Data Supplement for Chin Fatt et al., Effect of Intrinsic Patterns of Functional Brain Connectivity in Moderating Antidepressant Treatment Response in Major Depression. Am J Psychiatry (doi: 10.1176/appi.ajp.2019.18070870).

FIGURE S1. EMBARC CONSORT Flow Diagram. For this analysis patients were included (1) regardless of their $HAMD_{17}$ score, (2) had resting state fMRI data, and (3) had at least one follow up visit.
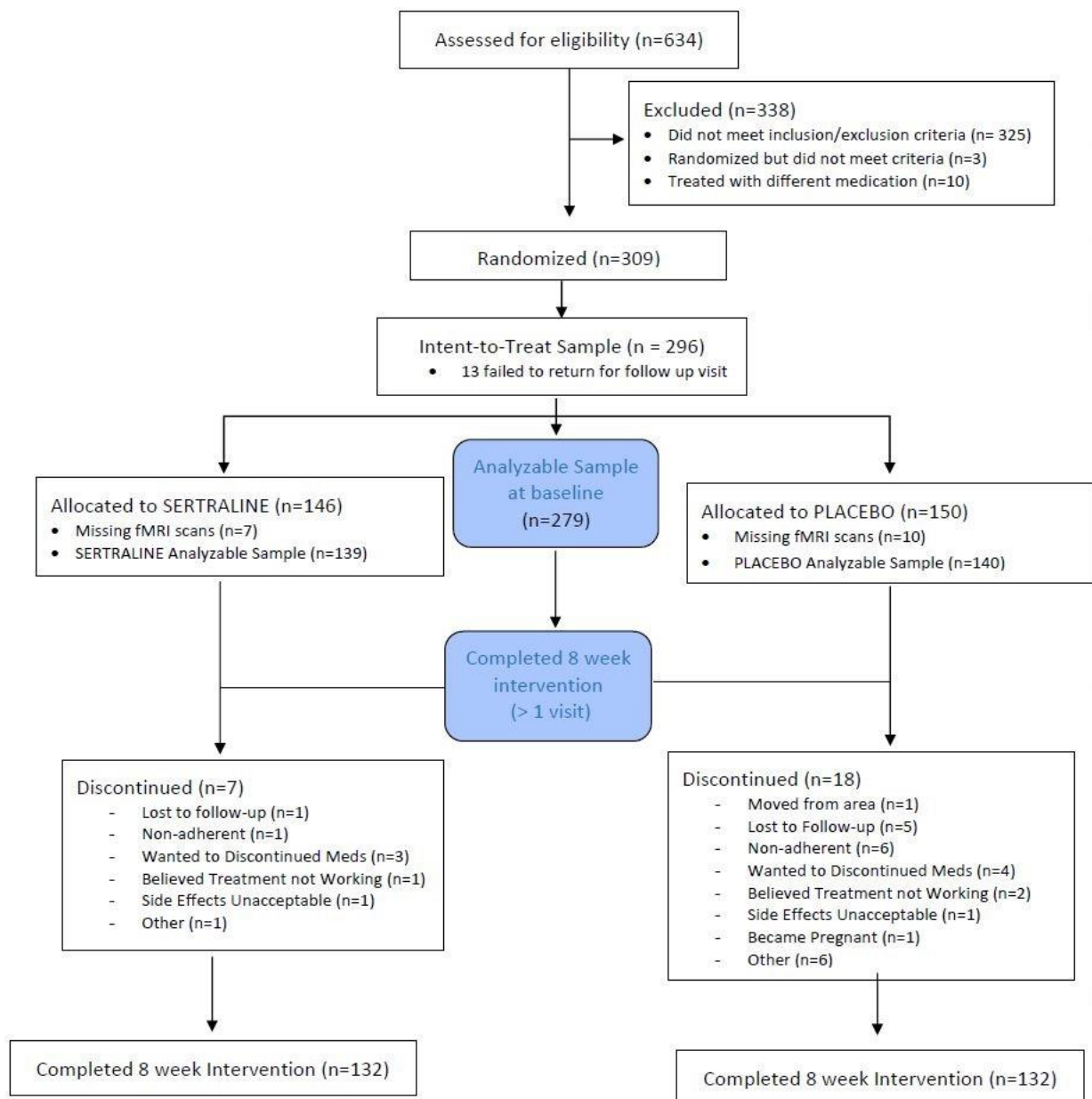
FIGURE S2. Nonspecific predictors. Lines extending from one network to the other represent between-network moderators. Loops extending from a network represents within-network moderators. The thickness of the line is computed based on the number of moderators between the networks of interest relative to the total number of possible moderators (i.e., thicker line implies more connections between the networks, compared to a thinner line).
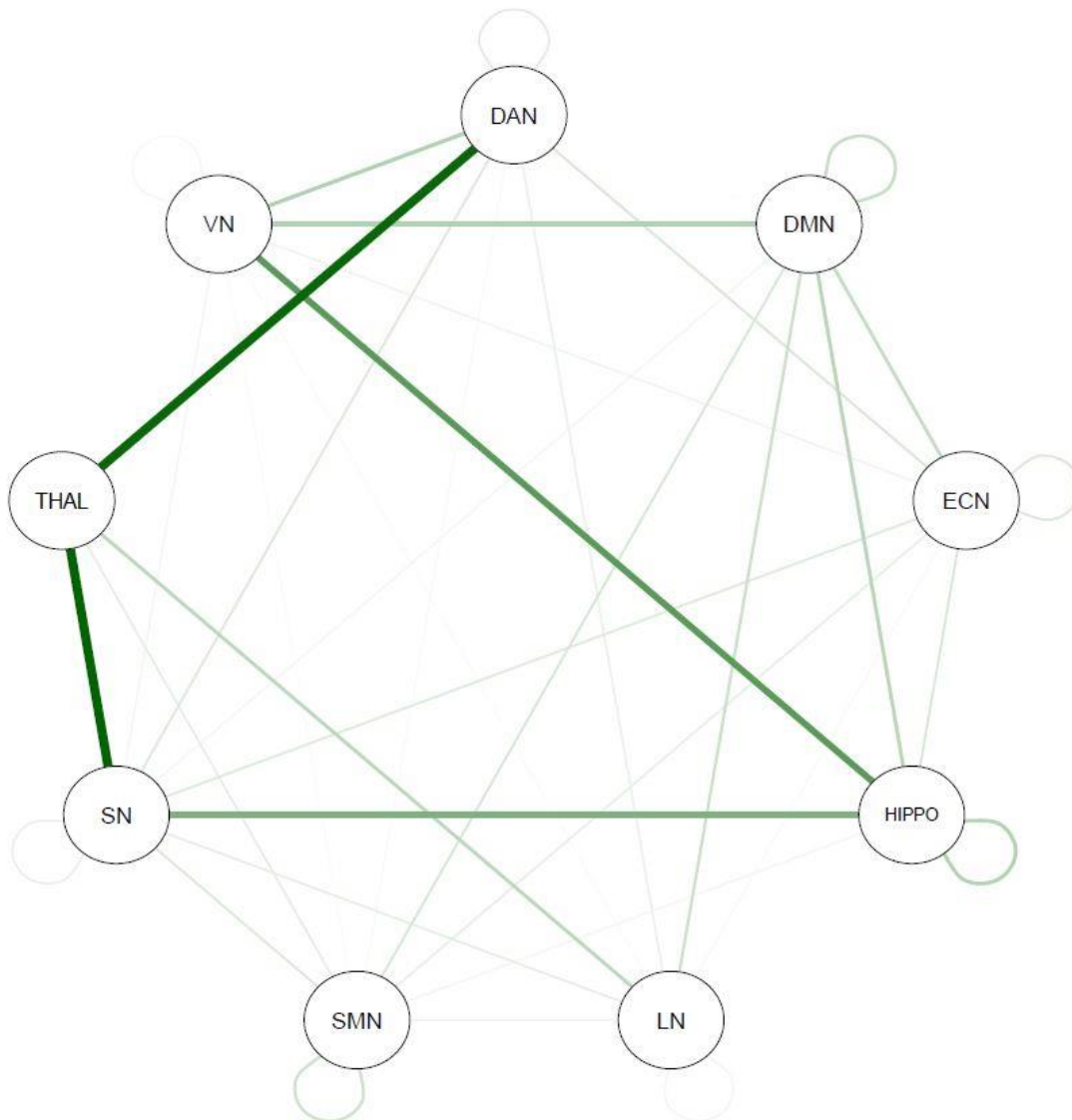
TABLE S1. Structural MRI and resting-state fMRI acquisition scanning parameters

