1, 58) = 0.04159	0.8391	ns
Age x Sex x LPS	1.508	F (1, 58) = 1.385	0.244	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	1.044	58	0.9863	ns
Adult:Male - LPS vs. Aged:Male - LPS	0.9393	58	0.9945	ns
Adult:Female - Saline vs. Aged:Female - Saline	4.338	58	0.0007	***
Adult:Female - LPS vs. Aged:Female - LPS	0.0486	58	>0.9999	ns
Adult:Male - Saline vs. Adult:Male - LPS	1.065	58	0.984	ns
Adult:Female - Saline vs. Adult:Female - LPS	2.352	58	0.2349	ns
Aged:Male - Saline vs. Aged:Male - LPS	0.9142	58	0.9957	ns
Aged:Female - Saline vs. Aged:Female - LPS	1.97	58	0.484	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.121	58	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	1.167	58	0.9674	ns
Aged:Male - Saline vs. Aged:Female - Saline	3.384	58	0.0153	*
Aged:Male - LPS vs. Aged:Female - LPS	2.483	58	0.1754	ns

Figure 7F: Meninges Tregs				
Analysis: 3-way ANOVA	**% of total variation**	**F (DFn, DFd)**	**P value**	**Summary**
Age	14.54	F (1, 58) = 11.59	0.0012	**
Sex	1.024	F (1, 58) = 0.8164	0.37	ns
LPS	0.272	F (1, 58) = 0.2169	0.6432	ns
Age x Sex	0.5871	F (1, 58) = 0.4681	0.4966	ns
Age x LPS	10.25	F (1, 58) = 8.174	0.0059	**
Sex x LPS	0.01797	F (1, 58) = 0.01433	0.9051	ns
Age x Sex x LPS	0.2996	F (1, 58) = 0.2389	0.6269	ns
Posthoc: Šídák's multiple comparisons test	**t**	**DF**	**Adjusted P value**	**Summary**
Adult:Male - Saline vs. Aged:Male - Saline	2.518	58	0.1618	ns
Adult:Male - LPS vs. Aged:Male - LPS	0.1773	58	>0.9999	ns
Adult:Female - Saline vs. Aged:Female - Saline	3.678	58	0.0062	**
Adult:Female - LPS vs. Aged:Female - LPS	0.375	58	>0.9999	ns
Adult:Male - Saline vs. Adult:Male - LPS	0.8322	58	0.9982	ns
Adult:Female - Saline vs. Adult:Female - LPS	1.399	58	0.8884	ns
Aged:Male - Saline vs. Aged:Male - LPS	1.603	58	0.7671	ns
Aged:Female - Saline vs. Aged:Female - LPS	2.003	58	0.4584	ns
Adult:Male - Saline vs. Adult:Female - Saline	0.1814	58	>0.9999	ns
Adult:Male - LPS vs. Adult:Female - LPS	0.3859	58	>0.9999	ns
Aged:Male - Saline vs. Aged:Female - Saline	1.034	58	0.9874	ns
Aged:Male - LPS vs. Aged:Female - LPS	0.6791	58	0.9998	ns