

Supplementary Tables

Supplementary Table S1. Luminex Cytokine Data - ANOVA Table for 5XFAD DREADD – female, brain homogenate.

Supplemental Table 1. ANOVA Table for 5XFAD DREADD.									
MARKER	INTERACTION		5XFAD		DREADD		Sidak's		
	F (1, 38) = 4.026	(trend) P=0.0517	F (1, 38) = 167.8	*** P=0.0001	F (1, 38) = 5.552	* P=0.0237	NC-con v SK-con	NC-DREADD v SK-DREADD	NC-con v NC-DREADD
BAFF	F (1, 39) = 0.0756	P=0.7891	F (1, 39) = 0.4024	P=0.5296	F (1, 39) = 0.4712	P=0.4965	*** 0.0001	*** 0.0001	0.9961
GCSF	F (1, 39) = 1.342	P=0.2538	F (1, 39) = 1.039	P=0.3144	F (1, 39) = 0.0001146	P=0.9915	0.229	0.9999	0.8531
GMC5F	F (1, 39) = 0.2314	P=0.6332	F (1, 39) = 3.229	(trend) P=0.0801	F (1, 39) = 0.5152	P=0.4772	0.6908	0.5345	0.8415
IFNA	F (1, 38) = 1.982	P=0.1761	F (1, 38) = 1.291	P=0.2630	F (1, 38) = 0.1645	P=0.6874	0.9993	0.4346	0.5536
IL1A	F (1, 39) = 0.4906	P=0.4878	F (1, 39) = 9.563	** P=0.0038	F (1, 39) = 1.831e-005	P=0.9965	0.1604	0.1034	0.9734
IL1B	F (1, 39) = 0.001808	P=0.9663	F (1, 39) = 1.351	P=0.2522	F (1, 39) = 1.014	P=0.3201	0.7544	0.9376	0.8951
IL2	F (1, 39) = 2.161	P=0.1496	F (1, 39) = 0.3703	P=0.5463	F (1, 39) = 0.7278	P=0.3988	0.9107	0.6181	0.3022
IL3	F (1, 39) = 0.3628	P=0.5504	F (1, 39) = 7.656	** P=0.0086	F (1, 39) = 0.2101	P=0.6492	0.2338	0.1763	0.8916
IL4	F (1, 39) = 0.05465	P=0.8164	F (1, 39) = 5.724	* P=0.0216	F (1, 39) = 0.1578	P=0.6933	0.1012	0.5844	0.9823
IL5	F (1, 39) = 0.2532	P=0.6176	F (1, 39) = 12.66	*** P=0.0010	F (1, 39) = 0.08007	P=0.7787	* 0.0424	(trend) 0.0711	0.9997
IL6	F (1, 39) = 1.478	P=0.2313	F (1, 39) = 2.092	P=0.1561	F (1, 39) = 0.08661	P=0.7675	0.9994	0.3629	0.6972
IL7	F (1, 39) = 0.4698	P=0.4971	F (1, 39) = 0.2444	P=0.6238	F (1, 39) = 1.085	P=0.3039	0.768	0.9999	0.956
IL9	F (1, 39) = 0.001066	P=0.9741	F (1, 39) = 0.06721	P=0.7968	F (1, 39) = 0.5893	P=0.4473	0.9994	0.9995	0.9581
IL10	F (1, 39) = 0.3541	P=0.5553	F (1, 39) = 0.2736	P=0.6039	F (1, 39) = 0.002429	P=0.9609	0.8005	0.9999	0.9808
IL12P70	F (1, 39) = 0.2814	P=0.5988	F (1, 39) = 1.398	P=0.2442	F (1, 39) = 0.03341	P=0.8559	0.4533	0.9912	0.9962
IL13	F (1, 39) = 0.07328	P=0.7880	F (1, 39) = 1.539	P=0.2222	F (1, 39) = 0.01390	P=0.9067	0.8695	0.5363	0.9972
IL15R159	F (1, 39) = 0.6600	P=0.4215	F (1, 39) = 11.25	** P=0.0018	F (1, 39) = 0.00206	P=0.9721	0.1194	(trend) 0.0605	0.9802
IL17A/C/TLA8	F (1, 39) = 0.1715	P=0.6810	F (1, 39) = 14.25	*** P=0.0005	F (1, 39) = 0.5483	P=0.4634	** 0.0028	0.1781	0.9986
IL18	F (1, 39) = 0.03704	P=0.8484	F (1, 39) = 2.280	P=0.1391	F (1, 39) = 0.7299	P=0.3981	0.4594	0.893	0.9788
IL19	F (1, 39) = 0.4328	P=0.5145	F (1, 39) = 5.661	* P=0.0223	F (1, 39) = 1.509	P=0.2266	* 0.0433	0.7624	0.5036
IL22	F (1, 39) = 0.1357	P=0.7146	F (1, 39) = 6.840	* P=0.0126	F (1, 39) = 0.5201	P=0.4751	0.2035	0.2756	0.9981
IL23	F (1, 39) = 0.08617	P=0.7707	F (1, 39) = 0.04397	P=0.8350	F (1, 39) = 0.1775	P=0.6758	0.9999	0.9968	0.972
IL25R17	F (1, 39) = 0.6347	P=0.4304	F (1, 39) = 1.205	P=0.2791	F (1, 39) = 0.06739	P=0.7855	0.9822	0.6845	0.859
IL27	F (1, 39) = 1.378	P=0.2475	F (1, 39) = 0.03125	P=0.8506	F (1, 39) = 0.01287	P=0.9103	0.8578	0.8841	0.8916
IL28	F (1, 39) = 0.07613	P=0.7841	F (1, 39) = 1.588	P=0.2151	F (1, 39) = 0.03802	P=0.8464	0.558	0.9601	0.9941
IL31	F (1, 39) = 0.002976	P=0.9568	F (1, 39) = 0.1087	P=0.7434	F (1, 39) = 0.5017	P=0.4830	0.9987	0.9989	0.9646
IL33	F (1, 39) = 0.1378	P=0.7126	F (1, 39) = 0.5904	P=0.4470	F (1, 39) = 0.4057	P=0.5289	0.7954	0.9987	0.91
*ILF	F (1, 39) = 0.09119	P=0.7643	F (1, 39) = 1.310	P=0.2593	F (1, 39) = 3.369	(trend) P=0.0741	0.917	0.8566	0.3815
MC5F	F (1, 39) = 0.001835	P=0.9661	F (1, 39) = 2.799	P=0.1023	F (1, 39) = 0.1122	P=0.7394	0.5016	0.7645	0.8991
SRANKL	F (1, 39) = 3.202	(trend) P=0.0813	F (1, 39) = 0.1468	P=0.7037	F (1, 39) = 2.220	P=0.1443	0.2308	0.8685	0.999
TNFA	F (1, 39) = 0.9367	P=0.3391	F (1, 39) = 3.419	(trend) P=0.0720	F (1, 39) = 0.6735	P=0.4168	0.9039	0.3286	0.9999
ENA7BLK/CXCL5	F (1, 39) = 7.534	** P=0.0091	F (1, 39) = 8.355	** P=0.0063	F (1, 39) = 3.875	(trend) P=0.0561	0.9999	** 0.0058	0.9624
EDNAR/CCL11	F (1, 37) = 0.4295	P=0.5163	F (1, 37) = 2.636	P=0.1130	F (1, 37) = 0.01507	P=0.9030	0.174	0.9641	0.9576
GROKAR/CXCL1	F (1, 39) = 9.245	** P=0.0042	F (1, 39) = 11.74	** P=0.0015	F (1, 39) = 0.5104	P=0.4792	0.9852	** 0.0013	0.301
*MCP1/CCL2	F (1, 39) = 2.068	P=0.1593	F (1, 39) = 74.24	*** P=0.0001	F (1, 39) = 0.3503	P=0.5574	*** 0.0001	*** 0.0001	0.9498
MCP1/CCL2	F (1, 39) = 1.072	P=0.3068	F (1, 39) = 12.92	*** P=0.0009	F (1, 39) = 0.01319	P=0.9092	0.1153	* 0.0301	0.932
*MCP3/CCL7	F (1, 38) = 58.32	* P=0.0133	F (1, 38) = 58.32	*** P=0.0001	F (1, 38) = 4.829	* P=0.0342	*** 0.0003	*** 0.0001	0.997
*MIP1A/CCL3	F (1, 38) = 10.62	** P=0.0030	F (1, 38) = 814.4	*** P=0.0001	F (1, 38) = 11.33	** P=0.0018	*** 0.0001	*** 0.0001	0.9998
*MIP1B/CCL4	F (1, 39) = 10.66	** P=0.0023	F (1, 39) = 129.3	*** P=0.0001	F (1, 39) = 10.51	** P=0.0025	*** 0.0001	*** 0.0001	0.9999
MP2	F (1, 39) = 2.914	(trend) P=0.0958	F (1, 39) = 2.193	P=0.1469	F (1, 39) = 0.003263	P=0.9547	0.9994	0.2191	0.6269
*RANTES/CCL5	F (1, 38) = 4.978	* P=0.0316	F (1, 38) = 71.56	*** P=0.0001	F (1, 38) = 3.907	(trend) P=0.0554	*** 0.0001	*** 0.0001	0.9995
BTC	F (1, 38) = 0.4365	P=0.5128	F (1, 38) = 0.1771	P=0.6762	F (1, 38) = 0.4834	P=0.4911	0.8268	0.9998	0.9999
LEPTN	F (1, 39) = 0.1729	P=0.6798	F (1, 39) = 0.7770	P=0.3835	F (1, 39) = 0.1301	P=0.7202	0.7018	0.9975	0.9623
VEGF	F (1, 39) = 0.003983	P=0.9500	F (1, 39) = 8.930	** P=0.0061	F (1, 39) = 0.009630	P=0.9227	* 0.0435	0.2987	0.9999
IL2RA	F (1, 39) = 0.1255	P=0.7251	F (1, 39) = 3.908	(trend) P=0.0552	F (1, 39) = 0.1376	P=0.7127	0.506	0.5125	0.9705
IL7RA	F (1, 39) = 0.1088	P=0.7432	F (1, 39) = 1.110	P=0.2986	F (1, 39) = 0.1088	P=0.7432	0.9505	0.8751	0.9999
ST2/IL33R	F (1, 38) = 1.390	P=0.2457	F (1, 38) = 6.922	* P=0.0122	F (1, 38) = 1.796	P=0.1881	** 0.0061	0.8592	0.2528

Supplementary Table S2. Luminex Cytokine Data - ANOVA Table for 5XFAD Propranolol – male, brain homogenate.

