TABLE S1 Intrinsic Functional Connectivity (iFC) Secondary Analysis Group Comparisons (Major Depressive Disorder [MDD] vs. Controls) and Correlations With MDD and Anhedonia Severity (MDD Only)

Region	Side	Connectivity Peak	Cluster Size	Peak (MNI)			Peak Z	*p*
				X	Y	Z		
MDD > Controls								
Caudate	Left	dmPFC	2,224	10	40	44	4.50	2.03×10^{-6}
	Right	dmPFC and ACC	6,273	−16	42	30	4.99	8.64×10^{-12}
Putamen	Left	dmPFC	654	6	26	48	3.92	4.77×10^{-3}
	Right	dmPFC	1,419	4	38	46	4.41	1.39×10^{-4}
Nucleus accumbens	Right	dmPFC and ACC	2,594	−22	46	26	4.59	1.79×10^{-7}
Controls > MDD								
Caudate	Left	Superior temporal lobe	1,530	−64	−24	14	4.54	8.82×10^{-5}
	Right	Occipital fusiform cortex	1,444	−30	−78	−16	4.36	7.12×10^{-4}
	Right	Temporal/occipital fusiform cortex	1,209	42	−62	−22	3.92	2.42×10^{-3}
	Right	Cuneal cortex	1,620	28	−82	30	4.67	2.97×10^{-4}
Putamen	Left	Lateral occipital cortex	1,261	60	−62	16	4.70	2.37×10^{-5}
	Right	Lateral occipital cortex	2,879	46	−84	−4	4.13	5.76×10^{-8}
MDD: Negative CDRS-R Correlations								
Caudate	Left	Precuneus	994	−4	−62	64	4.49	1.08×10^{-3}
	Right	Precuneus	550	−6	−64	58	3.48	9.47×10^{-3}
MDD: Positive Anhedonia Correlations								
Caudate	Left	Middle occipital gyrus	563	−38	−70	6	3.49	< 0.001
	Right	Supplementary motor area	559	−10	−24	62	3.65	0.001
Putamen	Right	Perigenual ACC	618	−10	16	26	4.08	0.002

Note: ACC = anterior cingulate cortex; CDRS-R = Children's Depression Rating Scale—Revised; dmPFC = dorsomedial prefrontal cortex; MNI = Montreal Neurological Institute; PCC = posterior cingulate cortex.

TABLE S2 Intrinsic Functional Connectivity (iFC) Without Global Signal Regression Group Comparisons (Major Depressive Disorder [MDD] vs. Controls) and Correlations With MDD and Anhedonia Severity (MDD Only)