	CU	MGH	TX	UM
Scanner	General Electric 3T	Siemens 3T	Phillips 3T	Phillips 3T
Structural	Series = IR FSPGR TR/TE=6.0ms/2.4ms Flip Angle=9° Thickness=1mm Resolution=1×1mm^2 Duration=5min	Series = MPRAGE TR/TE=2.3s/2.54ms Flip Angle=9° Thickness=1mm Resolution=1×1mm^2 Duration=4.30min	Series = MPRAGE TR/TE=8ms/3.7ms Flip Angle=12° Thickness=1mm Resolution=1×1mm^2 Duration=4.24min	Series = TFE TR/TE=8.1ms/3.7ms Flip Angle=12° Thickness=1mm Resolution=1×1mm^2 Duration=5.29min
rsfMRI	TR/TE=2000/28msec Flip Angle = 90° Res.=3.2x3.2mm^2 Thickness = 3.1mm Matrix = 64×64	TR/TE=2000/28msec Flip Angle = 90° Res.=3.2x3.2mm^2 Thickness = 3.1mm Matrix = 64×64	TR/TE=2000/28msec Flip Angle = 90° Res.=3.2x3.2mm^2 Thickness = 3.1mm Matrix = 64×64	TR/TE=2000/28msec Flip Angle = 90° Res.=3.2x3.2mm^2 Thickness = 3.1mm Matrix = 64×64

TABLE S2. Baseline sociodemographic and clinical variables for sertraline remitters and sertraline non remitters

Categorical variables		Sertraline n	Sertraline %	Remitters n	Remitters %	Non Remitters n	Non Remitters %	χ^2	p value
Gender								0.03	0.86
	Male	41	29.50	14	28.57	27	30.00		
	Female	98	70.50	35	71.43	63	70.00		
Race								1.27	0.53
	White	86	61.87	31	63.26	55	61.11		
	African American	32	23.02	9	18.37	23	25.56		
	Other	21	15.11	9	18.37	12	13.33		
Employment status								6.64	0.04
	Employed	76	54.68	34	69.39	42	46.67		
	Unemployed	58	41.73	14	28.57	44	48.89		
	Unknown	5	3.60	1	2.04	4	4.44		
Site								16.00	<.01
	CU	39	28.06	23	46.94	16	17.78		
	MG	23	16.55	3	6.12	20	22.22		
	TX	48	34.53	13	26.53	35	38.89		
	UM	29	20.86	10	20.41	19	21.11		

Continuous variables	Mean	SD	Mean	SD	Mean	SD	t value	p value
Age	38.00	14.00	38.04	13.76	37.29	13.93	-0.31	0.76
Age of onset	16.15	6.07	15.33	5.74	16.60	6.23	1.21	0.23
Years of education	14.97	2.63	15.05	2.67	14.93	2.62	-0.25	0.80
Number of MDE	9.14	19.22	7.67	14.90	10.00	21.40	0.71	0.48
Duration of current episode	42.14	69.13	27.76	42.09	49.42	79.52	2.09	0.04
HAMD$_{17}$	18.58	4.59	18.10	4.13	18.44	4.83	0.95	0.34

TABLE S3. Baseline sociodemographic and clinical variables for placebo remitters and placebo non remitters

Categorical variables		Placebo n	%	Remitters n	%	Non Remitters n	%	χ^2	p value
Gender								.22	.64
	Male	52	37.14	14	34.15	38	38.38		
	Female	88	62.86	27	65.85	61	61.62		
Race								1.59	.45
	White	98	70.00	28	68.29	70	70.71		
	African American	22	15.71	5	12.20	17	17.17		
	Other	20	14.29	8	19.51	12	12.12		
Employment status								2.17	.34
	Employed	76	54.29	25	60.98	51	51.52		
	Unemployed	59	42.14	14	34.15	45	45.45		
	Unknown	4	3.57	2	4.88	2	2.02		
Site								11.63	.01
	CU	40	28.57	19	46.34	21	21.21		
	MG	23	16.43	4	9.76	19	19.19		
	TX	47	33.57	8	19.51	39	39.39		
	UM	30	21.43	10	24.39	20	20.20		

Continuous variables	Mean	SD	Mean	SD	Mean	SD	t value	p value
Age	37.00	13.00	32.95	11.79	38.40	12.87	2.42	0.02
Age of onset	16.16	5.67	16.27	5.83	16.12	5.64	-0.14	0.89
Years of education	15.18	2.68	15.15	2.28	15.19	2.83	0.10	0.92
Number of MDE	8.71	14.20	4.95	4.63	10.31	16.47	2.83	0.01
Duration of current episode	41.33	76.79	32.56	62.5	44.87	81.96	0.96	0.34
HAMD$_{17}$	18.74	4.13	17.12	4.14	19.40	3.96	3.01	<.01

TABLE S4. Terms in Linear Mixed Model

Type of Variable	Name of Variable
Dependent Variable	HAMD-17
Independent Variables	fcMRI
	Time – Time 0, Time 1, Time 2, Time 3, Time 4, Time 6, Time 8
	* Site 1 – CU
	* Site 2 – MG
	* Site 3 – UM
	Treatment × Time
	fcMRI × Time
	Site 1 × Time
	Site 2 × Time
	Site 3 × Time
	Site 1 × fcMRI
	Site 2 × fcMRI
	Site 3 × fcMRI
	** Treatment × Time × fcMRI
	Treatment × Site 1 × Time
	Treatment × Site 2 × Time
	Treatment × Site 3 × Time
	Site 1 × Time × fcMRI
	Site 2 × Time × fcMRI
	Site 3 × Time × fcMRI
	Treatment × Site 1 × Time × fcMRI
	Treatment × Site 2 × Time × fcMRI
	Treatment × Site 3 × Time × fcMRI

Note: * TX used as reference site ** interaction of interest.

TABLE S5. Moderator effect driven by predictions only in the sertraline arm

Seed	Target	Sertraline Arm		Placebo Arm		moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
DAN_Precuneus(L)	DMN_InferiorTemporal(L)	-7.70	<0.01	1.35	0.46	0.04	0.29	-0.10
DAN_Precuneus(L)	ECN_Striatum(L)	-6.40	<0.01	2.95	0.27	0.02	0.29	-0.19
DMN_InferiorTemporal(R)	DMN_MiddleFrontal(L)	-11.42	<0.01	-2.26	0.28	0.04	0.30	-0.10
DMN_InferiorFrontal(R)	DMN_SuperiorMedialFrontal(L)	-8.59	<0.01	-0.12	0.94	0.04	0.32	-0.12
DMN_Angularl(L)	DMN_InferiorFrontal(L)	-7.30	<0.01	1.54	0.42	0.02	0.31	-0.11
DMN_MiddleFrontal(L)	DMN_OrbitalInferiorFrontal(R)	-6.62	<0.01	3.10	0.14	<0.01	0.27	-0.13
DMN_Angularl(L)	DMN_OrbitalInferiorFrontal(R)	-6.06	<0.01	3.34	0.11	0.04	0.25	-0.10
DMN_MedialOrbitofrontal(L)	DMN_MiddleFrontal(R)	-5.99	0.01	0.29	0.86	0.05	0.32	-0.12
DMN_Angular(R)	DMN_Angularl(L)	-5.75	0.01	0.96	0.52	0.03	0.30	-0.13
DMN_InferiorOrbitofrontal(L)	DMN_Precuenus(R)	-5.19	0.02	1.83	0.34	0.03	0.25	-0.14
DMN_MiddleTemporal(R)	DMN_Precuneus(L)	-5.01	0.03	2.10	0.31	0.04	0.26	-0.12
DMN_InferiorFrontal(R)	DMN_PosteriorCingulate(L)	-4.71	0.02	1.54	0.36	0.04	0.25	-0.15
DMN_MiddleFrontal(R)	DMN_PosteriorCingulate(L)	-4.51	0.03	1.07	0.53	0.04	0.31	-0.13
DMN_InferiorOrbitofrontal(L)	DMN_Precuneus(L)	-4.45	0.04	3.36	0.11	0.01	0.30	-0.22
DMN_MiddleFrontal(L)	DMN_SuperiorTemporal(R)	-4.27	0.05	3.16	0.14	0.01	0.31	-0.19
DMN_MiddleFrontal(L)	DMN_PosteriorCingulate(L)	-4.22	0.05	1.82	0.33	0.05	0.29	-0.15
DMN_MiddleFrontal(L)	ECN_Striatum(L)	-7.13	0.01	2.85	0.31	0.04	0.29	-0.17
DMN_PosteriorCingulate(L)	LN_TemporalPole(R)	-7.22	<0.01	3.05	0.13	0.03	0.28	-0.11
DMN_MiddleFrontal(R)	Amygdala(R)	-4.71	0.08	4.83	0.13	0.03	0.28	-0.13
DMN_Precuneus(L)	SN_Striatum(L)	-7.09	0.01	2.57	0.37	0.05	0.28	-0.13
ECN_InferiorParietal(L)	ECN_OrbitalMiddleFrontal(R)	-7.86	<0.01	1.66	0.37	0.02	0.30	-0.05
ECN_Precuneus(R)	VN_Calcarine(L)	-4.87	0.02	2.85	0.21	0.05	0.25	-0.11
Hippocampus_LC(L)	Amygdala(L)	-9.85	<0.01	1.83	0.58	0.02	0.30	-0.06
Hippocampus_RA(R)	SMN_Paracentral(L)	-9.07	<0.01	2.05	0.41	0.04	0.33	-0.08