Supplemental Table S2. ANOVA Table for 5XFAD Propranolol - cortical homogenate.				
MARKER	one-way ANOVA		posthoc comparisons (Sidak's)	
			male 5XFAD-veh vs NC-veh	male 5XFAD-Prop vs 5XFAD-veh
BAFF	F (2, 11) = 16.09	*** P=0.0005	** 0.0049	
GCSF	F (2, 11) = 3.227	P=0.0789		
GMCSF	F (2, 12) = 4.267	* P=0.0398	ns	ns
IFNA	F (2, 12) = 2.667	P=0.1101		
IFNG	F (2, 12) = 2.660	P=0.1106		
IL1A	F (2, 12) = 13.31	*** P=0.0009	** 0.0018	
IL1B	F (2, 12) = 2.357	P=0.1369		
IL2	F (2, 12) = 0.5351	P=0.5990		
IL3	F (2, 12) = 11.60	** P=0.0016	* 0.0183	
IL4	F (2, 12) = 5.180	* P=0.0239	* 0.0497	
IL5	F (2, 12) = 1.309	P=0.3059		
IL6	F (2, 12) = 5.909	* P=0.0164		* 0.0269
IL7	F (2, 12) = 2.022	P=0.1751		
IL9	F (2, 11) = 0.3676	P=0.7006		
IL10	F (2, 12) = 0.3332	P=0.7231		
IL12P70	F (2, 12) = 1.625	P=0.2375		
IL13	F (2, 12) = 4.804	* P=0.0293	(trend) 0.0772	
IL15/IL15R	F (2, 12) = 0.8245	P=0.4618		
IL17A/CTLA8	F (2, 12) = 4.610	* P=0.0327	* 0.0481	
IL18	F (2, 12) = 11.93	** P=0.0014	** 0.0043	
IL19	F (2, 12) = 0.1844	P=0.8339		
IL22	F (2, 12) = 3.704	(trend) P=0.0559	ns	ns
IL23	F (2, 11) = 1.859	P=0.2016		
IL25/IL17	F (2, 12) = 2.525	P=0.1216		
IL27	F (2, 12) = 2.541	P=0.1202		
IL28	F (2, 12) = 0.4074	P=0.6743		
IL31	F (2, 12) = 1.705	P=0.2231		
IL33	F (2, 12) = 2.575	P=0.1174		
LIF	F (2, 12) = 9.315	** P=0.0036		(trend) 0.0685
MCSF	F (2, 11) = 5.825	* P=0.0188	(trend) 0.0971	
SRANKL	F (2, 12) = 3.675	(trend) P=0.0569	ns	ns
TNFA	F (2, 11) = 1.240	P=0.3269		
ENA78/LIX/CXCL5	F (2, 11) = 1.502	P=0.2650		
EOTAXIN/CCL11	F (2, 11) = 62.11	*** P<0.0001		*** 0.0001
GROA/KC/CXCL1	F (2, 11) = 8.318	** P=0.0063		* 0.0177
*IP10/CXCL10	F (2, 12) = 5.892	* P=0.0165	* 0.0155	
MCP1/CCL2	F (2, 10) = 1.720	P=0.2280		
*MCP3/CCL7	F (2, 12) = 5.783	* P=0.0174		(trend) 0.0820
*MIP1A/CCL3	F (2, 12) = 11.07	** P=0.0019	** 0.0035	
*MIP1B/CCL4	F (2, 12) = 5.374	* P=0.0216	* 0.050	
MIP2	F (2, 11) = 22.71	*** P=0.0001	*** 0.0008	
*RANTES/CCL5	F (2, 12) = 4.846	* P=0.0287	(trend) 0.0645	
BTC	F (2, 12) = 0.5796	P=0.5750		
LEPTIN	F (2, 12) = 3.148	(trend) P=0.0796	ns	ns
VEGF	F (2, 11) = 1.444	P=0.2774		
IL2RA	F (2, 11) = 5.514	* P=0.0219	ns	ns
IL7RA	F (2, 12) = 1.490	P=0.2643		
ST2/IL33R	F (2, 12) = 3.008	(trend) P=0.0873	ns	ns

Supplementary Table S3. Luminex Cytokine Data - ANOVA Table for 5XFAD Propranolol – male, plasma.

Supplemental Table S3. ANOVA Table for 5XFAD Propranolol - plasma.			posthoc comparisons (Sidak's)	
MARKER	one-way ANOVA		male 5XFAD-veh vs NC-veh	male 5XFAD-Prop vs 5XFAD-veh
BAFF	F (2, 11) = 1.764	P=0.2166		
GCSF	F (2, 11) = 5.594	P=0.0211		* 0.0306
GMCSF	F (2, 11) = 1.660	P=0.2345		
IFNA	F (2, 10) = 2.093	P=0.1741		
IFNG	F (2, 10) = 3.394	(trend) P=0.0750		
IL1A	F (2, 10) = 1.916	P=0.1975		
IL1B	F (2, 11) = 0.1331	P=0.8768		
IL2	F (2, 10) = 0.1300	P=0.8796		
IL3	F (2, 10) = 2.611	P=0.1223		
IL4	F (2, 9) = 8.003	* P=0.0101	ns	ns
IL5	F (2, 11) = 0.03793	P=0.9629		
IL6	F (2, 11) = 3.244	(trend) P=0.0781	ns	ns
IL7	F (2, 9) = 0.4150	P=0.6724		
IL9	F (2, 10) = 3.207	(trend) P=0.0839	(trend) 0.0693	
IL10	F (2, 10) = 0.7616	P=0.4922		
IL12P70	F (2, 10) = 2.187	P=0.1630		
IL13	F (2, 9) = 1.191	P=0.3476		
IL15/IL15R	F (2, 10) = 0.1760	P=0.8412		
IL17A/CTLA8	F (2, 10) = 2.068	P=0.1771		
IL18	F (2, 11) = 0.4257	P=0.6636		
IL19	F (2, 10) = 0.5443	P=0.5965		
IL22	F (2, 11) = 2.299	P=0.1465		
IL23	F (2, 10) = 0.3456	P=0.7159		
IL25/IL17	F (2, 10) = 0.1841	P=0.8346		
IL27	F (2, 9) = 0.8193	P=0.4711		
IL28	F (2, 11) = 0.5463	P=0.5940		
IL31	F (2, 11) = 0.1652	P=0.8498		
IL33	F (2, 10) = 0.5842	P=0.5755		
LIF	F (2, 11) = 1.496	P=0.2662		
MCSF	F (2, 9) = 1.285	P=0.3229		
SRANKL	F (2, 9) = 0.2306	P=0.7986		
TNFA	F (2, 11) = 1.210	P=0.3351		
ENA78/LIX/CXCL5	F (2, 9) = 0.9530	P=0.4213		
EOTAXIN/CCL11	F (2, 11) = 6.499	* P=0.0137	ns	ns
GROA/KC/CXCL1	F (2, 11) = 3.847	(trend) P=0.0541		* 0.0413
IP10/CXCL10	F (2, 11) = 3.007	(trend) P=0.0908		
MCP1/CCL2	F (2, 10) = 2.730	P=0.1132		
*MCP3/CCL7	F (2, 11) = 5.581	* P=0.0212		* 0.0251
*MIP1A/CCL3	F (2, 11) = 1.834	P=0.2055		
*MIP1B/CCL4	F (2, 11) = 8.239	** P=0.0065	ns	ns
MIP2	F (2, 9) = 7.875	* P=0.0105	(trend) 0.0535	
*RANTES/CCL5	F (2, 9) = 2.973	P=0.1021	(trend) 0.0973	
BTC	F (2, 11) = 0.7872	P=0.4791		
LEPTIN	F (2, 9) = 6.311	* P=0.0194	* 0.0497	* 0.0140
VEGF	F (2, 11) = 0.5409	P=0.5969		
IL2RA	F (2, 11) = 0.9915	P=0.4019		
IL7RA	F (2, 10) = 3.172	(trend) P=0.0857		
ST2/IL33R	F (2, 10) = 4.031	(trend) P=0.0520		(trend) 0.0852

Supplementary Table S4. Luminex Cytokine Data - ANOVA Table for 5XFAD adrb2 cKO – male, brain homogenate.

