SUPPLEMENTAL INFORMATION

Decrease in Somatostatin-Positive Cell Density in the Amygdala of Females with Major Depression

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Supplementary Table 1. Statistical p-values associated with the effect of potential cofactors on cluster density[1].

	All								Small Clusters								Large Clusters							
	Age	PMI	pH	RNA ratio	RIN	S	AD	Alc	Age	PMI	pH	RNA ratio	RIN	S	AD	Alc	Age	PMI	pH	RNA ratio	RIN	S	AD	Alc
Lateral nucleus																								
Lateral traverse	0.89	0.84	0.03	0.97	0.81	0.74	0.97	0.16	0.98	0.40	0.02	0.72	0.79	0.29	0.08	0.16	0.57	0.84	0.06	0.38	0.99	0.93	0.99	0.01
Medial traverse	0.90	0.60	0.55	0.70	0.44	0.32	0.48	0.72	0.83	0.40	0.16	0.36	0.42	0.10	0.95	0.82	0.96	0.29	0.74	0.71	0.75	0.41	0.71	0.26
Central traverse	0.37	0.35	0.06	0.80	0.46	0.69	0.61	0.80	0.67	0.15	0.09	0.30	0.51	0.82	0.41	0.63	0.99	0.08	0.01	0.51	0.60	0.58	0.83	0.58
Mean	0.22	0.31	0.04	0.84	0.33	0.58	0.48	0.97	0.86	0.16	0.07	0.36	0.54	0.35	0.38	0.75	0.49	0.10	0.02	0.76	0.80	0.30	0.73	0.05
Basolateral nucleus																								
Lateral traverse	0.58	0.95	<.01	0.24	0.26	0.16	0.57	0.66	0.60	0.60	0.01	0.66	0.51	0.46	0.31	0.63	0.29	0.26	0.07	0.11	0.46	0.40	0.96	0.97
Medial traverse	0.61	0.55	<.01	0.33	0.67	0.49	0.63	0.85	0.91	0.83	<.01	0.77	0.68	0.89	0.86	0.74	0.68	0.75	<.01	0.26	0.45	0.83	0.59	0.52
Central traverse	0.12	0.90	<.01	0.80	0.60	0.17	0.64	0.67	0.85	0.67	<.01	0.90	0.98	0.32	0.08	0.44	0.23	0.54	0.05	0.52	0.75	0.91	0.23	0.95
Mean	0.55	0.97	<.01	0.45	0.66	0.22	0.43	0.61	0.87	0.86	<.01	0.90	0.86	0.56	0.39	0.70	0.26	0.49	<.01	0.14	0.35	0.46	0.47	0.60
Basolateral nucleus																								
Mean	0.54	0.81	<.01	0.18	<.01	0.87	0.13	0.30	0.67	0.80	0.03	0.31	0.35	0.31	0.89	0.94	0.89	0.99	0.05	0.02	0.37	0.46	0.77	0.68

[1]Cluster density per mm^2. Light grey shades indicate significant effects (p < 0.05); dark grey shades indicates significant effects that survived correction for multiple testing. AD, antidepressants at time of death; Alc, alcohol dependence at time of death PMI, postmortem interval; RIN, RNA integrity number; S, death by suicide.

Supplementary Table 2. Statistical p-values associated with the effect of potential cofactors on grain counts[1].

	All								Small Clusters								Large Clusters							
	Age	PMI	pH	RNA ratio	RIN	S	AD	Alc	Age	PMI	pH	RNA ratio	RIN	S	AD	Alc	Age	PMI	pH	RNA ratio	RIN	S	AD	Alc
Lateral nucleus																								
Lateral traverse	0.64	0.67	0.53	0.84	0.69	0.15	0.84	0.57	0.70	0.58	0.64	0.79	0.87	0.03	0.89	0.90	0.05	0.09	0.48	0.82	0.56	0.25	0.03	0.94
Medial traverse	0.45	0.99	0.67	0.68	0.41	0.12	0.99	0.75	0.33	0.68	0.51	0.35	0.96	0.01	0.95	0.71	0.31	0.69	0.70	0.57	0.24	0.43	0.98	0.58
Central traverse	0.42	0.63	0.14	0.56	0.95	0.36	0.49	0.22	0.92	0.96	0.49	0.31	0.51	0.10	0.42	0.58	0.26	0.46	0.35	0.36	0.79	0.08	0.59	0.22
Mean	0.66	0.21	0.03	0.85	0.75	0.26	0.52	0.78	0.61	0.38	0.09	0.56	0.53	<.01	0.46	0.95	0.53	0.25	0.05	0.81	0.55	0.50	0.25	0.42
Basolateral nucleus																								
Lateral traverse	0.57	0.59	0.88	0.99	0.73	0.85	0.70	0.29	0.41	0.74	0.37	0.85	0.74	0.61	0.76	0.85	0.58	0.72	0.07	0.51	0.76	0.42	0.96	0.58
Medial traverse	0.71	0.26	0.08	0.06	0.61	0.37	0.91	0.57	0.52	0.86	0.82	0.06	0.98	0.80	0.65	0.41	0.14	0.26	0.11	0.33	0.67	0.51	0.50	0.80
Central traverse	0.72	0.05	0.41	0.84	0.75	0.76	0.21	0.01	0.67	0.79	0.70	0.56	0.36	0.80	0.99	0.01	0.38	0.83	0.99	0.14	0.94	0.81	0.97	0.67
Mean	0.89	0.63	0.33	0.53	0.83	0.44	0.66	0.82	0.70	0.77	0.91	0.41	0.66	0.77	0.98	0.08	0.89	0.49	0.09	0.29	0.87	0.45	0.50	0.58
Basolateral nucleus																								
Mean	0.20	0.04	0.11	.14	<.01	0.62	0.15	0.36	0.85	0.02	0.09	0.40	<.01	0.47	0.24	0.30	0.64	0.28	0.10	0.04	<.01	0.94	0.71	0.44