Seed	Target	Sertraline Arm		Placebo Arm		moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
LN_InferiorTemporal(L)	DAN_SuperiorParietal(R)	-9.92	<0.01	3.89	0.08	<0.01	0.31	-0.14
LN_Striatum(R)	VN_MiddleOccipital(R)	-11.05	<0.01	0.98	0.69	0.04	0.27	-0.03
SMN_Paracentral(L)	SN_SuperiorTemporal(R)	-6.23	<0.01	2.89	0.15	0.01	0.28	-0.11
SMN_SuperiorTemporal(L)	SN_AnteriorInsula (L)	-3.79	0.04	3.69	0.05	0.04	0.27	-0.13
VN_Fusiform(R)	VN_Fusiform(R)	-4.91	0.03	2.53	0.28	0.03	0.30	-0.10
DMN_InferiorFrontal(L)	SMN_Striatum(R)	6.62	0.03	-3.63	0.14	0.04	0.27	0.07
Hippocampus_RA(R)	VN_SuperiorOccipital(L)	7.35	0.01	-4.33	0.10	0.03	0.26	0.04
DMN_Striatum(L)	LN_TemporalPole(R)	7.51	0.01	-2.92	0.19	0.02	0.28	0.11
LN_TemporalPole(R)	Thalamus(R)	7.52	<0.01	-3.01	0.28	0.04	0.25	0.10
SMN_Postcentral(R)	SN_Striatum(L)	8.89	<0.01	-6.21	0.06	<0.01	0.27	0.13
ECN_OrbitalMiddleFrontal(R)	SN_Striatum(R)	8.98	<0.01	-2.98	0.25	0.04	0.28	-0.04
DMN_InferiorFrontal(L)	SN_Striatum(L)	10.65	<0.01	-4.96	0.07	0.01	0.22	0.09

* Sign of effect size indicates whether the outcome is favored by high connectivity or low connectivity. Positive effect size indicates that higher connectivity is associated with better outcome with placebo.

TABLE S6. Moderator effect driven by predictions only in the placebo arm

Seed	Target	Sertraline Arm		Placebo Arm		moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
DAN_Striatum(R)	ECN_Striatum(R)	-0.69	0.80	-11.84	<0.01	0.04	0.29	0.14
DAN_SuperiorParietal(L)	Hippocampus_LA(L)	5.55	0.05	-6.16	0.02	0.05	0.25	0.07
DAN_Striatum(R)	LN_Amygdala(R)	5.02	0.07	-10.05	<0.01	0.01	0.29	0.13
DAN_Striatum(R)	SN_Striatum(L)	2.19	0.43	-12.60	<0.01	0.01	0.29	0.14
DMN_Precuneus(L)	DAN_Precuneus(R)	3.13	0.14	-4.25	0.02	0.04	0.33	0.07
DMN_InferiorOrbitofrontal(L)	ECN_OrbitalMiddleFrontal(R)	2.68	0.24	-9.72	<0.01	0.01	0.29	0.11
DMN_MiddleFrontal(L)	LN_Striatum(R)	1.59	0.56	-13.01	<0.01	0.02	0.30	0.07
DMN_MiddleTemporal(L)	LN_InferiorTemporal(L)	4.24	0.11	-8.31	<0.01	0.01	0.30	0.11
DMN_MiddleFrontal(L)	SMN_SuperiorTemporal(L)	1.77	0.40	-10.44	<0.01	<0.01	0.33	0.09
DMN_MiddleFrontal(L)	SMN_SuperiorTemporal(R)	1.46	0.53	-6.04	0.01	0.04	0.33	0.05
DMN_InferiorTemporal(R)	SMN_SuperiorTemporal(L)	3.38	0.11	-4.78	0.01	0.03	0.31	0.16
DMN_AnteriorCingulate(R)	SN_SuperiorTemporal(R)	2.64	0.16	-5.70	<0.01	0.04	0.29	0.05
DMN_InferiorTemporal(R)	SN_SuperiorTemporal(R)	3.71	0.05	-5.10	<0.01	0.03	0.27	0.12
ECN_Striatum(L)	DAN_MiddleTemporal(R)	4.02	0.09	-9.12	<0.01	0.01	0.29	0.04
ECN_Striatum(L)	DAN_Postcentral(R)	2.56	0.32	-8.33	<0.01	0.04	0.26	0.10
ECN_Precuneus(R)	Hippocampus_LC(L)	2.74	0.31	-12.86	<0.01	<0.01	0.32	0.05
ECN_Precuenus(L)	Hippocampus_RC(R)	1.86	0.45	-10.16	<0.01	0.01	0.27	0.07
ECN_MiddleCingulate(R)	Hippocampus_LA(L)	4.14	0.11	-8.97	<0.01	0.03	0.27	0.11
ECN_MiddleCingulate(R)	Hippocampus_RC(R)	1.60	0.48	-8.60	<0.01	0.02	0.26	0.05
ECN_Precuneus(R)	Hippocampus_RC(R)	3.02	0.21	-8.13	<0.01	0.04	0.29	0.02
ECN_Striatum(R)	LN_TemporalPole(R)	4.44	0.13	-7.58	0.01	0.03	0.27	0.08

Seed	Target	Sertraline Arm		Placebo Arm		moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
ECN_Striatum(R)	SN_Supramarginal (L)	0.57	0.83	-9.40	<0.01	0.02	0.31	0.07
ECN_MiddleFrontal(R)	SN_MiddleFrontal(L)	-0.38	0.82	-7.91	<0.01	<0.01	0.31	0.15
ECN_Striatum(L)	SN_SupplementaryMotorArea(R)	3.38	0.27	-6.09	0.03	0.04	0.25	0.12
ECN_OrbitalMiddleFrontal(R)	VN_InferiorOccipital(R)	3.30	0.15	-6.56	<0.01	<0.01	0.31	0.06
ECN_Supramarginal(R)	VN_InferiorOccipital(R)	0.86	0.67	-5.64	<0.01	0.04	0.30	0.12
SN_PosteriorInsula (L)	VN_Lingual(L)	0.57	0.78	-11.15	<0.01	0.03	0.28	-0.02
DAN_Superior Frontal (L)	DMN_MiddleTemporal(L)	-3.95	0.07	4.68	0.03	<0.01	0.32	-0.23
DAN_InferiorFrontal(R)	ECN_MiddleCingulate(R)	-0.49	0.80	6.85	<0.01	0.01	0.34	-0.14
DAN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	-0.91	0.64	7.42	<0.01	0.01	0.34	-0.17
DAN_SuperiorParietal(L)	ECN_Striatum(R)	-2.00	0.52	8.72	<0.01	0.03	0.25	-0.14
DAN_Striatum(R)	SMN_Precentral(L)	-1.21	0.66	9.70	<0.01	0.04	0.28	-0.03
DAN_InferiorFrontal(R)	SN_MiddleCingulate(L)	0.24	0.90	5.59	0.01	0.04	0.30	-0.21
DAN_MiddleTemporal(R)	SN_MiddleFrontal(L)	-1.52	0.45	9.07	<0.01	0.03	0.27	-0.13
DMN_MiddleFrontal(L)	DMN_PosteriorCingulate(L)	-4.22	0.05	1.82	0.33	0.05	0.29	-0.15
DMN_MiddleFrontal(L)	DMN_SuperiorTemporal(R)	-4.27	0.05	3.16	0.14	0.01	0.31	-0.19
DMN_OrbitalInferiorFrontal(R)	DMN_Precuneus(L)	-2.27	0.27	4.47	0.03	0.03	0.26	-0.11
DMN_OrbitalInferiorFrontal(R)	DMN_PosteriorCingulate(L)	-2.43	0.27	4.65	0.02	0.04	0.25	-0.12
DMN_PosteriorCingulate(L)	ECN_Striatum(R)	-4.30	0.10	6.59	0.01	0.01	0.30	-0.19
DMN_MiddleFrontal(R)	Amygdala(R)	-4.71	0.08	4.83	0.13	0.03	0.28	-0.13
DMN_InferiorOrbitofrontal(L)	LN_Striatum(L)	-0.72	0.80	9.69	<0.01	0.04	0.29	-0.08
DMN_Precuneus(L)	SMN_Precentral(L)	-1.50	0.57	6.58	0.01	0.05	0.25	-0.11
DMN_Striatum(R)	Thalamus(L)	-3.99	0.12	8.34	<0.01	0.04	0.28	-0.09
DMN_Precuenus(R)	VN_MiddleTemporal(L)	-3.50	0.11	3.76	0.06	0.03	0.33	-0.13
DMN_InferiorOrbitofrontal(L)	VN_Fusiform(R)	-2.40	0.26	4.17	0.07	0.03	0.30	-0.19
DMN_InferiorOrbitofrontal(L)	VN_Fusiform(L)	-2.12	0.43	6.46	0.01	0.03	0.27	-0.13
ECN_MiddleCingulate(L)	ECN_MiddleFrontal(R)	-2.12	0.40	5.80	0.01	0.03	0.32	-0.19