Supplemental Table S4 - Luminex Data ANOVA Table for ADRB2 conditional KO - male data									
MALE ADRB2 cKO (two-way ANOVA effects of GENE x cKO)									
	INTERACTION		GENE		cKO		Sidak's		
							wt-con v 5x-con	wt-cKO v 5X-cKO	wt-con v wt-cKO
									5X-con v 5X cKO
BAFF	F (1, 35) = 0.1392	P=0.7113	F (1, 35) = 68.35	*** P<0.0001	F (1, 35) = 0.8510	P=0.3626	*** <0.0001	*** <0.0001	0.8447
GCSF	F (1, 34) = 1.819	P=0.1863	F (1, 34) = 1.697	P=0.2014	F (1, 34) = 0.006124	P=0.9381	0.2274	0.9999	0.7863
GMCSF	F (1, 35) = 0.2760	P=0.6026	F (1, 35) = 4.450	* P=0.0421	F (1, 35) = 0.3523	P=0.5566	0.243	0.7261	0.9999
IFNA	F (1, 35) = 0.4035	P=0.5294	F (1, 35) = 0.8701	P=0.3573	F (1, 35) = 0.02387	P=0.8781	0.9992	0.7334	0.9704
IFNG	F (1, 34) = 0.8716	P=0.3571	F (1, 34) = 0.004477	P=0.9470	F (1, 34) = 0.02546	P=0.8742	0.9292	0.9568	0.9711
IL1A	F (1, 34) = 0.02435	P=0.8769	F (1, 34) = 0.08350	P=0.7744	F (1, 34) = 0.7818	P=0.3828	0.9964	0.9999	0.9259
IL1B	F (1, 35) = 0.06578	P=0.7991	F (1, 35) = 8.597	** P=0.0059	F (1, 35) = 1.705	P=0.2002	0.2302	0.1243	0.736
IL2	F (1, 35) = 0.006066	P=0.9384	F (1, 35) = 0.000674	P=0.9794	F (1, 35) = 0.03303	P=0.8568	0.9999	0.9999	0.9996
IL3	F (1, 34) = 2.066	P=0.1597	F (1, 34) = 2.066	P=0.1597	F (1, 34) = 0.4016	P=0.5305	0.1658	0.9999	0.9669
IL4	F (1, 34) = 1.141	P=0.2929	F (1, 34) = 3.000	P=0.0923	F (1, 34) = 1.364	P=0.2510	0.1847	0.985	0.4086
IL5	F (1, 35) = 0.6422	P=0.4283	F (1, 35) = 1.794	P=0.1890	F (1, 35) = 0.2737	P=0.6042	0.9921	0.4636	0.9995
IL6	F (1, 33) = 0.4877	P=0.4899	F (1, 33) = 0.8114	P=0.3742	F (1, 33) = 0.04404	P=0.8351	0.6981	0.9998	0.9519
IL7	F (1, 35) = 0.3107	P=0.5808	F (1, 35) = 4.979e-00	P=0.9944	F (1, 35) = 0.001792	P=0.9665	0.9914	0.9915	0.994
IL9	F (1, 34) = 0.000703	P=0.9790	F (1, 34) = 2.482	P=0.1244	F (1, 34) = 0.9994	P=0.3245	0.7085	0.7329	0.9292
IL10	F (1, 34) = 3.294	P=0.0784 (trend)	F (1, 34) = 0.08340	P=0.7745	F (1, 34) = 1.797	P=0.1889	0.4387	0.7622	0.9959
IL12P70	F (1, 35) = 2.277	P=0.1403	F (1, 35) = 0.1247	P=0.7261	F (1, 35) = 0.009487	P=0.9230	0.5707	0.891	0.716
IL13	F (1, 35) = 0.3860	P=0.5384	F (1, 35) = 0.1199	P=0.7312	F (1, 35) = 0.3673	P=0.5484	0.9994	0.9395	0.9999
IL15/IL15R	F (1, 35) = 0.2988	P=0.5881	F (1, 35) = 0.2346	P=0.6311	F (1, 35) = 0.06516	P=0.8000	0.9179	0.9999	0.9687
IL17A/CTLA8	F (1, 34) = 0.03408	P=0.8546	F (1, 34) = 1.943	P=0.1723	F (1, 34) = 2.576	P=0.1177	0.6967	0.8802	0.8055
IL18	F (1, 35) = 0.02349	P=0.8791	F (1, 35) = 1.339	P=0.2551	F (1, 35) = 0.8315	P=0.3681	0.8258	0.9314	0.9164
IL19	F (1, 35) = 0.000797	P=0.9776	F (1, 35) = 4.414	P=0.0429	F (1, 35) = 1.777	P=0.1911	0.4426	0.495	0.82
IL22	F (1, 34) = 5.320	* P=0.0273	F (1, 34) = 1.860	P=0.1816	F (1, 34) = 0.9325	P=0.3410	0.0542	0.9421	0.1171
IL23	F (1, 33) = 2.440	P=0.1278	F (1, 33) = 3.106	P=0.0873 (trend)	F (1, 33) = 0.003119	P=0.9558	0.9998	0.1022	0.7437
IL25/IL17	F (1, 35) = 0.3035	P=0.5852	F (1, 35) = 0.9567	P=0.3347	F (1, 35) = 0.08501	P=0.7723	0.9968	0.7506	0.9627
IL27	F (1, 35) = 0.01802	P=0.8940	F (1, 35) = 2.683	P=0.1104	F (1, 35) = 0.5256	P=0.4733	0.6151	0.7617	0.9899
IL28	F (1, 35) = 0.9567	P=0.3347	F (1, 35) = 0.2392	P=0.6278	F (1, 35) = 3.229	P=0.0810 (trend)	0.76	0.9951	0.2223
IL31	F (1, 34) = 0.4910	P=0.4882	F (1, 34) = 1.964	P=0.1701	F (1, 34) = 0.0002536	P=0.9874	0.4394	0.9819	0.9803
IL33	F (1, 34) = 0.8356	P=0.3671	F (1, 34) = 0.04109	P=0.8406	F (1, 34) = 0.5677	P=0.4564	0.8982	0.9787	0.9999
*LIF	F (1, 34) = 0.005415	P=0.9418	F (1, 34) = 22.04	*** P<0.0001	F (1, 34) = 0.3030	P=0.5856	0.0058	0.0123	0.9869
MCSF	F (1, 34) = 0.1900	P=0.6657	F (1, 34) = 6.868	* P=0.0130	F (1, 34) = 0.4152	P=0.5236	0.1261	0.4565	0.9086
SRANKL	F (1, 34) = 0.04875	P=0.8266	F (1, 34) = 0.9506	P=0.3364	F (1, 34) = 0.1338	P=0.7168	0.9707	0.8844	0.9999
TNFA	F (1, 34) = 0.002278	P=0.9622	F (1, 34) = 1.308	P=0.2608	F (1, 34) = 0.006738	P=0.9351	0.8628	0.9128	0.9999
0									
ENA78/IL1/CXCL5	F (1, 35) = 0.06134	P=0.8058	F (1, 35) = 1.559	P=0.2201	F (1, 35) = 0.7632	P=0.3883	0.9256	0.7648	0.9874
EOTAXIN/CCL11	F (1, 35) = 0.1134	P=0.7383	F (1, 35) = 0.7567	P=0.3903	F (1, 35) = 2.183	P=0.1485	0.9924	0.8751	0.8955
GROA/KC/CXCL1	F (1, 35) = 0.6658	P=0.4200	F (1, 35) = 0.9317	P=0.3411	F (1, 35) = 0.9942	P=0.3256	0.6106	0.9999	0.6187
*IP10/CXCL10	F (1, 36) = 0.08806	P=0.7684	F (1, 36) = 85.39	*** P<0.0001	F (1, 36) = 2.521	P=0.1211	0.0001	0.0001	0.5941
*MCP1/CCL2	F (1, 35) = 1.611	P=0.2128	F (1, 35) = 1.262	P=0.2689	F (1, 35) = 0.9888	P=0.3269	0.9999	0.3554	0.9995
*MCP3/CCL7	F (1, 34) = 0.1284	P=0.7223	F (1, 34) = 11.72	** P=0.0016	F (1, 34) = 1.042	P=0.3145	0.1411	0.045	0.9851
*MIP1/CCL3	F (1, 35) = 0.8145	P=0.3729	F (1, 35) = 141.9	*** P<0.0001	F (1, 35) = 0.1139	P=0.7378	0.0001	0.0001	0.9914
*MIP1B/CCL4	F (1, 35) = 0.02258	P=0.8814	F (1, 35) = 60.85	*** P<0.0001	F (1, 35) = 0.005541	P=0.9411	0.0001	0.0001	0.9999
MIP2	F (1, 34) = 0.7632	P=0.3884	F (1, 34) = 4.779	* P=0.0358	F (1, 34) = 0.3940	P=0.5344	0.1422	0.8322	0.9996
*RANTES/CCL5	F (1, 35) = 0.02904	P=0.8657	F (1, 35) = 0.6350	P=0.4309	F (1, 35) = 0.1260	P=0.7248	0.9337	0.9874	0.9935
0									
BTC	F (1, 35) = 0.01165	P=0.9147	F (1, 35) = 1.097	P=0.3020	F (1, 35) = 0.1368	P=0.7137	0.94	0.8911	0.9996
LEPTIN	F (1, 35) = 0.8437	P=0.3646	F (1, 35) = 3.411	P=0.0732 (trend)	F (1, 35) = 0.3758	P=0.5438	0.2036	0.9475	0.7495
VEGF	F (1, 35) = 1.015	P=0.3207	F (1, 35) = 0.2390	P=0.6280	F (1, 35) = 0.08646	P=0.7705	0.9932	0.7649	0.8425
0									
IL2RA	F (1, 35) = 0.1514	P=0.6996	F (1, 35) = 0.6647	P=0.4204	F (1, 35) = 0.4396	P=0.5116	0.9968	0.8759	0.9198
IL7RA	F (1, 35) = 0.4950	P=0.4863	F (1, 35) = 1.144	P=0.2922	F (1, 35) = 1.027	P=0.3179	0.9982	0.6379	0.6647
ST2/IL33R	F (1, 35) = 0.5490	P=0.4637	F (1, 35) = 1.592	P=0.2153	F (1, 35) = 0.4141	P=0.5241	0.502	0.9937	0.9999

Supplementary Table S5. Luminex Cytokine Data - ANOVA Table for 5XFAD adrb2 cKO – female, brain homogenate.