Region	Seed	Connectivity Peak	Cluster Size	Peak (MNI)			Peak Z	*p*
				X	Y	Z		
MDD > Controls								
Caudate	Left VC	dmPFC	535	−12	40	42	4.11	.005
	Right DC	dmPFC	2,430	−12	42	38	4.83	< .001
	Right VC	dmPFC and ACC	5,911	−18	40	36	4.82	.003
Putamen	Left DRP	dmPFC	903	8	26	52	4.10	< .001
	Right DRP	Inferior frontal gyrus	951	−60	28	14	4.06	.003
	Right VRP	dmPFC and paracingulate gyrus	2,618	6	24	48	4.25	.008
Nucleus Accumbens	Left NAc	dmPFC	425	−6	30	56	4.02	.003
	Right NAc	dmPFC	2,945	−22	46	26	4.69	.002
Controls > MDD								
Caudate	Left DC	Occipital cuneal cortex	771	8	−78	30	3.78	.027
	Right DC	Occipital lingual gyrus	877	−26	−60	−2	3.88	.018
	Right DC	Occipital/temporal fusiform cortex	763	42	−62	−22	3.55	.050
	Right VC	Occipital cuneal cortex	2,799	−22	−68	24	4.59	.037
Putamen	Left DRP	Occipital fusiform cortex	867	36	−72	−18	4.45	.006
	Right DRP	Occipital fusiform cortex	1,300	36	−78	−18	4.55	.050
	Right DRP	Lateral occipital cortex	988	−40	−90	2	4.71	.033
	Right VRP	Occipital fusiform cortex	1,172	−24	−74	−10	3.89	.029
Nucleus Accumbens	Right NAc	Middle temporal gyrus	1,277	50	−54	−2	4.14	.022
	Right NAc	Middle occipital gyrus	722	26	−80	14	4.16	.030
	Right NAc	Occipital fusiform gyrus	711	−28	−60	−4	4.51	.050
MDD: Positive CDRS-R Correlations								
Putamen	Right VRP	Precuneus and PCC	889	−2	−56	32	4.19	.086
MDD: Negative CDRS-R Correlations								
Caudate	Left DC	Precuneus and PCC	1,716	6	−66	62	4.29	.007
	Left DC	Middle frontal gyrus	709	28	14	52	4.09	.031
	Right DC	Precuneus and PCC	656	−4	−62	62	4.38	.020
Putamen	Left DRP	dmPFC	449	−32	42	40	4.33	.025
	Left VRP	Lateral occipital cortex	389	10	−66	60	3.52	.076
	Right VRP	dmPFC	462	46	60	−4	4.61	.041
Nucleus accumbens	Right NAc	Precuneus	435	−6	−62	62	3.53	.094
MDD: Positive Anhedonia Correlations								
Caudate	Left DC	Supplementary motor area	2,248	10	2	52	4.18	.057
	Left VC	Supplementary motor area	679	10	2	52	4.14	.090
	Left VC	Precuneus	620	−30	−52	52	3.88	.057
	Right DC	Middle frontal gyrus	600	−18	−16	54	4.92	.047
	Right VC	Supramarginal gyrus	648	−54	−38	42	3.58	.042
MDD: Negative Anhedonia Correlations								
Caudate	Right DC	Precuneus and PCC	1,006	30	−66	52	4.34	.017
Nucleus accumbens	Left NAc	Subgenual ACC and left caudate	939	−8	10	14	4.70	< .001

Note: ACC = anterior cingulate cortex; CDRS-R = Children's Depression Rating Scale–Revised; DC = dorsal caudate; DCP = dorsal caudal putamen; dmPFC = dorsomedial prefrontal cortex; DRP = dorsal rostral putamen; MNI = Montreal Neurological Institute; NAc = nucleus accumbens; PCC = posterior cingulate cortex; VC = ventral caudate; VRP = ventral rostral putamen.

TABLE S3 Intrinsic Functional Connectivity (iFC) Controlled for Mean Framewise Displacement (FD) Group Comparisons (Major Depressive Disorder [MDD] vs. Controls) and Correlations With MDD and Anhedonia Severity (MDD Only)