Seed	Target	Sertraline Arm		Placebo Arm		moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
ECN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	-2.35	0.25	7.93	<0.01	<0.01	0.32	-0.14
ECN_Precuenus(L)	LN_Striatum(L)	-0.96	0.68	9.95	<0.01	0.01	0.27	-0.11
ECN_Precuneus(R)	SN_Striatum(R)	-3.73	0.13	4.34	0.06	0.03	0.30	-0.24
ECN_Precuenus(L)	SN_Striatum(L)	-2.97	0.21	8.88	<0.01	<0.01	0.32	-0.18
ECN_MiddleCingulate(R)	SN_Striatum(R)	-2.04	0.48	9.34	<0.01	0.02	0.31	-0.12
LN_Striatum(L)	SMN_SuperiorTemporal(L)	-4.09	0.08	6.42	0.06	0.04	0.28	-0.06
LN_Striatum(R)	SMN_Precentral(L)	-3.87	0.21	8.37	0.01	0.02	0.26	-0.09
LN_Striatum(R)	SMN_SuperiorTemporal(L)	-3.40	0.20	9.12	<0.01	<0.01	0.32	-0.17
LN_Striatum(R)	SMN_Postcentral(R)	-1.02	0.73	11.76	<0.01	0.03	0.29	-0.06
Amygdala(L)	VN_Lingual(L)	-4.24	0.08	5.18	0.05	0.03	0.32	-0.15
LN_Striatum(R)	VN_Calcarine(R)	-4.28	0.12	8.17	<0.01	<0.01	0.30	-0.21
LN_Striatum(R)	VN_Lingual(R)	-2.63	0.36	11.26	<0.01	<0.01	0.31	-0.18
LN_Striatum(R)	VN_Calcarine(L)	-2.24	0.42	12.35	<0.01	<0.01	0.32	-0.21
SMN_Precentral(R)	SN_AnteriorCingulate(L)	-2.35	0.25	6.16	0.02	0.05	0.30	-0.07
SMN_Striatum(L)	SN_MiddleCingulate(R)	-3.71	0.11	8.38	0.01	0.02	0.32	-0.14
SMN_Striatum(L)	VN_Calcarine(L)	-0.06	0.98	7.84	<0.01	0.04	0.28	-0.11
SN_MiddleCingulate(L)	SN_SupplementaryMotorArea(R)	-1.41	0.51	6.92	<0.01	0.01	0.31	-0.16
SN_PosteriorInsula (L)	Thalamus(L)	1.03	0.63	10.16	<0.01	0.05	0.29	-0.04
SN_Insula(R)	Thalamus(L)	0.39	0.88	10.85	<0.01	0.03	0.30	-0.04
Thalamus(L)	VN_Lingual(R)	-2.17	0.31	5.66	0.01	0.04	0.27	-0.12
Thalamus(L)	VN_Calcarine(L)	-3.55	0.09	5.87	0.01	0.01	0.30	-0.16

* Sign of effect size indicates whether the outcome is favored by high connectivity or low connectivity. Positive effect size indicates that higher connectivity is associated with better outcome with placebo.

TABLE S7. Moderator effect driven by opposite direction predictions in the sertraline and placebo arms

Seed	Target	Sertraline Arm		Placebo Arm		Moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
SN_Striatum(R)	VN_SuperiorOccipital(L)	-7.43	0.02	6.63	<0.01	0.02	0.27	-0.11
Hippocampus_RA(R)	SN_AnteriorInsula (L)	-6.78	0.03	8.74	<0.01	<0.01	0.34	-0.22
ECN_Precuenus(L)	ECN_Striatum(R)	-6.27	0.01	5.79	0.02	<0.01	0.33	-0.13
DMN_Striatum(R)	ECN_Precuenus(L)	-5.49	0.02	6.73	0.01	0.01	0.33	-0.11
DAN_PostCentral(L)	DMN_MiddleTemporal(L)	-5.01	0.01	4.99	0.01	<0.01	0.30	-0.15
SMN_Striatum(R)	SN_MiddleCingulate(L)	-5.00	0.03	8.89	<0.01	<0.01	0.31	-0.22
DMN_MiddleTemporal(L)	SMN_Precentral(L)	-4.93	0.01	4.17	0.04	0.02	0.25	-0.12
DMN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	-4.66	0.03	6.60	0.01	<0.01	0.31	-0.23
DMN_MiddleTemporal(L)	SN_SupplementaryMotorArea(L)	-4.65	0.04	6.04	0.01	0.01	0.29	-0.15
DMN_MiddleTemporal(L)	SN_MiddleFrontal(L)	-4.40	0.04	5.58	0.01	0.01	0.27	-0.18
VN_Calcarine(R)	VN_Cuneus(R)	-3.98	0.01	3.07	0.03	0.02	0.29	-0.09
ECN_Angular(R)	SMN_SuperiorTemporal(L)	4.76	0.02	-5.12	0.02	0.03	0.26	0.07
DMN_InferiorOrbitofrontal(L)	SN_Striatum(L)	5.30	0.04	-7.88	0.02	0.04	0.24	0.05
SN_Striatum(L)	SN_Supramarginal(R)	5.90	0.01	-9.91	<0.01	<0.01	0.31	0.21
Hippocampus_LA(L)	VN_SuperiorOccipital(L)	6.05	0.04	-10.40	<0.01	<0.01	0.30	0.15
DMN_Striatum(R)	LN_TemporalPole(R)	6.05	0.02	-6.91	<0.01	<0.01	0.29	0.08
ECN_OrbitalMiddleFrontal(R)	SMN_SuperiorTemporal(R)	6.11	0.01	-6.11	0.01	<0.01	0.31	0.06
SMN_RolandicOperculum(R)	SN_Striatum(L)	6.16	0.02	-8.23	0.01	<0.01	0.34	0.11
LN_InferiorTemporal(L)	SMN_Insula (L)	6.39	0.01	-7.09	<0.01	<0.01	0.36	0.10
Hippocampus_LC(L)	Thalamus(L)	6.46	0.04	-7.76	<0.01	0.03	0.29	-0.05
DMN_SuperiorTemporal(R)	ECN_OrbitalMiddleFrontal(R)	6.48	<0.01	-5.95	0.01	0.02	0.30	-0.04
Hippocampus_LA(L)	VN_Cuneus(L)	6.75	0.02	-7.06	0.01	0.02	0.25	0.10
ECN_Supramarginal(R)	SN_Striatum(L)	6.76	0.02	-6.04	0.05	0.01	0.30	0.04
DMN_InferiorOrbitofrontal(L)	ECN_MiddleFrontal(R)	6.83	<0.01	-6.50	0.01	<0.01	0.30	0.17

Seed	Target	Sertraline Arm		Placebo Arm		Moderator FDR p value	LOO correlation coefficient	* Effect Size
		Regression Coefficient	p value	Regression Coefficient	p value			
DAN_SuperiorParietal(L)	Hippocampus_RC(R)	6.97	0.02	-12.01	<0.01	<0.01	0.30	0.14
ECN_OrbitalMiddleFrontal(R)	SMN_SuperiorTemporal(L)	6.98	<0.01	-7.65	<0.01	<0.01	0.30	0.08
LN_Amygdala(L)	SN_Supramarginal (L)	7.01	0.01	-4.71	0.04	0.03	0.25	0.06
LN_InferiorTemporal(L)	SMN_SuperiorTemporal(L)	7.14	<0.01	-6.28	<0.01	<0.01	0.36	0.14
DAN_Striatum(L)	ECN_Angular(R)	7.34	0.01	-7.78	0.02	0.03	0.31	0.01
ECN_OrbitalMiddleFrontal(R)	SN_SuperiorTemporal(R)	7.38	<0.01	-7.65	<0.01	<0.01	0.33	0.09
DAN_Striatum(L)	DMN_InferiorTemporal(R)	7.38	0.02	-9.35	0.01	0.01	0.31	0.05
Hippocampus_LA(L)	VN_Calcarine(R)	8.10	<0.01	-5.23	0.05	0.01	0.29	0.14
Hippocampus_LA(L)	VN_Lingual(R)	8.65	<0.01	-6.52	0.03	0.04	0.25	0.12
DAN_SuperiorParietal(L)	Hippocampus_LA(L)	9.07	0.02	-8.31	<0.01	0.03	0.25	0.05
DAN_Striatum(L)	LN_TemporalPole(R)	9.20	<0.01	-6.48	0.04	0.01	0.31	0.10
ECN_Precuneus(R)	Hippocampus_LA(L)	9.76	<0.01	-6.81	0.01	0.01	0.26	0.09
LN_InferiorTemporal(L)	SMN_SuperiorTemporal(R)	9.88	<0.01	-4.34	0.03	<0.01	0.31	0.14

* Sign of effect size indicates whether the outcome is favored by high connectivity or low connectivity. Positive effect size indicates that higher connectivity is associated with better outcome with placebo.