Supplemental Table S5 - Luminex Data ANOVA Table for ADRB2 conditional KO - female data									
FEMALE ADRB2 cKO (two-way ANOVA effects of SEX x TREATMENT)									
	INTERACTION		GENE		cKO		Sidak's		
							wt-con v 5x-con	wt-cKO v 5X-cKO	wt-con v wt-cKO
									5X-con v 5X cKO
BAFF	F (1, 29) = 4.671	* P=0.0391	F (1, 29) = 82.74	*** P<0.0001	F (1, 29) = 3.890	P=0.0582 (trend)	*** 0.0001	*** 0.0001	0.9999
GCSF	F (1, 28) = 2.401	P=0.1325	F (1, 28) = 5.450	* P=0.0270	F (1, 28) = 0.1282	P=0.7230	0.0354	0.9721	0.9203
GMCSF	F (1, 29) = 5.429	* P=0.0270	F (1, 29) = 31.16	*** P<0.0001	F (1, 29) = 4.002	P=0.0549 (trend)	*** 0.0001	0.106	0.9993
IFNA	F (1, 28) = 0.3197	P=0.5763	F (1, 28) = 2.661	P=0.1140	F (1, 28) = 1.500	P=0.2309	0.4492	0.9076	0.7102
IFNG	F (1, 29) = 0.1945	P=0.6625	F (1, 29) = 3.468	P=0.0727 (trend)	F (1, 29) = 0.03950	P=0.8438	0.7953	0.376	0.9998
IL1A	F (1, 29) = 0.3982	P=0.5329	F (1, 29) = 2.981	P=0.0949	F (1, 29) = 0.01639	P=0.8990	0.9076	0.3537	0.9964
IL1B	F (1, 29) = 0.8030	P=0.3776	F (1, 29) = 18.96	*** P=0.0002	F (1, 29) = 0.07143	P=0.7912	0.0038	0.0767	0.9915
IL2	F (1, 28) = 4.338	* P=0.0465	F (1, 28) = 0.000	P>0.9999	F (1, 28) = 0.02311	P=0.8803	0.4828	0.4828	0.6525
IL3	F (1, 29) = 0.01650	P=0.8987	F (1, 29) = 4.052	P=0.0535 (trend)	F (1, 29) = 0.4439	P=0.5105	0.4633	0.568	0.9953
IL4	F (1, 29) = 0.1168	P=0.7350	F (1, 29) = 3.763	P=0.0622 (trend)	F (1, 29) = 0.05480	P=0.8165	0.4017	0.706	0.9939
IL5	F (1, 28) = 0.8813	P=0.3559	F (1, 28) = 12.72	** P=0.0013	F (1, 28) = 0.1361	P=0.7150	0.0163	0.2474	0.9939
IL6	F (1, 29) = 0.8877	P=0.3539	F (1, 29) = 2.211	P=0.1478	F (1, 29) = 0.3294	P=0.5704	0.9925	0.3255	0.8211
IL7	F (1, 29) = 1.936	P=0.1747	F (1, 29) = 3.403	P=0.0753 (trend)	F (1, 29) = 0.0004796	P=0.9827	0.9963	0.1085	0.8549
IL9	F (1, 29) = 0.6373	P=0.4312	F (1, 29) = 0.04168	P=0.8397	F (1, 29) = 0.4612	P=0.5024	0.9312	0.9888	0.9999
IL10	F (1, 26) = 4.889	* P=0.0360	F (1, 26) = 4.474	* P=0.0442	F (1, 26) = 0.3295	P=0.5709	0.017	0.9999	0.2933
IL12P70	F (1, 29) = 1.734	P=0.1982	F (1, 29) = 1.098	P=0.3033	F (1, 29) = 0.1261	P=0.7251	0.9995	0.3507	0.7641
IL13	F (1, 29) = 0.5643	P=0.4586	F (1, 29) = 6.198	* P=0.0188	F (1, 29) = 0.03008	P=0.8635	0.6535	0.1077	0.9938
IL15/IL15R	F (1, 29) = 0.06168	P=0.8056	F (1, 29) = 12.29	** P=0.0015	F (1, 29) = 1.696	P=0.2030	(trend) 0.0527	0.105	0.9442
IL17A/C/TLA8	F (1, 29) = 0.001709	P=0.9673	F (1, 29) = 5.881	* P=0.0218	F (1, 29) = 0.03566	P=0.8515	0.3275	0.3432	0.9999
IL18	F (1, 29) = 0.3299	P=0.5702	F (1, 29) = 11.04	** P=0.0024	F (1, 29) = 0.3690	P=0.5483	0.0418	0.2182	0.9999
IL19	F (1, 29) = 0.08797	P=0.7689	F (1, 29) = 7.787	** P=0.0092	F (1, 29) = 0.2855	P=0.5972	0.1465	0.3013	0.9998
IL22	F (1, 29) = 1.036	P=0.3173	F (1, 29) = 6.069	* P=0.0199	F (1, 29) = 1.564	P=0.2211	0.0814	0.7745	0.9998
IL23	F (1, 28) = 1.540	P=0.2249	F (1, 28) = 0.2818	P=0.5997	F (1, 28) = 0.3117	P=0.5811	0.9817	0.5966	0.8691
IL25/IL17	F (1, 29) = 0.6038	P=0.4434	F (1, 29) = 1.105	P=0.3018	F (1, 29) = 0.09792	P=0.7566	0.9995	0.5954	0.9374
IL27	F (1, 28) = 0.007137	P=0.9333	F (1, 28) = 1.439	P=0.2403	F (1, 28) = 3.309	P=0.0796 (trend)	0.9054	0.8349	0.7328
IL28	F (1, 29) = 1.288	P=0.2657	F (1, 29) = 1.303	P=0.2631	F (1, 29) = 0.7999	P=0.3785	0.404	0.9999	0.9998
IL31	F (1, 29) = 0.1529	P=0.6986	F (1, 29) = 7.306	* P=0.0114	F (1, 29) = 0.4419	P=0.5115	0.145	0.3723	0.9997
IL33	F (1, 28) = 0.9206	P=0.3455	F (1, 28) = 2.529	P=0.1230	F (1, 28) = 0.3073	P=0.5838	0.3071	0.9855	0.8167
*LIF	F (1, 28) = 7.745	** P=0.0095	F (1, 28) = 51.62	*** P<0.0001	F (1, 28) = 8.203	** P=0.0078	0.0001	0.0169	0.9999
MCSF	F (1, 29) = 0.1536	P=0.6980	F (1, 29) = 25.63	*** P<0.0001	F (1, 29) = 0.2626	P=0.6122	0.0109	0.0021	0.9999
SRANKL	F (1, 27) = 0.2009	P=0.6575	F (1, 27) = 2.667	P=0.1141	F (1, 27) = 0.01451	P=0.9050	0.4552	0.8889	0.9993
TNFA	F (1, 29) = 0.6396	P=0.4304	F (1, 29) = 2.435	P=0.1295	F (1, 29) = 0.01558	P=0.9015	0.9739	0.3526	0.9647
0									
ENA78/LIX/CXCL5	F (1, 29) = 0.1117	P=0.7406	F (1, 29) = 10.41	** P=0.0031	F (1, 29) = 0.1889	P=0.6671	(trend) 0.0719	0.1791	0.9999
EOTAXIN/CXCL11	F (1, 29) = 0.009336	P=0.9237	F (1, 29) = 0.01283	P=0.9106	F (1, 29) = 1.965	P=0.1716	0.9998	0.9999	0.8867
GROA/KC/CXCL1	F (1, 29) = 0.07382	P=0.7878	F (1, 29) = 7.079	* P=0.0126	F (1, 29) = 0.2228	P=0.6405	0.3576	0.1694	0.984
*IP10/CXCL10	F (1, 30) = 2.039	P=0.1636	F (1, 30) = 42.39	*** P<0.0001	F (1, 30) = 0.2364	P=0.6303	0.0001	0.0039	0.9632
MCP3/CCL2	F (1, 29) = 0.4394	P=0.5126	F (1, 29) = 9.717	** P=0.0041	F (1, 29) = 0.02297	P=0.8806	0.0506	0.3159	0.9961
*MCP3/CCL7	F (1, 28) = 2.654	P=0.1145	F (1, 28) = 6.834	* P=0.0142	F (1, 28) = 2.633	P=0.1159	0.0223	0.9333	0.9999
*MIP1A/CCL3	F (1, 29) = 5.568	* P=0.0252	F (1, 29) = 74.21	*** P<0.0001	F (1, 29) = 5.884	* P=0.0217	0.0001	0.0005	0.9999
*MIP1B/CCL4	F (1, 27) = 3.676	P=0.0659 (trend)	F (1, 27) = 84.81	***P<0.0001	F (1, 27) = 3.440	P=0.0746 (trend)	0.0001	0.0001	0.9999
MIP2	F (1, 29) = 1.684	P=0.2046	F (1, 29) = 7.347	* P=0.0112	F (1, 29) = 0.06257	P=0.8042	0.0347	0.7886	0.81
*RANTES/CCL5	F (1, 29) = 0.4064	P=0.5288	F (1, 29) = 19.37	*** P=0.0001	F (1, 29) = 0.04632	P=0.8311	0.052	0.0047	0.9736
0									
BTC	F (1, 29) = 2.878	P=0.1005	F (1, 29) = 0.4141	P=0.5250	F (1, 29) = 0.001093	P=0.9738	0.9189	0.3608	0.7417
LEPTIN	F (1, 29) = 1.180	P=0.2863	F (1, 29) = 13.34	** P=0.0010	F (1, 29) = 0.1065	P=0.7465	0.2912	0.0083	0.8551
VEGF	F (1, 29) = 2.555	P=0.1208	F (1, 29) = 1.088	P=0.3056	F (1, 29) = 0.6038	P=0.4434	0.2657	0.9913	0.977
0									
IL2RA	F (1, 28) = 0.2541	P=0.6181	F (1, 28) = 0.08050	P=0.7787	F (1, 28) = 0.1039	P=0.7496	0.9714	0.9998	0.9999
IL7RA	F (1, 29) = 0.0002233	P=0.9882	F (1, 29) = 3.484	P=0.0721 (trend)	F (1, 29) = 0.9794	P=0.3305	0.5853	0.5841	0.9527
ST2/IL33R	F (1, 28) = 0.9916	P=0.3279	F (1, 28) = 0.8278	P=0.3707	F (1, 28) = 0.09308	P=0.7625	0.5834	0.9999	0.9874

Supplementary Table S6. Luminex Cytokine Data - ANOVA Table for 5XFAD adrb1 cKO – male, brain homogenate.