Region	Seed	Connectivity Peak	Cluster Size	Peak (MNI)			Peak Z	*p*
				X	Y	Z		
MDD > Controls								
Caudate	Right DC	dmPFC	1,899	−12	42	38	4.73	5.48×10^{-6}
	Right VC	dmPFC and ACC	6,117	−18	40	36	4.74	5.88×10^{-12}
Putamen	Left DRP	dmPFC	1,037	8	26	52	3.98	1.87×10^{-4}
	Right DRP	Inferior frontal gyrus	988	−60	28	14	3.95	2.29×10^{-3}
	Right VRP	dmPFC and paracingulate gyrus	2,615	6	24	48	4.08	1.79×10^{-7}
Nucleus Accumbens	Right NAc	dmPFC	3,273	−18	44	26	4.60	1.34×10^{-8}
Controls > MDD								
Caudate	Left DC	Superior temporal gyrus	1,379	−68	−26	12	4.59	5.85×10^{-5}
	Right DC	Occipital pole	1,735	−10	−90	26	4.41	1.41×10^{-5}
	Right DC	Occipital lingual gyrus	928	−26	−60	−2	3.99	2.51×10^{-3}
	Right DC	Occipital/temporal fusiform cortex	824	42	−62	−22	3.56	5.36×10^{-3}
	Right VC	Occipital fusifoorm cortex	4,919	−36	−80	−14	4.65	3.23×10^{-10}
Putamen	Left DRP	Occipital fusiform cortex	855	36	−72	−18	4.31	8.85×10^{-4}
	Right DRP	Occipital fusiform cortex	1,320	36	−78	−18	4.46	2.70×10^{-4}
	Right DRP	Lateral occipital cortex	1,068	34	−80	12	4.51	1.34×10^{-3}
	Right DRP	Lateral occipital cortex	1,013	−40	−90	2	4.64	1.94×10^{-3}
	Right VRP	Lateral occipital cortex	3,609	30	−80	12	4.64	1.77×10^{-9}
	Right VRP	Occipital lingual gyrus	1,275	−22	−54	−8	3.77	3.11×10^{-4}
Nucleus Accumbens	Right NAc	Middle temporal gyrus	1,156	50	−54	−2	4.00	8.41×10^{-4}
	Right NAc	Occipital lingual gyrus	951	−28	−58	−4	4.53	3.23×10^{-3}
MDD: Positive CDRS-R Correlations								
Caudate	Left DC	Superior temporal gyrus	1,008	−42	16	−36	4.03	1.85×10^{-3}
Putamen	Right VRP	Precuneus and PCC	850	−2	−56	32	4.08	4.40×10^{-4}
MDD: Negative CDRS-R Correlations								
Caudate	Left DC	Precuneus and PCC	1,734	6	−66	62	4.14	2.06×10^{-5}
	Right DC	Precuneus and PCC	706	−4	−62	62	4.28	1.64×10^{-3}
	Right DC	dmPFC	595	−28	60	26	4.29	5.29×10^{-3}
	Left VRP	dmPFC	610	2	68	14	4.51	2.85×10^{-3}
Nucleus Accumbens	Right NAc	dmPFC	555	24	12	50	4.22	4.50×10^{-3}
	Right NAc	Precuneus	509	−2	−62	64	3.47	7.85×10^{-3}
MDD: Positive Anhedonia Correlations								
Caudate	Left DC	Precentral gyrus	1,382	−28	−16	66	4.17	1.98×10^{-4}
	Left DC	Precentral gyrus	1,216	20	−18	66	3.78	5.52×10^{-4}
	Right DC	Left posterior insula	1,769	−44	−14	0	4.23	7.81×10^{-6}
	Right DC	Right posterior insula	1,357	50	−6	2	4.18	1.02×10^{-4}
MDD: Negative Anhedonia Correlations								
Caudate	Left DC	PCC	1,179	2	−46	18	3.9	6.98×10^{-4}
	Right DC	Precuneus and PCC	1,250	30	−66	54	4.34	2.07×10^{-4}
Nucleus Accumbens	Left NAc	Subgenual ACC and left caudate	877	−10	10	16	4.81	2.01×10^{-3}

Note: ACC = anterior cingulate cortex; CDRS-R = Children's Depression Rating Scale–Revised; DC = dorsal caudate; DCP = dorsal caudal putamen; dmPFC = dorsomedial prefrontal cortex; DRP = dorsal rostral putamen; MNI = Montreal Neurological Institute; NAc = nucleus accumbens; PCC = posterior cingulate cortex; VC = ventral caudate; VRP = ventral rostral putamen.

REFERENCES

1. Kennedy DN, Lange N, Makris N, Bates J, Meyer J, Caviness VS Jr. Gyri of the human neocortex: an MRI-based analysis of volume and variance. Cereb Cortex. 1998;8:372-384.
2. Makris N, Meyer JW, Bates JF, Yeterian EH, Kennedy DN, Caviness VS. MRI-based topographic parcellation of human cerebral white matter and nuclei II. Rationale and applications with systematics of cerebral connectivity. NeuroImage. 1999;9:18-45.
3. Stark DE, Margulies DS, Shehzad ZE, *et al*. Regional variation in interhemispheric coordination of intrinsic hemodynamic fluctuations. J Neurosci. 2008;28:13754-13764.
4. Kelly C, Biswal BB, Craddock RC, Castellanos FX, Milham MP. Characterizing variation in the functional connectome: promise and pitfalls. Trends Cogn Sci. 2012;16:181-188.
5. Leopold DA, Maier A. Ongoing physiological processes in the cerebral cortex. NeuroImage. 2012;62:2190-2200.
6. Carbonell F, Bellec P, Shmuel A. Global and system-specific resting-state FMRI fluctuations are uncorrelated: principal component analysis reveals anti-correlated networks. Brain Connect. 2011;1:496-510.
7. He H, Liu TT. A geometric view of global signal confounds in resting-state functional MRI. NeuroImage. 2012;59:2339-2348.