TABLE S8. Sensitivity and specificity for moderators

Seed	Target	Sensitivity	Specificity
DAN_Precuneus(L)	DMN_InferiorTemporal(L)	0.46	0.70
DAN_Precuneus(L)	ECN_Striatum(R)	0.34	0.74
DMN_InferiorTemporal(R)	DMN_MiddleFrontal(L)	0.46	0.67
DMN_InferiorFrontal(R)	DMN_SuperiorMedialFrontal(L)	0.77	0.36
DMN_Angularl(L)	DMN_InferiorFrontal(L)	0.39	0.68
DMN_MiddleFrontal(L)	DMN_OrbitalInferiorFrontal(R)	1.00	0.01
DMN_Angularl(L)	DMN_OrbitalInferiorFrontal(R)	1.00	0.01
DMN_MedialOrbitofrontal(L)	DMN_MiddleFrontal(R)	0.44	0.66
DMN_Angular(R)	DMN_Angularl(L)	0.38	0.75
DMN_InferiorOrbitofrontal(L)	DMN_Precuenus(R)	0.86	0.20
DMN_MiddleTemporal(R)	DMN_Precuneus(L)	0.52	0.60
DMN_InferiorFrontal(R)	DMN_PosteriorCingulate(L)	0.29	0.79
DMN_MiddleFrontal(R)	DMN_PosteriorCingulate(L)	0.29	0.79
DMN_InferiorOrbitofrontal(L)	DMN_Precuneus(L)	0.52	0.60
DMN_MiddleFrontal(L)	DMN_SuperiorTemporal(R)	0.64	0.43
DMN_MiddleFrontal(L)	DMN_PosteriorCingulate(L)	0.29	0.79
DMN_MiddleFrontal(L)	ECN_Striatum(R)	0.34	0.74
DMN_PosteriorCingulate(L)	LN_TemporalPole(R)	0.41	0.68
DMN_MiddleFrontal(R)	LN_Amygdala(L)	0.91	0.15
DMN_Precuneus(L)	SN_Striatum(L)	0.14	0.90
ECN_InferiorParietal(L)	ECN_OrbitalMiddleFrontal(R)	0.19	0.83
ECN_Precuneus(R)	VN_Calcarine(L)	0.39	0.69
Hippocampus_LC(L)	Amygdala(L)	0.39	0.68
Hippocampus_RA(R)	SMN_Paracentral(L)	0.52	0.56

Seed	Target	Sensitivity	Specificity
LN_InferiorTemporal(L)	DAN_SuperiorParietal(R)	1.00	0.01
LN_Striatum(R)	VN_MiddleOccipital(R)	0.99	0.06
SMN_Paracentral(L)	SN_SuperiorTemporal(R)	0.66	0.51
SMN_SuperiorTemporal(L)	SN_AnteriorInsula (L)	0.67	0.36
VN_Fusiform(R)	VN_Fusiform(R)	1.00	0.03
DMN_InferiorFrontal(L)	SMN_Striatum(R)	0.59	0.47
Hippocampus_RA(R)	VN_SuperiorOccipital(L)	0.51	0.56
DMN_Striatum(L)	LN_TemporalPole(R)	0.41	0.68
LN_TemporalPole(R)	Thalamus(R)	0.07	0.97
SMN_Postcentral(R)	SN_Striatum(L)	0.14	0.90
ECN_OrbitalMiddleFrontal(R)	SN_Striatum(R)	0.30	0.76
DMN_InferiorFrontal(L)	SN_Striatum(L)	0.14	0.90
DAN_Striatum(R)	ECN_Striatum(R)	0.34	0.74
DAN_SuperiorParietal(L)	Hippocampus_RA(R)	0.86	0.21
DAN_Striatum(R)	Amygdala(L)	0.39	0.68
DAN_Striatum(R)	SN_Striatum(R)	0.14	0.90
DMN_Precuneus(L)	DAN_Precuneus(R)	0.16	0.88
DMN_InferiorOrbitofrontal(L)	ECN_OrbitalMiddleFrontal(R)	0.19	0.83
DMN_MiddleFrontal(L)	LN_Striatum(R)	0.43	0.72
DMN_MiddleTemporal(L)	LN_InferiorTemporal(L)	0.26	0.84
DMN_MiddleFrontal(L)	SMN_SuperiorTemporal(L)	0.76	0.38
DMN_MiddleFrontal(L)	SMN_SuperiorTemporal(R)	0.36	0.76
DMN_InferiorTemporal(R)	SMN_SuperiorTemporal(L)	0.76	0.38
DMN_AnteriorCingulate(R)	SN_SuperiorTemporal(R)	0.66	0.51
DMN_InferiorTemporal(R)	SN_SuperiorTemporal(R)	0.66	0.51

Seed	Target	Sensitivity	Specificity
ECN_Striatum(L)	DAN_MiddleTemporal(R)	0.39	0.65
ECN_Striatum(L)	DAN_Postcentral(R)	0.32	0.80
ECN_Precuneus(R)	Hippocampus_LC(L)	0.46	0.63
ECN_Precuenus(L)	Hippocampus_RC(R)	0.24	0.84
ECN_MiddleCingulate(R)	Hippocampus_LA(L)	0.84	0.27
ECN_MiddleCingulate(R)	Hippocampus_RC(R)	0.24	0.84
ECN_Precuneus(R)	Hippocampus_RC(R)	0.24	0.84
ECN_Striatum(R)	LN_TemporalPole(R)	0.41	0.68
ECN_Striatum(R)	SN_Supramarginal (L)	0.92	0.13
ECN_MiddleFrontal(R)	SN_MiddleFrontal(L)	0.34	0.75
ECN_Striatum(L)	SN_SupplementaryMotorArea(R)	0.61	0.47
ECN_OrbitalMiddleFrontal(R)	VN_InferiorOccipital(R)	0.87	0.16
ECN_Supramarginal(R)	VN_InferiorOccipital(R)	0.87	0.16
SN_PosteriorInsula (L)	VN_Lingual(L)	0.08	0.97
DAN_Superior Frontal (L)	DMN_MiddleTemporal(L)	0.59	0.54
DAN_InferiorFrontal(R)	ECN_MiddleCingulate(R)	0.34	0.75
DAN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	0.29	0.81
DAN_SuperiorParietal(L)	ECN_Striatum(R)	0.34	0.74
DAN_Striatum(R)	SMN_Precentral(L)	0.26	0.83
DAN_InferiorFrontal(R)	SN_MiddleCingulate(L)	0.17	0.90
DAN_MiddleTemporal(R)	SN_MiddleFrontal(L)	0.34	0.75
DMN_MiddleFrontal(L)	DMN_PosteriorCingulate(L)	0.29	0.79
DMN_MiddleFrontal(L)	DMN_SuperiorTemporal(R)	0.64	0.43
DMN_OrbitalInferiorFrontal(R)	DMN_Precuneus(L)	0.52	0.60
DMN_OrbitalInferiorFrontal(R)	DMN_PosteriorCingulate(L)	0.29	0.79

Seed	Target	Sensitivity	Specificity
DMN_PosteriorCingulate(L)	ECN_Striatum(R)	0.34	0.74
DMN_MiddleFrontal(R)	LN_Amygdala(L)	0.91	0.15
DMN_InferiorOrbitofrontal(L)	LN_Striatum(R)	0.99	0.09
DMN_Precuneus(L)	SMN_Precentral(L)	0.26	0.83
DMN_Striatum(R)	Thalamus(L)	0.39	0.68
DMN_Precuenus(R)	VN_MiddleTemporal(L)	0.60	0.48
DMN_InferiorOrbitofrontal(L)	VN_Fusiform(R)	0.91	0.11
DMN_InferiorOrbitofrontal(L)	VN_Fusiform(L)	0.63	0.49
ECN_MiddleCingulate(L)	ECN_MiddleFrontal(R)	0.26	0.78
ECN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	0.29	0.81
ECN_Precuenus(L)	LN_Striatum(R)	0.99	0.09
ECN_Precuneus(R)	SN_Striatum(R)	0.30	0.76
ECN_Precuenus(L)	SN_Striatum(R)	0.30	0.76
ECN_MiddleCingulate(R)	SN_Striatum(L)	0.14	0.90
LN_Striatum(L)	SMN_SuperiorTemporal(L)	0.76	0.38
LN_Striatum(R)	SMN_Precentral(L)	0.26	0.83
LN_Striatum(R)	SMN_SuperiorTemporal(L)	0.76	0.38
LN_Striatum(R)	SMN_Postcentral(R)	0.56	0.59
Amygdala(L)	VN_Lingual(L)	0.08	0.97
LN_Striatum(R)	VN_Calcarine(R)	0.33	0.69
LN_Striatum(R)	VN_Lingual(R)	0.49	0.60
LN_Striatum(R)	VN_Calcarine(L)	0.57	0.50
SMN_Precentral(R)	SN_AnteriorCingulate(L)	0.33	0.78
SMN_Striatum(R)	SN_MiddleCingulate(R)	0.51	0.55
SMN_Striatum(R)	VN_Calcarine(L)	0.39	0.69