Supplemental Table S6 - Luminex Data ANOVA Table for ADRB1 conditional KO - male data										
MALE ADRB1 cKO (two-way ANOVA effects of SEX x TREATMENT)										
	INTERACTION		GENE		cKO		Sidak's			
							wt-con v 5X-con	wt-cKO v 5X-cKO	wt-con v wt-cKO	5X-con v 5X cKO
BAFF	F (1, 44) = 3.660	P=0.0623 (trend)	F (1, 44) = 54.38	*** P<0.0001	F (1, 44) = 2.102	P=0.1542	*** 0.0001	** 0.0015	0.9958	(trend) 0.0845
GCSF	F (1, 44) = 1.806	P=0.1859	F (1, 44) = 0.000	P>0.9999	F (1, 44) = 0.5769	P=0.4516	0.8184	0.8184	0.9897	0.4633
GMCSF	F (1, 44) = 1.576	P=0.2160	F (1, 44) = 14.74	*** P=0.0004	F (1, 44) = 0.4416	P=0.5098	** 0.0032	0.2661	0.5513	0.9893
IFNA	F (1, 44) = 1.499	P=0.2274	F (1, 44) = 0.4307	P=0.5151	F (1, 44) = 0.002549	P=0.9600	0.5705	0.9908	0.8797	0.8448
IFNG	F (1, 44) = 1.887	P=0.1765	F (1, 44) = 0.006756	P=0.9349	F (1, 44) = 0.6189	P=0.4357	0.7718	0.8385	0.4369	0.9895
IL1A	F (1, 44) = 0.08166	P=0.7764	F (1, 44) = 2.470	P=0.1232	F (1, 44) = 0.7349	P=0.3959	0.5818	0.8406	0.8894	0.9905
IL1B	F (1, 44) = 4.463	* P=0.0404	F (1, 44) = 4.851	* P=0.0329	F (1, 44) = 0.2444	P=0.6235	* 0.0153	0.9999	0.2584	0.6981
IL2	F (1, 44) = 0.3884	P=0.5364	F (1, 44) = 1.536	P=0.2218	F (1, 44) = 0.3366	P=0.5647	0.5794	0.9874	0.8699	0.9999
IL3	F (1, 44) = 1.709	P=0.1979	F (1, 44) = 2.088	P=0.1555	F (1, 44) = 0.004735	P=0.9455	0.2126	0.9999	0.8054	0.8578
IL4	F (1, 44) = 1.136	P=0.2923	F (1, 44) = 0.07361	P=0.7874	F (1, 44) = 0.1818	P=0.6719	0.821	0.968	0.7559	0.9856
IL5	F (1, 43) = 0.1429	P=0.7073	F (1, 43) = 1.167	P=0.2861	F (1, 43) = 0.2362	P=0.6294	0.7779	0.9788	0.9999	0.9552
IL6	F (1, 44) = 0.04279	P=0.8371	F (1, 44) = 2.541	P=0.1181	F (1, 44) = 0.0001481	P=0.9903	0.8009	0.6096	0.9999	0.9998
IL7	F (1, 44) = 0.2521	P=0.6181	F (1, 44) = 0.1537	P=0.6969	F (1, 44) = 0.3580	P=0.5527	0.9999	0.9514	0.9999	0.9021
IL9	F (1, 44) = 0.2405	P=0.6263	F (1, 44) = 0.1627	P=0.6886	F (1, 44) = 0.1564	P=0.6944	0.9999	0.9515	0.9529	0.9999
IL10	F (1, 40) = 0.07494	P=0.7857	F (1, 40) = 4.375	* P=0.0429	F (1, 40) = 0.01109	P=0.9167	0.3503	0.6026	0.9981	0.9999
IL12P70	F (1, 44) = 0.03521	P=0.8520	F (1, 44) = 0.1263	P=0.7240	F (1, 44) = 0.4881	P=0.4884	0.9922	0.9999	0.9938	0.9529
IL13	F (1, 44) = 0.05049	P=0.8232	F (1, 44) = 6.369	* P=0.0153	F (1, 44) = 2.584	P=0.1151	0.2139	0.3759	0.8027	0.5942
IL15/IL15R	F (1, 44) = 0.3379	P=0.5640	F (1, 44) = 1.621	P=0.2096	F (1, 44) = 0.3379	P=0.5640	0.5833	0.9807	0.8833	0.9999
IL17A/ITLA8	F (1, 44) = 0.6108	P=0.4387	F (1, 44) = 0.02357	P=0.8787	F (1, 44) = 0.5266	P=0.4719	0.9865	0.9433	0.9999	0.7492
IL18	F (1, 44) = 0.3146	P=0.5777	F (1, 44) = 7.776	** P=0.0078	F (1, 44) = 0.04340	P=0.8359	0.0863 (trend)	0.4068	0.9715	0.9985
IL19	F (1, 44) = 0.2405	P=0.6263	F (1, 44) = 0.1627	P=0.6886	F (1, 44) = 0.1564	P=0.6944	0.9999	0.9515	0.9529	0.9999
IL22	F (1, 41) = 7.695	** P=0.0083	F (1, 41) = 8.504	** P=0.0057	F (1, 41) = 0.02806	P=0.8678	** 0.0011	0.9999	0.188	0.2301
IL23	F (1, 40) = 0.002888	P=0.9574	F (1, 40) = 0.1673	P=0.6847	F (1, 40) = 2.488	P=0.1226	0.9954	0.9986	0.6913	0.7441
IL25/IL17	F (1, 43) = 0.7836	P=0.3810	F (1, 43) = 0.1491	P=0.7013	F (1, 43) = 0.8893	P=0.3509	0.8408	0.9946	0.9999	0.6063
IL27	F (1, 43) = 0.1517	P=0.6988	F (1, 43) = 0.3645	P=0.5492	F (1, 43) = 1.006	P=0.3215	0.9329	0.9998	0.9881	0.7923
IL28	F (1, 44) = 0.7632	P=0.3871	F (1, 44) = 0.04064	P=0.8412	F (1, 44) = 0.05017	P=0.8238	0.9093	0.9826	0.9029	0.9847
IL31	F (1, 43) = 2.276	P=0.1387	F (1, 43) = 2.633	P=0.1120	F (1, 43) = 6.718e-006	P=0.9979	0.1293	0.9999	0.7573	0.74
IL33	F (1, 44) = 1.229	P=0.2736	F (1, 44) = 0.1994	P=0.6574	F (1, 44) = 1.174	P=0.2844	0.9836	0.7274	0.9999	0.4225
*LIF	F (1, 44) = 4.577	* P=0.0380	F (1, 44) = 10.20	** P=0.0026	F (1, 44) = 0.1163	P=0.7347	** 0.0019	0.9149	0.6108	0.3033
MCSF	F (1, 43) = 1.219	P=0.2758	F (1, 43) = 15.19	*** P=0.0003	F (1, 43) = 0.5667	P=0.4557	** 0.0035	0.2099	0.5925	0.9985
SRANKL	F (1, 44) = 1.553	P=0.2193	F (1, 44) = 0.3985	P=0.5312	F (1, 44) = 0.06294	P=0.8031	0.572	0.9875	0.9298	0.7537
TNFA	F (1, 44) = 0.2687	P=0.6068	F (1, 44) = 0.01770	P=0.8948	F (1, 44) = 0.01770	P=0.8948	0.9845	0.9979	0.9845	0.9979
ENA78/ILK/CXCL5	F (1, 43) = 1.156	P=0.2883	F (1, 43) = 8.065	** P=0.0069	F (1, 43) = 1.246	P=0.2705	* 0.0302	0.6371	0.9999	0.4341
EOTAXIN/CCL11	F (1, 44) = 0.2621	P=0.6112	F (1, 44) = 3.992	(trend) P=0.0519	F (1, 44) = 0.1140	P=0.7373	0.2924	0.7587	0.9999	0.9594
GROA/KC/CXCL1	F (1, 43) = 1.114	P=0.2970	F (1, 43) = 4.172	* P=0.0473	F (1, 43) = 1.046	P=0.3121	0.1223	0.9343	0.9999	0.4861
*IP10/CXCL10	F (1, 43) = 5.582	* P=0.0227	F (1, 43) = 61.77	*** P<0.0001	F (1, 43) = 0.02774	P=0.8685	*** 0.0001	** 0.0012	0.432	0.2758
MCP3/CCL2	F (1, 44) = 0.05688	P=0.8126	F (1, 44) = 14.20	*** P=0.0005	F (1, 44) = 0.1926	P=0.6629	* 0.0274	(trend) 0.0639	0.9821	0.9998
*MCP3/CCL7	F (1, 44) = 1.927	P=0.1720	F (1, 44) = 32.39	*** P<0.0001	F (1, 44) = 0.2489	P=0.6203	*** 0.0001	* 0.0157	0.9523	0.5672
*MIP1A/CCL3	F (1, 44) = 1.904	P=0.1746	F (1, 44) = 53.68	*** P<0.0001	F (1, 44) = 1.448	P=0.2353	*** 0.0001	** 0.0005	0.9999	0.2665
*MIP1B/CCL4	F (1, 43) = 0.2825	P=0.5978	F (1, 43) = 40.37	*** P<0.0001	F (1, 43) = 0.2313	P=0.6330	*** 0.0001	*** 0.0008	0.9999	0.9229
MIP2	F (1, 44) = 0.2072	P=0.6512	F (1, 44) = 6.520	* P=0.0142	F (1, 44) = 0.3171	P=0.5762	0.1472	0.4656	0.9999	0.9242
*RANTES/CCL5	F (1, 43) = 6.186	* P=0.0168	F (1, 43) = 17.78	*** P=0.0001	F (1, 43) = 0.3642	P=0.5493	*** 0.0001	0.635	0.1374	0.5589
BTC	F (1, 44) = 0.04188	P=0.8388	F (1, 44) = 0.6918	P=0.4100	F (1, 44) = 0.3530	P=0.5555	0.9866	0.9196	0.9674	0.9978
LEPTIN	F (1, 44) = 2.499	P=0.1210	F (1, 44) = 16.81	*** P=0.0002	F (1, 44) = 0.000	P>0.9999	** 0.0009	0.2848	0.7155	0.7155
VEGF	F (1, 44) = 0.4383	P=0.5114	F (1, 44) = 0.4972	P=0.4845	F (1, 44) = 1.111	P=0.2976	0.8091	0.9999	0.9978	0.6511
IL2RA	F (1, 43) = 3.044	(trend) P=0.0882	F (1, 43) = 0.7180	P=0.4015	F (1, 43) = 0.004328	P=0.9479	0.2737	0.9489	0.6149	0.6601
IL7RA	F (1, 44) = 1.547	P=0.2202	F (1, 44) = 2.119	P=0.1525	F (1, 44) = 0.01571	P=0.9008	0.2286	0.9998	0.8969	0.8083
ST2/IL33R	F (1, 44) = 1.547	P=0.2201	F (1, 44) = 2.362	P=0.1315	F (1, 44) = 0.007735	P=0.9303	0.9993	0.2045	0.8231	0.8854