[1]Ratio of area covered by silver grains for SST-positive cells. Light grey shades indicate significant effects (p < 0.05); dark grey shades indicates significant effects that survived correction for multiple testing. AD, antidepressants at time of death; Alc, alcohol dependence at time of death PMI, postmortem interval; RIN, RNA integrity number; S, death by suicide.

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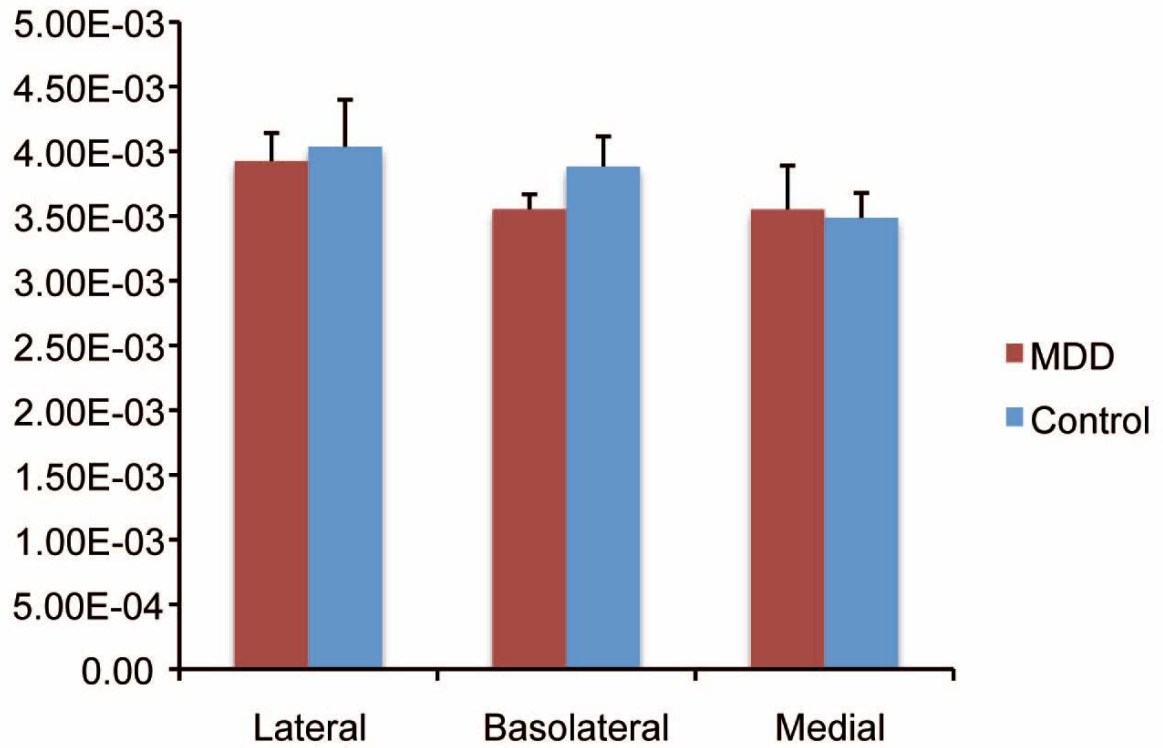
Supplementary Figure 1. There were no differences in the density of cresyl violet stained cells in the lateral, basolateral, or basomedial amygdala between controls and MDD subjects. Data are expressed as the number of cells per mm^2. Error bars represent standard error of the mean.