Seed	Target	Sensitivity	Specificity
SN_MiddleCingulate(L)	SN_SupplementaryMotorArea(R)	0.61	0.47
SN_PosteriorInsula (L)	Thalamus(L)	0.39	0.68
SN_Insula(R)	Thalamus(L)	0.39	0.68
Thalamus(L)	VN_Lingual(R)	0.49	0.60
Thalamus(L)	VN_Calcarine(L)	0.57	0.50
SN_Striatum(R)	VN_SuperiorOccipital(L)	0.51	0.56
Hippocampus_RA(R)	SN_AnteriorInsula (L)	0.67	0.36
ECN_Precuenus(L)	ECN_Striatum(LR)	0.34	0.74
DMN_Striatum(R)	ECN_Precuenus(L)	0.08	0.94
DAN_PostCentral(L)	DMN_MiddleTemporal(L)	0.59	0.54
SMN_Striatum(R)	SN_MiddleCingulate(L)	0.17	0.90
DMN_MiddleTemporal(L)	SMN_Precentral(L)	0.26	0.83
DMN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	0.29	0.81
DMN_MiddleTemporal(L)	SN_SupplementaryMotorArea(L)	0.64	0.48
DMN_MiddleTemporal(L)	SN_MiddleFrontal(L)	0.34	0.75
VN_Calcarine(R)	VN_Cuneus(R)	0.96	0.08
ECN_Angular(R)	SMN_SuperiorTemporal(L)	0.76	0.38
DMN_InferiorOrbitofrontal(L)	SN_Striatum(L)	0.14	0.90
SN_Striatum(L)	SN_Supramarginal(R)	0.82	0.24
Hippocampus_LA(L)	VN_SuperiorOccipital(L)	0.51	0.56
DMN_Striatum(R)	LN_TemporalPole(R)	0.41	0.68
ECN_OrbitalMiddleFrontal(R)	SMN_SuperiorTemporal(R)	0.36	0.76
SMN_RolandicOperculum(R)	SN_Striatum(L)	0.14	0.90
LN_InferiorTemporal(L)	SMN_Insula (L)	0.57	0.58
Hippocampus_LC(L)	Thalamus(L)	0.39	0.68

Seed	Target	Sensitivity	Specificity
DMN_SuperiorTemporal(R)	ECN_OrbitalMiddleFrontal(R)	0.19	0.83
Hippocampus LA(L)	VN_Cuneus(L)	0.93	0.10
ECN_Supramarginal(R)	SN_Striatum(L)	0.14	0.90
DMN_InferiorOrbitofrontal(L)	ECN_MiddleFrontal(R)	1.00	0.04
DAN_SuperiorParietal(L)	Hippocampus_RC(R)	0.24	0.84
ECN_OrbitalMiddleFrontal(R)	SMN_SuperiorTemporal(L)	0.76	0.38
Amygdala(R)	SN_Supramarginal (L)	0.92	0.13
LN_InferiorTemporal(L)	SMN_SuperiorTemporal(L)	0.76	0.38
DAN_Striatum(L)	ECN_Angular(R)	0.31	0.76
ECN_OrbitalMiddleFrontal(R)	SN_SuperiorTemporal(R)	0.66	0.51
DAN_Striatum(L)	DMN_InferiorTemporal(R)	0.58	0.54
Hippocampus_LA(L)	VN_Calcarine(R)	0.33	0.69
Hippocampus_LA(L)	VN_Lingual(R)	0.49	0.60
DAN_SuperiorParietal(L)	Hippocampus_LA(L)	0.84	0.27
DAN_Striatum(L)	LN_TemporalPole(R)	0.41	0.68
ECN_Precuneus(R)	Hippocampus_LA(L)	0.84	0.27
LN_InferiorTemporal(L)	SMN_SuperiorTemporal(R)	0.36	0.76

TABLE S9. Moderators' level of functional connectivity driven by predictions only in sertraline (remission, non remission and more than 25% improvement, and non remission and less than 25% improvement) compared to healthy controls.

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
DAN_Precuneus(L)	DMN_InferiorTemporal(L)	-0.33	-0.09	-0.69	-0.50	-0.06	-0.64
DAN_Precuneus(L)	ECN_Striatum(R)	0.01	-0.17	0.09	-0.04	0.07	-0.16
DMN_InferiorTemporal(R)	DMN_MiddleFrontal(L)	0.09	0.08	-0.04	0.07	0.04	-0.02
DMN_InferiorFrontal(R)	DMN_SuperiorMedialFrontal(L)	-0.34	-0.22	-0.16	-0.40	-0.21	-0.20
DMN_Angularl(L)	DMN_InferiorFrontal(L)	0.31	0.09	-0.06	0.04	0.10	0.22
DMN_MiddleFrontal(L)	DMN_OrbitalInferiorFrontal(R)	0.06	-0.17	0.08	0.04	-0.01	-0.07
DMN_Angularl(L)	DMN_OrbitalInferiorFrontal(R)	0.04	-0.12	0.01	-0.22	0.14	-0.05
DMN_MedialOrbitofrontal(L)	DMN_MiddleFrontal(R)	0.03	0.06	0.07	-0.01	-0.09	0.26
DMN_Angular(R)	DMN_Angularl(L)	0.00	-0.06	-0.27	-0.08	0.02	-0.30
DMN_InferiorOrbitofrontal(L)	DMN_Precuenus(R)	0.15	0.00	0.04	0.04	0.05	0.08
DMN_MiddleTemporal(R)	DMN_Precuneus(L)	-0.02	-0.01	-0.05	-0.10	0.09	-0.13
DMN_InferiorFrontal(R)	DMN_PosteriorCingulate(L)	-0.19	-0.24	-0.34	-0.36	-0.18	-0.25
DMN_MiddleFrontal(R)	DMN_PosteriorCingulate(L)	-0.11	0.08	-0.26	-0.06	-0.11	-0.14
DMN_InferiorOrbitofrontal(L)	DMN_Precuneus(L)	0.16	0.05	0.13	0.03	0.16	0.13
DMN_MiddleFrontal(L)	DMN_SuperiorTemporal(R)	0.21	0.09	0.10	0.15	0.18	0.02
DMN_MiddleFrontal(L)	DMN_PosteriorCingulate(L)	-0.09	0.11	-0.06	-0.09	-0.06	0.12

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
DMN_MiddleFrontal(L)	ECN_Striatum(R)	-0.17	-0.14	-0.04	-0.33	0.01	-0.04
DMN_PosteriorCingulate(L)	LN_TemporalPole(R)	-0.22	-0.09	-0.07	-0.18	0.04	-0.35
DMN_MiddleFrontal(R)	Amygdala(R)	-0.09	0.00	-0.01	-0.28	-0.01	0.16
DMN_Precuneus(L)	SN_Striatum(L)	-0.12	0.09	-0.09	-0.13	0.03	-0.06
ECN_InferiorParietal(L)	ECN_OrbitalMiddleFrontal(R)	0.11	-0.02	-0.29	-0.12	0.06	-0.15
ECN_Precuneus(R)	VN_Calcarine(L)	0.00	-0.19	0.03	-0.30	0.20	-0.19
Hippocampus_LC(L)	Amygdala(L)	0.02	0.19	-0.12	-0.09	0.08	0.12
Hippocampus_RA(R)	SMN_Paracentral(L)	0.29	0.13	-0.19	0.04	-0.18	0.50
LN_InferiorTemporal(L)	DAN_SuperiorParietal(R)	0.18	-0.18	-0.21	-0.09	0.08	-0.20
LN_Striatum(R)	VN_MiddleOccipital(R)	0.40	0.10	0.28	0.52	0.17	0.11
SMN_Paracentral(L)	SN_SuperiorTemporal(R)	-0.10	-0.04	-0.03	-0.10	-0.05	0.00
SMN_SuperiorTemporal(L)	SN_AnteriorInsula (L)	-0.64	-0.05	-0.19	-0.37	-0.28	-0.23
VN_Fusiform(R)	VN_Fusiform(R)	0.02	0.21	0.12	0.14	0.12	0.01
DMN_InferiorFrontal(L)	SMN_Striatum(L)	-0.11	-0.20	0.06	-0.04	-0.07	-0.15
Hippocampus_RA(R)	VN_SuperiorOccipital(L)	-0.45	-0.51	-0.19	-0.40	-0.28	-0.50
DMN_Striatum(L)	LN_TemporalPole(R)	-0.05	-0.17	0.13	0.03	-0.04	-0.05
LN_TemporalPole(R)	Thalamus(R)	0.25	0.00	0.49	0.39	0.29	0.04
SMN_Postcentral(R)	SN_Striatum(L)	0.00	-0.03	0.03	0.12	-0.15	0.03
ECN_OrbitalMiddleFrontal(R)	SN_Striatum(R)	0.05	-0.12	0.25	-0.12	0.21	-0.01
DMN_InferiorFrontal(L)	SN_Striatum(L)	0.17	-0.15	0.06	0.08	0.00	-0.08

None of the comparisons were significant at FDR p<0.05.