Supplementary Table S7. Luminex Cytokine Data - ANOVA Table for 5XFAD adrb1 cKO – female, brain homogenate.

Supplemental Table S7 - Luminex Data ANOVA Table for ADRB1 conditional KO - female data														
FEMALE ADRB1 cKO (two-way ANOVA effects of SEX x TREATMENT)											Sidak's			
	INTERACTION		GENE		cKO		wt-con v 5x-con	wt-cKO v 5X-cKO	wt-con v wt-cKO	5X-con v 5X cKO				
BAFF	F (1, 44) = 0.005189	P=0.9429	F (1, 44) = 71.51	*** P<0.0001	F (1, 44) = 0.01525	P=0.9023	*** 0.0001	*** 0.0001	0.9999	0.9999				
GCSF	F (1, 44) = 0.9164	P=0.3437	F (1, 44) = 0.1539	P=0.6967	F (1, 44) = 0.01995	P=0.8883	0.9909	0.8161	0.9648	0.9027				
GMCSF	F (1, 44) = 0.03757	P=0.8472	F (1, 44) = 7.282	** P=0.0098	F (1, 44) = 0.7738	P=0.3838	0.1746	0.2944	0.9097	0.9813				
IFNA	F (1, 44) = 2.144	P=0.1503	F (1, 44) = 0.3546	P=0.5546	F (1, 44) = 5.442	* P=0.0243	0.4839	0.9561	* 0.0402	0.9561				
IFNG	F (1, 44) = 0.7616	P=0.3876	F (1, 44) = 10.97	** P=0.0019	F (1, 44) = 0.01729	P=0.8960	0.3192	* 0.0197	0.9277	0.9751				
IL1A	F (1, 44) = 0.03599	P=0.8504	F (1, 44) = 4.131	* P=0.0482	F (1, 44) = 0.3239	P=0.5722	0.4091	0.589	0.9729	0.998				
IL1B	F (1, 44) = 0.06511	P=0.7998	F (1, 44) = 14.06	*** P=0.0005	F (1, 44) = 1.341	P=0.2531	* 0.0276	(trend) 0.0679	0.7901	0.9497				
IL2	F (1, 44) = 0.1104	P=0.7413	F (1, 44) = 0.6257	P=0.4332	F (1, 44) = 0.08109	P=0.7772	0.9959	0.8954	0.9999	0.9874				
IL3	F (1, 44) = 0.02300	P=0.8802	F (1, 44) = 0.2981	P=0.5878	F (1, 44) = 0.1113	P=0.7402	0.9977	0.9801	0.9999	0.9949				
IL4	F (1, 44) = 0.1964	P=0.6598	F (1, 44) = 0.09411	P=0.7605	F (1, 44) = 0.02353	P=0.8788	0.9999	0.974	0.9889	0.9993				
IL5	F (1, 44) = 5.969	* P=0.0186	F (1, 44) = 6.728	* P=0.0128	F (1, 44) = 0.003639	P=0.9522	0.9999	** 0.0036	0.2948	0.3413				
IL6	F (1, 44) = 0.4153	P=0.5227	F (1, 44) = 1.831	P=0.1829	F (1, 44) = 0.2658	P=0.6088	0.5135	0.9789	0.8841	0.9999				
IL7	F (1, 44) = 0.6542	P=0.4230	F (1, 44) = 1.109	P=0.2980	F (1, 44) = 0.1520	P=0.6985	0.9997	0.5796	0.8715	0.9971				
IL9	F (1, 44) = 0.0001954	P=0.9889	F (1, 44) = 0.9303	P=0.3401	F (1, 44) = 0.01468	P=0.9041	0.9337	0.94	0.9999	0.9999				
IL10	F (1, 38) = 0.03555	P=0.8514	F (1, 38) = 0.4044	P=0.5286	F (1, 38) = 0.4055	P=0.5281	0.9959	0.9668	0.9598	0.9966				
IL12P70	F (1, 44) = 1.206	P=0.2782	F (1, 44) = 6.015	* P=0.0182	F (1, 44) = 0.4474	P=0.5071	0.8141	(trend) 0.0617	0.9968	0.6263				
IL13	F (1, 44) = 1.924	P=0.1724	F (1, 44) = 4.177	* P=0.0470	F (1, 44) = 0.008152	P=0.9285	0.9841	(trend) 0.0755	0.8365	0.7625				
IL15/IL15R	F (1, 44) = 1.303	P=0.2599	F (1, 44) = 0.06730	P=0.7965	F (1, 44) = 0.0006730	P=0.9794	0.7952	0.9537	0.8977	0.8817				
IL17A/ACTLA8	F (1, 44) = 0.1125	P=0.7389	F (1, 44) = 1.669	P=0.2032	F (1, 44) = 0.2287	P=0.6349	0.6938	0.9387	0.9652	0.9999				
IL18	F (1, 43) = 1.829	P=0.1833	F (1, 43) = 21.47	*** P<0.0001	F (1, 43) = 0.1852	P=0.6691	(trend) 0.0913	*** 0.0006	0.9479	0.6089				
IL19	F (1, 44) = 0.0001954	P=0.9889	F (1, 44) = 0.9303	P=0.3401	F (1, 44) = 0.01468	P=0.9041	0.9337	0.94	0.9999	0.9999				
IL22	F (1, 42) = 0.07733	P=0.7823	F (1, 42) = 0.008865	P=0.9254	F (1, 42) = 0.3037	P=0.5845	0.9999	0.9982	0.9994	0.9655				
IL23	F (1, 42) = 0.8745	P=0.3551	F (1, 42) = 4.226	* P=0.0461	F (1, 42) = 1.298	P=0.2610	0.8964	0.1521	0.9998	0.4983				
IL25/IL17	F (1, 44) = 1.952	P=0.1694	F (1, 44) = 0.1593	P=0.6917	F (1, 44) = 1.683	P=0.2013	0.9292	0.6119	0.2301	0.9999				
IL27	F (1, 44) = 0.2664	P=0.6083	F (1, 44) = 0.7400	P=0.3943	F (1, 44) = 0.007400	P=0.9318	0.9987	0.8053	0.9968	0.9885				
IL28	F (1, 44) = 1.274	P=0.2652	F (1, 44) = 1.714	P=0.1973	F (1, 44) = 0.000	P>0.9999	0.9999	0.3195	0.8938	0.8938				
IL31	F (1, 42) = 0.3677	P=0.5475	F (1, 42) = 6.337	* P=0.0157	F (1, 42) = 0.3677	P=0.5475	0.5563	0.1245	0.9999	0.8575				
IL33	F (1, 44) = 0.4474	P=0.5071	F (1, 44) = 1.582	P=0.2150	F (1, 44) = 0.2707	P=0.6055	0.5478	0.9894	0.8746	0.9999				
*LIF	F (1, 43) = 0.2421	P=0.6252	F (1, 43) = 26.96	*** P<0.0001	F (1, 43) = 3.799e-005	P=0.9951	** 0.0081	*** 0.0008	0.9947	0.9946				
MCSF	F (1, 44) = 2.227	P=0.1427	F (1, 44) = 19.10	*** P<0.0001	F (1, 44) = 1.010	P=0.3205	0.1784	*** 0.0006	0.9948	0.2971				
SRANKL	F (1, 44) = 6.543	* P=0.0141	F (1, 44) = 0.02434	P=0.8767	F (1, 44) = 0.03161	P=0.8597	0.2242	0.3336	0.3423	0.2176				
TNFA	F (1, 44) = 0.3913	P=0.5348	F (1, 44) = 4.248	* P=0.0452	F (1, 44) = 0.2692	P=0.6064	0.7807	0.2326	0.9999	0.8889				
ENA78/LIX/CXCL5	F (1, 44) = 0.003151	P=0.9555	F (1, 44) = 10.01	** P=0.0028	F (1, 44) = 0.1147	P=0.7364	0.1265	0.1062	0.9977	0.9994				
EOTAXIN/CXCL11	F (1, 44) = 0.1636	P=0.6878	F (1, 44) = 2.128	P=0.1517	F (1, 44) = 0.1058	P=0.7465	0.9149	0.579	0.9765	0.9999				
GROA/KC/CXCL1	F (1, 44) = 2.468	P=0.1233	F (1, 44) = 12.88	*** P=0.0008	F (1, 44) = 0.1483	P=0.7021	0.5038	** 0.0028	0.5336	0.8757				
*IP10/CXCL10	F (1, 44) = 0.04237	P=0.8379	F (1, 44) = 52.53	*** P<0.0001	F (1, 44) = 1.361	P=0.2497	*** 0.0001	*** 0.0001	0.9377	0.8069				
MCP1/CCL2	F (1, 41) = 1.723	P=0.1966	F (1, 41) = 25.12	*** P<0.0001	F (1, 41) = 0.1726	P=0.6800	* 0.0448	*** 0.0003	0.9446	0.673				
*MCP3/CCL7	F (1, 42) = 1.045	P=0.3125	F (1, 42) = 18.58	*** P<0.0001	F (1, 42) = 0.6411	P=0.4278	(trend) 0.0962	** 0.002	0.9997	0.6182				
*MIP1A/CCL3	F (1, 44) = 0.6427	P=0.4270	F (1, 44) = 68.14	*** P<0.0001	F (1, 44) = 0.5072	P=0.4801	*** 0.0001	*** 0.0001	0.9999	0.7462				
*MIP1B/CCL4	F (1, 44) = 0.1638	P=0.6876	F (1, 44) = 50.95	*** P<0.0001	F (1, 44) = 0.2056	P=0.6525	*** 0.0001	*** 0.0001	0.9999	0.9579				
MIP2	F (1, 44) = 1.295	P=0.2613	F (1, 44) = 2.633	P=0.1118	F (1, 44) = 0.03669	P=0.8490	0.995	0.2103	0.9408	0.824				
*RANTES/CCL5	F (1, 44) = 2.501	P=0.1209	F (1, 44) = 26.28	*** P<0.0001	F (1, 44) = 0.8082	P=0.3736	(trend) 0.0624	*** 0.0001	0.9816	0.3033				
BTC	F (1, 44) = 0.006773	P=0.9348	F (1, 44) = 0.6242	P=0.4337	F (1, 44) = 0.1475	P=0.7028	0.979	0.9554	0.9992	0.9956				
LEPTIN	F (1, 44) = 1.598	P=0.2128	F (1, 44) = 23.00	*** P<0.0001	F (1, 44) = 0.9682	P=0.3305	0.0637	*** 0.0004	0.9994	0.3978				
VEGF	F (1, 43) = 0.3698	P=0.5463	F (1, 43) = 1.012	P=0.3202	F (1, 43) = 0.002630	P=0.9593	0.7086	0.9976	0.9831	0.9918				
IL2RA	F (1, 43) = 1.145	P=0.2905	F (1, 43) = 1.739	P=0.1943	F (1, 43) = 1.483	P=0.2299	0.3286	0.9996	0.3917	0.9999				
IL7RA	F (1, 44) = 0.1555	P=0.6952	F (1, 44) = 0.5692	P=0.4546	F (1, 44) = 0.04968	P=0.8246	0.9984	0.8876	0.9999	0.9874				
ST2/IL33R	F (1, 43) = 0.8580	P=0.3595	F (1, 43) = 6.832	* P=0.0123	F (1, 43) = 3.951	P=0.0532	(trend) 0.059	0.6741	0.1777	0.9098				