TABLE S10. Moderators' level of functional connectivity driven by predictions only in placebo (remission, non remission and more than 25% improvement, and non remission and less than 25% improvement) compared to healthy controls.

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
DAN_Striatum(R)	ECN_Striatum(L)	0.04	0.17	0.02	0.18	0.15	-0.08
DAN_SuperiorParietal(L)	Hippocampus_RA(R)	-0.34	-0.29	-0.18	-0.31	-0.20	-0.30
DAN_Striatum(R)	Amygdala(L)	0.12	0.23	0.37	0.35	0.17	0.16
DAN_Striatum(R)	SN_Striatum(L)	0.13	0.23	0.19	0.16	0.25	0.06
DMN_Precuneus(L)	DAN_Precuneus(R)	0.09	0.15	0.02	0.09	0.17	-0.06
DMN_InferiorOrbitofrontal(L)	ECN_OrbitalMiddleFrontal(R)	0.30	-0.35	0.17	-0.18	0.25	-0.05
DMN_MiddleFrontal(L)	LN_Striatum(L)	-0.35	-0.18	-0.14	-0.35	-0.16	-0.13
DMN_MiddleTemporal(L)	LN_InferiorTemporal(L)	-0.12	-0.27	-0.06	-0.31	0.02	-0.26
DMN_MiddleFrontal(L)	SMN_SuperiorTemporal(L)	0.12	-0.43	-0.25	-0.13	-0.24	-0.13
DMN_MiddleFrontal(L)	SMN_SuperiorTemporal(R)	0.03	-0.41	-0.28	-0.17	-0.24	-0.18
DMN_InferiorTemporal(R)	SMN_SuperiorTemporal(L)	-0.17	-0.26	-0.25	-0.12	-0.26	-0.28
DMN_AnteriorCingulate(R)	SN_SuperiorTemporal(R)	0.08	-0.26	-0.30	0.04	-0.13	-0.42
DMN_InferiorTemporal(R)	SN_SuperiorTemporal(R)	-0.09	-0.12	-0.25	-0.05	-0.18	-0.20
ECN_Striatum(L)	DAN_MiddleTemporal(R)	-0.24	-0.13	-0.01	-0.18	0.05	-0.32
ECN_Striatum(L)	DAN_Postcentral(R)	0.15	0.07	0.18	0.22	0.09	0.06
ECN_Precuneus(R)	Hippocampus_LC(L)	-0.06	-0.36	0.06	-0.10	-0.07	-0.18
ECN_Precuenus(L)	Hippocampus_RC(R)	-0.03	-0.02	-0.09	0.02	-0.06	-0.15
ECN_MiddleCingulate(R)	Hippocampus_LA(L)	-0.08	-0.21	-0.35	-0.21	-0.39	0.05
ECN_MiddleCingulate(R)	Hippocampus_RC(R)	-0.04	-0.18	-0.23	-0.10	-0.03	-0.36
ECN_Precuneus(R)	Hippocampus_RC(R)	0.10	0.05	0.06	0.20	0.11	-0.16
ECN_Striatum(R)	LN_TemporalPole(R)	-0.01	-0.24	-0.10	-0.07	-0.03	-0.22
ECN_Striatum(R)	SN_Supramarginal (L)	0.08	-0.10	-0.26	0.07	-0.03	-0.39

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
ECN_MiddleFrontal(R)	SN_MiddleFrontal(L)	-0.09	-0.24	-0.30	-0.22	-0.14	-0.27
ECN_Striatum(L)	SN_SupplementaryMotorArea(R)	-0.19	-0.19	-0.17	-0.24	-0.09	-0.23
ECN_OrbitalMiddleFrontal(R)	VN_InferiorOccipital(R)	0.16	-0.08	0.06	-0.11	0.22	-0.05
ECN_Supramarginal(R)	VN_InferiorOccipital(R)	-0.05	-0.10	0.18	-0.01	0.10	-0.17
SN_PosteriorInsula (L)	VN_Lingual(L)	0.00	-0.07	-0.19	-0.19	0.00	-0.11
DAN_Superior Frontal (L)	DMN_MiddleTemporal(L)	-0.12	0.28	0.06	0.20	-0.05	0.12
DAN_InferiorFrontal(R)	ECN_MiddleCingulate(R)	0.19	0.08	0.09	0.32	0.03	0.06
DAN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	-0.04	-0.05	-0.03	0.13	-0.02	-0.24
DAN_SuperiorParietal(L)	ECN_Striatum(R)	0.23	0.25	0.38	0.29	0.34	0.22
DAN_Striatum(R)	SMN_Precentral(L)	0.13	0.51	0.61	0.27	0.34	0.53
DAN_InferiorFrontal(R)	SN_MiddleCingulate(L)	-0.13	-0.14	-0.20	-0.09	-0.04	-0.31
DAN_MiddleTemporal(R)	SN_MiddleFrontal(L)	-0.13	-0.27	-0.25	-0.29	-0.26	-0.13
DMN_MiddleFrontal(L)	DMN_PosteriorCingulate(L)	-0.09	0.11	-0.06	-0.09	-0.06	0.12
DMN_MiddleFrontal(L)	DMN_SuperiorTemporal(R)	0.21	0.09	0.10	0.15	0.18	0.02
DMN_OrbitalInferiorFrontal(R)	DMN_Precuneus(L)	0.15	-0.03	0.13	-0.01	0.17	0.06
DMN_OrbitalInferiorFrontal(R)	DMN_PosteriorCingulate(L)	0.02	-0.04	-0.09	-0.16	0.06	-0.02
DMN_PosteriorCingulate(L)	ECN_Striatum(R)	-0.33	-0.29	-0.37	-0.48	-0.38	-0.13
DMN_MiddleFrontal(R)	Amygdala(R)	-0.09	0.00	-0.01	-0.28	-0.01	0.16
DMN_InferiorOrbitofrontal(L)	LN_Striatum(R)	-0.07	-0.23	-0.15	-0.25	-0.08	-0.09
DMN_Precuneus(L)	SMN_Precentral(L)	-0.11	0.06	-0.22	-0.16	-0.14	0.01
DMN_Striatum(R)	Thalamus(L)	0.21	0.28	0.41	0.44	0.11	0.37
DMN_Precuenus(R)	VN_MiddleTemporal(L)	0.10	0.44	0.09	0.16	0.41	-0.02
DMN_InferiorOrbitofrontal(L)	VN_Fusiform(R)	-0.10	-0.15	-0.31	-0.09	-0.15	-0.31
DMN_InferiorOrbitofrontal(L)	VN_Fusiform(L)	0.09	-0.12	0.11	0.05	-0.01	0.01

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
ECN_MiddleCingulate(L)	ECN_MiddleFrontal(R)	-0.10	-0.20	0.11	-0.02	0.04	-0.25
ECN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	-0.12	-0.39	-0.12	0.03	-0.30	-0.39
ECN_Precuenus(L)	LN_Striatum(R)	-0.22	0.04	0.17	0.12	0.08	-0.35
ECN_Precuneus(R)	SN_Striatum(R)	0.27	0.26	0.67	0.43	0.70	-0.06
ECN_Precuenus(L)	SN_Striatum(R)	0.12	0.31	0.38	0.21	0.67	-0.20
ECN_MiddleCingulate(R)	SN_Striatum(L)	-0.45	-0.01	-0.13	-0.17	-0.14	-0.28
LN_Striatum(L)	SMN_SuperiorTemporal(L)	0.16	-0.14	-0.13	-0.11	0.10	-0.07
LN_Striatum(R)	SMN_Precentral(L)	0.17	0.38	0.12	0.16	0.16	0.42
LN_Striatum(R)	SMN_SuperiorTemporal(L)	-0.08	-0.23	-0.35	-0.06	-0.24	-0.27
LN_Striatum(R)	SMN_Postcentral(R)	-0.02	0.19	-0.01	0.09	-0.08	0.29
Amygdala(L)	VN_Lingual(L)	-0.02	-0.05	-0.09	-0.01	-0.08	-0.04
LN_Striatum(R)	VN_Calcarine(R)	0.09	-0.03	0.22	0.12	0.15	-0.07
LN_Striatum(R)	VN_Lingual(R)	-0.12	-0.08	0.20	0.17	0.01	-0.27
LN_Striatum(R)	VN_Calcarine(L)	-0.18	-0.12	0.20	0.02	0.04	-0.29
SMN_Precentral(R)	SN_AnteriorCingulate(L)	-0.22	-0.17	-0.18	-0.27	-0.33	0.02
SMN_Striatum(R)	SN_MiddleCingulate(R)	0.00	0.20	-0.07	0.18	0.13	-0.19
SMN_Striatum(R)	VN_Calcarine(L)	0.29	0.05	-0.05	0.24	0.00	0.19
SN_MiddleCingulate(L)	SN_SupplementaryMotorArea(R)	-0.37	-0.24	-0.38	-0.44	-0.24	-0.31
SN_PosteriorInsula (L)	Thalamus(L)	0.17	-0.03	0.20	0.10	0.21	0.01
SN_Insula(R)	Thalamus(L)	0.14	0.09	0.19	0.09	0.23	0.10
Thalamus(L)	VN_Lingual(R)	0.17	0.07	0.25	0.20	0.38	-0.16
Thalamus(L)	VN_Calcarine(L)	0.04	-0.11	0.09	0.05	0.19	-0.30

None of the comparisons were significant at FDR p<0.05.