Supplementary Table S8. Luminex Cytokine Data - ANOVA Table for Sex effects in 5XFAD mice (*from ADRB2 cKO study*).

Supplemental Table S8 - Luminex Data ANOVA Table for ADRB2 conditional KO - sex comparison							
ADRB2 cKO (two-way ANOVA effects of SEX x TREATMENT)							
	INTERACTION		SEX		TREATMENT		Sidak's
							sex effect in 5XFAD-veh
							sex effect in 5XFAD-cKO
BAFF	F (3, 64) = 11.01	***P<0.0001	F (1, 64) = 10.72	**P=0.0017	F (3, 64) = 54.55	***P<0.0001	***
GCSF	F (3, 62) = 0.9999	P=0.3990	F (1, 62) = 1.591	P=0.2119	F (3, 62) = 4.415	P=0.0070	ns
GMCSF	F (3, 64) = 3.562	P=0.0189	F (1, 64) = 2.624	P=0.1102	F (3, 64) = 13.12	P<0.0001	**
IFNA	F (3, 63) = 1.264	P=0.2944	F (1, 63) = 0.0009	P=0.9763	F (3, 63) = 0.5366	P=0.6589	
IFNG	F (3, 63) = 0.9085	P=0.4421	F (1, 63) = 0.1293	P=0.7204	F (3, 63) = 1.170	P=0.3284	
IL1A	F (3, 63) = 1.160	P=0.3323	F (1, 63) = 0.1297	P=0.7199	F (3, 63) = 0.7548	P=0.5237	
IL1B	F (3, 64) = 2.131	P=0.1050	F (1, 64) = 6.152	*P=0.0158	F (3, 64) = 10.37	***P<0.0001	*
IL2	F (3, 63) = 1.051	P=0.3761	F (1, 63) = 0.2635	P=0.6095	F (3, 63) = 1.104	P=0.3541	
IL3	F (3, 65) = 0.7155	P=0.5463	F (1, 65) = 0.03758	P=0.8469	F (3, 65) = 3.923	P=0.0123	ns
IL4	F (3, 63) = 0.1935	P=0.9005	F (1, 63) = 0.01852	P=0.8922	F (3, 63) = 2.827	P=0.0456	ns
IL5	F (3, 63) = 1.156	P=0.3337	F (1, 63) = 0.3731	P=0.5435	F (3, 63) = 3.465	P=0.0213	ns
IL6	F (3, 62) = 1.152	P=0.3353	F (1, 62) = 1.359	P=0.2482	F (3, 62) = 0.7532	P=0.5247	
IL7	F (3, 64) = 1.427	P=0.2430	F (1, 64) = 0.8291	P=0.3659	F (3, 64) = 0.8820	P=0.4552	
IL9	F (3, 63) = 0.5862	P=0.6263	F (1, 63) = 0.9666	P=0.3293	F (3, 63) = 0.9330	P=0.4301	
IL10	F (3, 60) = 3.257	P=0.0277	F (1, 60) = 1.282	P=0.2621	F (3, 60) = 0.9035	P=0.4448	**
IL12P70	F (3, 64) = 1.457	P=0.2347	F (1, 64) = 0.2119	P=0.6469	F (3, 64) = 0.3968	P=0.7557	
IL13	F (3, 64) = 2.182	P=0.0987	F (1, 64) = 0.2353	P=0.6292	F (3, 64) = 1.134	P=0.3422	
IL15/IL15R	F (3, 64) = 2.587	P=0.0607	F (1, 64) = 1.859	P=0.1775	F (3, 64) = 3.655	P=0.0170	*
IL17A/CTLA8	F (3, 63) = 0.7595	P=0.5210	F (1, 63) = 0.05389	P=0.8172	F (3, 63) = 3.096	P=0.0331	ns
IL18	F (3, 64) = 2.366	P=0.0792	F (1, 64) = 0.5645	P=0.4552	F (3, 64) = 4.468	P=0.0065	ns
IL19	F (3, 64) = 4.247	P=0.0085	F (1, 64) = 1.310	P=0.2567	F (3, 64) = 0.8350	P=0.4796	*
IL22	F (3, 63) = 1.412	P=0.2477	F (1, 63) = 2.520	P=0.1174	F (3, 63) = 4.558	P=0.0059	ns
IL23	F (3, 61) = 2.327	P=0.0834	F (1, 61) = 0.0060	P=0.9384	F (3, 61) = 0.2044	P=0.8929	
IL25/IL17	F (3, 64) = 1.046	P=0.3785	F (1, 64) = 0.3751	P=0.5424	F (3, 64) = 0.07090	P=0.9753	
IL27	F (3, 63) = 1.357	P=0.2641	F (1, 63) = 4.060	P=0.0482	F (3, 63) = 1.774	P=0.1612	ns
IL28	F (3, 64) = 1.335	P=0.2708	F (1, 64) = 0.8418	P=0.3623	F (3, 64) = 1.410	P=0.2481	
IL31	F (3, 63) = 0.8091	P=0.4935	F (1, 63) = 0.7806	P=0.3803	F (3, 63) = 3.517	P=0.0201	ns
IL33	F (3, 62) = 1.283	P=0.2881	F (1, 62) = 0.4542	P=0.5028	F (3, 62) = 0.8066	P=0.4950	
*LIF	F (3, 62) = 17.18	P<0.0001	F (1, 62) = 20.02	P<0.0001	F (3, 62) = 33.51	P<0.0001	***
MCSF	F (3, 63) = 2.655	P=0.0561	F (1, 63) = 4.831	P=0.0316	F (3, 63) = 11.46	P<0.0001	0.08
SRANKL	F (3, 61) = 1.372	P=0.2599	F (1, 61) = 1.979	P=0.1646	F (3, 61) = 0.4386	P=0.7262	*
TNFA	F (3, 63) = 0.3495	P=0.7896	F (1, 63) = 1.120e-005	P=0.9973	F (3, 63) = 1.457	P=0.2347	
ENA78/LIX/CXCL5	F (3, 64) = 1.718	P=0.1722	F (1, 64) = 0.5326	P=0.4682	F (3, 64) = 4.033	P=0.0109	ns
EOTAXIN/CCL11	F (3, 64) = 1.604	P=0.1972	F (1, 64) = 1.521	P=0.2220	F (3, 64) = 0.1485	P=0.9303	
GROA/KC/CXCL1	F (3, 64) = 1.002	P=0.3977	F (1, 64) = 1.141	P=0.2895	F (3, 64) = 2.328	P=0.0828	
*IP10/CXCL10	F (3, 66) = 4.609	P=0.0055	F (1, 66) = 20.49	P<0.0001	F (3, 66) = 33.82	P<0.0001	***
MCP1/CCL2	F (3, 64) = 1.913	P=0.1363	F (1, 64) = 0.1709	P=0.6807	F (3, 64) = 3.515	P=0.0200	ns
*MCP3/CCL7	F (3, 62) = 4.727	P=0.0049	F (1, 62) = 9.003	P=0.0039	F (3, 62) = 6.013	P=0.0012	***
*MIP1A/CCL3	F (3, 64) = 10.92	P<0.0001	F (1, 64) = 24.77	P<0.0001	F (3, 64) = 61.54	P<0.0001	***
*MIP1B/CCL4	F (3, 62) = 7.298	P=0.0003	F (1, 62) = 13.94	P=0.0004	F (3, 62) = 54.66	P<0.0001	***
MIP2	F (3, 63) = 0.5462	P=0.6525	F (1, 63) = 1.311	P=0.2566	F (3, 63) = 5.062	P=0.0033	ns
*RANTES/CCL5	F (3, 64) = 3.102	P=0.0327	F (1, 64) = 2.161	P=0.1464	F (3, 64) = 5.358	P=0.0024	0.09
BTC	F (3, 64) = 0.6711	P=0.5729	F (1, 64) = 0.2376	P=0.6276	F (3, 64) = 1.294	P=0.2842	
LEPTIN	F (3, 64) = 1.958	P=0.1292	F (1, 64) = 0.6033	P=0.4402	F (3, 64) = 5.735	P=0.0015	ns
VEGF	F (3, 64) = 0.9159	P=0.4383	F (1, 64) = 11.03	P=0.0015	F (3, 64) = 1.561	P=0.2076	**
IL2RA	F (3, 63) = 0.3257	P=0.8067	F (1, 63) = 5.922	P=0.0178	F (3, 63) = 0.1580	P=0.9242	ns
IL7RA	F (3, 64) = 1.742	P=0.1673	F (1, 64) = 0.3278	P=0.5690	F (3, 64) = 1.054	P=0.3749	
ST2/IL33R	F (3, 63) = 1.493	P=0.2250	F (1, 63) = 0.05901	P=0.8089	F (3, 63) = 0.05731	P=0.9818	

Supplementary Table S9. Definition of region abbreviations used in describing clusters from brain-wide analyses.

Region	Abbrev.	Subregion
Cortical subplate	EP	Endopiriform nucleus
	CLA	Clastrum
	CTXsp	Cortical subplate
Olfactory	PIR	Piriform area
	PAA	Piriform-amygdalar area
	TT	Taenia tecta
	TR	Postpiriform transition area
	AON	Anterior olfactory nucleus
	OLF	Olfactory
Isocortex	PL	Prelimbic
	AI	Agranular insula
	ORB	Orbital
	MO	Motor
	SS	Somatosensory
	ACA	Anterior cingulate
	RSP	Retrosplenial
	GU	Gustatory
Retrohippocampal	ENT	Entorhinal
Cortical plate	CTXpl	Cortical plate
Striatum	CP	Caudoputamen
	LSX	Lateral septal complex
	STR	Striatum
Cerebellum	UVU	Uvula (IX)
	PYR	Pyramus (VIII)
	FL	Flocculus
	PFL	Paraflocculus
	COPY	Copula pyramidis
	PRM	Paramedian lobule
	AN	Ansiform lobule
Midbrain	IC	Inferior colliculus
	SC	Superior colliculus
	PAG	Periaqueductal gray
	MB	Midbrain
Thalamus	TH	Thalamus
Hypothalamus	PM	Premammillary nucleus
	MM	Medial mammillary nucleus
	LHA	Lateral hypothalamic area
	PVa	Periventricular hypothalamic nucleus, anterior part
	ARH	Arcuate hypothalamic nucleus
	PVi	Periventricular hypothalamic nucleus, intermediate part
	DMH	Dorsomedial nucleus of the hypothalamus
	PV	Periventricular hypothalamic nucleus
	HY	Hypothalamus
Pons	PG	Pontine gray
	V	Motor nucleus of trigeminal
	TRN	Tegmental reticular nucleus
	PRNc	Pontine reticular nucleus, caudal part
	PSV	Principal sensory nucleus of the trigeminal
	RPO	Nucleus raphe pontis
	PRNr	Pontine reticular nucleus
	P	Pons
Medulla	SPVI	Spinal nucleus of the trigeminal, interpolar part
	SPVC	Spinal nucleus of the trigeminal, caudal part
	PARN	Parvicellular reticular nucleus
	MDRN	Medullary reticular nucleus
	IRN	Intermediate reticular nucleus
	GRN	Gigantocellular reticular nucleus
	MY	Medulla
fiber tracts	fx	columns of the fornix
	cst	corticospinal tract
	sptV	spinal tract of the trigeminal nerve
	och	optic chiasm
	mlf	medial longitudinal fascicle
	mcp	middle cerebellar peduncle
	icp	inferior cerebellar peduncle
	arb	arbor vitae

Supplementary Table S10. Information on valid clusters includes the contrast, effect direction, label, FDR q value, and adjusted p-value threshold as well as the cluster ID, volume (in mm³), general region, and top 4 regions (with the percentage of total cluster volume indicated).

5XFAD > NC (A β aggregates; q < 0.2; p < 0.025; label density)							
Cluster	Volume	CoG	~Region	Top Region 1	Top Region 2	Top Region 3	Top Region 4
15**	0.0077	275,161,81.8	Olfactory	PIR (71%)	Alv2/3 (29%)		
8*	0.0281	296,247,27.7		PIR (96%)	PAA (4%)		
5**	0.0531	228,130,68.9		AON (96%)	TTv (3%)	PIR (1%)	
2****	6.9842	239,208,174	Isocortex	Isocortex (88%)	LSX (5%)	OLF (3%)	STR (1%)
1****	11.6101	273,318,114	Cortical plate	CTXpl (49%)	TH (17%)	CTXsp (11%)	MBmot (8%)
6*	0.0386	196,314,59.7	Hypothalamus	Mmme (88%)	PMd (6%)	LHA (2%)	fx (1%)
9*	0.0159	254,377,88.1	Pons, sensory related	PSV (68%)	P (24%)	mcp (7%)	
4****	0.1003	228,385,86.5	Pons	P (51%)	V (24%)	PRNr (12%)	PRNc (7%)
3***	0.1703	237,451,70.1	Medulla, sensory related	SPVI (37%)	PARN (35%)	SPVC (16%)	MDRNd (11%)
12***	0.0116	232,404,75.6	Medulla, motor related	PARN (100%)			
7****	0.0384	205,457,61.6		IRN (62%)	MDRNV (27%)	GRN (11%)	

5XFAD > NC (Reactive microglia; q < 0.2; p < 0.025; label density)							
Cluster	Volume	CoG	~Region	Top Region 1	Top Region 2	Top Region 3	Top Region 4
4****	0.0174	273,168,80.9	Olfactory	PIR (42%)	EPd (22%)	Alv5 (21%)	OLF (10%)
6***	0.0135	274,169,97.6	Agranular insula	Alv5 (52%)	Alv6a (17%)	CLA (12%)	Ald5 (12%)
5**	0.0159	294,184,101		Ald6a (61%)	Ald5 (28%)	GU5 (4%)	CLA (4%)
1**	23.2712	267,273,147	Cortical plate	CTXpl (75%)	TH (8%)	CTXsp (6%)	MBmot (3%)
3**	0.1545	228,381,183	Midbrain, sensory related	ICc (48%)	ICd (31%)	ICe (14%)	MB (5%)
7*	0.0098	213,349,67.4	Pons, motor related	TRN (60%)	PG (39%)	cst (1%)	
2**	1.6336	222,422,71.3	Medulla, motor related	MY-mot (55%)	MY-sen (12%)	PRNr (11%)	P-mot (8%)

5XFAD < NC (TH fibers; q < 0.4; p < 0.011; label density)							
Cluster	Volume	CoG	~Region	Top Region 1	Top Region 2	Top Region 3	Top Region 4
8*	0.0719	72,289,203	Somatosensory	SSp-bfd5 (34%)	SSp-bfd4 (26%)	SSp-bfd2/3 (12%)	SSs5 (9%)
2**	0.9355	166,186,189	Anterior cingulate	ACA (39%)	MO (22%)	PL (15%)	ORB (11%)
35*	0.0082	152,248,240	Retrosplenial	RSPagl1 (60%)	MOp1 (24%)	SSp-tr1 (11%)	RSPagl2/3 (4%)
1*	1.8833	60.3,235,114	Isocortex	Isocortex (68%)	EP (8%)	CP (5%)	CLA (4%)
34**	0.0086	46.8,343,75.6	Hippocampal	ENT13 (48%)	ENT15 (48%)	TR (4%)	
17*	0.0304	182,481,126	Cerebellar cortex	UVU (96%)	arb (3%)		
68*	0.002	150,487,160		PYR (75%)	COPY (25%)		
37*	0.0078	181,476,160		PYR (76%)	arb (24%)		
36*	0.0081	93.3,398,99.1		FL (85%)	PFL (15%)		
39**	0.0071	82.1,387,105		FL (89%)	PFL (11%)		
21***	0.0219	80.3,471,118		PRM (100%)			
63**	0.0024	91.5,431,207		ANcr1 (100%)			
6*	0.0748	174,330,204	Midbrain, sensory related	SCsg (52%)	SCzo (21%)	RSPv1 (19%)	RSPv2/3 (5%)
5**	0.1199	176,246,30.7	Hypothalamus	HY (64%)	och (20%)	fiber tracts (16%)	
52*	0.0041	181,398,85.7	Pons	P (35%)	RPO (29%)	mlf (16%)	PRNc (16%)
47*	0.0051	106,428,50.8	fiber tracts	icp (71%)	sptV (25%)	MY (4%)	

5XFAD < NC (TH+ DA cells; q < 0.4; p < 0.011; cell density)							
Cluster	Volume	CoG	~Region	Top Region 1	Top Region 2	Top Region 3	Top Region 4
22*	0.0034	168,323,147	Midbrain, motor related	PAG (100%)			
5***	0.0101	176,246,30.7	Hypothalamus	ARH (48%)	PVpo (29%)	PVa (11%)	PVi (8%)
62*	0.0018	181,267,60.5		PVi (95%)	DMH (5%)		
46*	0.0051	181,280,59.3		PVi (68%)	DMH (32%)		