TABLE S11. Moderators' level of functional connectivity driven by predictions in both sertraline and placebo (remission, non remission and more than 25% improvement, and non remission and less than 25% improvement) compared to healthy controls.

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
SN_Striatum(L)	VN_SuperiorOccipital(L)	0.24	0.36	0.21	0.35	0.32	0.12
Hippocampus_RA(R)	SN_AnteriorInsula (L)	-0.07	0.14	0.06	0.00	0.03	0.12
ECN_Precuenus(L)	ECN_Striatum(R)	-0.17	0.05	-0.11	-0.01	-0.05	-0.20
DMN_Striatum(R)	ECN_Precuenus(L)	-0.06	0.07	0.02	0.08	0.03	-0.11
DAN_PostCentral(L)	DMN_MiddleTemporal(L)	-0.41	-0.03	-0.35	-0.30	-0.29	-0.24
SMN_Striatum(R)	SN_MiddleCingulate(L)	0.11	0.18	-0.12	0.06	0.26	-0.16
DMN_MiddleTemporal(L)	SMN_Precentral(L)	-0.11	0.21	-0.16	-0.11	-0.01	0.08
DMN_InferiorFrontal(R)	ECN_MiddleCingulate(L)	-0.15	-0.38	-0.12	-0.28	-0.13	-0.28
DMN_MiddleTemporal(L)	SN_SupplementaryMotorArea(L)	-0.22	0.17	-0.20	-0.02	-0.15	-0.03
DMN_MiddleTemporal(L)	SN_MiddleFrontal(L)	-0.16	-0.05	-0.32	-0.36	-0.13	-0.07
VN_Calcarine(R)	VN_Cuneus(R)	0.09	0.17	0.28	0.07	0.21	0.19
ECN_Angular(R)	SMN_SuperiorTemporal(L)	-0.06	-0.24	0.11	0.25	0.01	-0.52
DMN_InferiorOrbitofrontal(L)	SN_Striatum(L)	-0.22	-0.14	0.02	-0.02	-0.09	-0.28
SN_Striatum(L)	SN_Supramarginal(R)	0.12	0.12	0.24	0.14	0.23	0.01
Hippocampus_LA(L)	VN_SuperiorOccipital(L)	-0.10	-0.32	-0.16	-0.31	-0.05	-0.23
DMN_Striatum(R)	LN_TemporalPole(R)	0.09	-0.23	0.44	-0.01	0.24	0.07
ECN_OrbitalMiddleFrontal(R)	SMN_SuperiorTemporal(R)	0.10	-0.30	-0.07	0.09	-0.13	-0.25
SMN_RolandicOperculum(R)	SN_Striatum(R)	0.22	0.06	0.18	0.14	0.14	0.13
LN_InferiorTemporal(L)	SMN_Insula (L)	0.12	-0.08	0.07	0.20	-0.02	0.02
Hippocampus_LC(L)	Thalamus(L)	0.75	0.36	0.62	0.43	0.68	0.51
DMN_SuperiorTemporal(R)	ECN_OrbitalMiddleFrontal(R)	-0.02	-0.31	-0.01	-0.11	0.02	-0.34
Hippocampus_LA(L)	VN_Cuneus(L)	-0.02	-0.36	-0.10	-0.23	-0.05	-0.18

Seed	Target	Z Score - Sertraline			Z Score- Placebo		
		Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC	Remission vs. HC	Non Remission and Improve vs. HC	Non Remission and Not Improve vs. HC
ECN_Supramarginal(R)	SN_Striatum(R)	0.28	0.24	0.36	0.17	0.55	0.09
DMN_InferiorOrbitofrontal(L)	ECN_MiddleFrontal(R)	0.03	-0.04	0.26	-0.11	0.12	0.16
DAN_SuperiorParietal(L)	Hippocampus_RC(R)	-0.08	-0.25	-0.47	-0.30	-0.22	-0.30
ECN_OrbitalMiddleFrontal(R)	SMN_SuperiorTemporal(L)	0.15	-0.20	-0.04	0.13	-0.06	-0.14
Amygdala(R)	SN_Supramarginal (L)	0.16	0.11	0.30	0.17	0.18	0.23
LN_InferiorTemporal(L)	SMN_SuperiorTemporal(L)	-0.09	-0.40	-0.10	0.07	-0.21	-0.47
DAN_Striatum(L)	ECN_Angular(R)	-0.07	-0.01	0.15	-0.15	0.03	0.16
ECN_OrbitalMiddleFrontal(R)	SN_SuperiorTemporal(R)	-0.18	-0.17	-0.31	-0.26	-0.11	-0.37
DAN_Striatum(L)	DMN_InferiorTemporal(R)	-0.12	0.23	0.10	-0.27	0.08	0.38
Hippocampus_LA(L)	VN_Calcarine(R)	0.03	-0.09	0.07	0.03	-0.02	0.07
Hippocampus_LA(L)	VN_Lingual(R)	0.12	-0.03	0.03	-0.04	0.09	0.12
DAN_SuperiorParietal(L)	Hippocampus_LA(L)	0.13	0.00	0.10	-0.02	0.30	-0.10
DAN_Striatum(L)	LN_TemporalPole(R)	-0.20	-0.12	-0.16	-0.27	-0.02	-0.25
ECN_Precuneus(R)	Hippocampus_LA(L)	0.41	0.16	0.15	0.15	0.32	0.26
LN_InferiorTemporal(L)	SMN_SuperiorTemporal(R)	-0.07	-0.09	-0.04	0.10	-0.10	-0.26

None of the comparisons were significant at FDR p<0.05.

TABLE S12. Nonspecific Predictors

Seed	Target	FDR p value	Regression Coefficient	Effect Size
DAN_SuperiorParietal(L)	SN_Striatum(R)	<0.01	-1.53	-0.25
VN_Fusiform(L)	VN_Striatum(R)	<0.01	-1.94	-0.24
DMN_MiddleTemporal(L)	VN_Calcarine(R)	0.03	-2.33	-0.13
DMN_InferiorOrbitofrontal(L)	SN_MiddleCingulate(L)	0.03	-1.86	-0.12
SN_MiddleFrontal(L)	SMN_Postcentral(R)	0.02	-2.33	-0.12
DMN_MiddleTemporal(L)	DAN_SuperiorParietal(R)	0.00	-1.81	-0.12
VN_Lingual(L)	ECN_Precuneus(R)	0.04	-2.57	-0.12
DAN_PostCentral(L)	DMN_OrbitalInferiorFrontal(R)	0.04	-1.72	-0.12
DMN_SuperiorMedialFrontal(L)	DMN_InferiorFrontal(R)	0.03	-1.81	-0.12
DMN_Angularl(L)	DMN_PosteriorCingulate(R)	0.01	-1.71	-0.12
DMN_OrbitalInferiorFrontal(R)	Amygdala(R)	0.04	-2.07	-0.12
SN_PosteriorInsula (L)	Amygdala(L)	0.03	-1.74	-0.12
DMN_InferiorTemporal(L)	LN_SuperiorOrbitofrontal(R)	0.03	-2.50	-0.11
SMN_SuperiorTemporal(R)	Amygdala(R)	0.04	-1.95	-0.11
DMN_MiddleTemporal(L)	VN_Calcarine(L)	0.03	-2.27	-0.10
ECN_Precuneus(R)	VN_Lingual(R)	0.03	-2.29	-0.10
DMN_MiddleFrontal(L)	DMN_InferiorTemporal(R)	<0.01	-1.55	-0.10
VN_Calcarine(R)	Amygdala(R)	0.01	-1.60	-0.10
DAN_InferiorTemporal(L)	VN_Lingual(L)	0.01	-2.20	-0.09
DAN_SuperiorParietal(R)	VN_MiddleOccipital(R)	0.05	-2.00	-0.09
DMN_InferiorFrontal(R)	DMN_InferiorTemporal(R)	0.01	-1.49	-0.09
DMN_SuperiorMedialFrontal(R)	DMN_InferiorFrontal(R)	<0.01	-1.73	-0.09
SN_MiddleFrontal(L)	SMN_Striatum(R)	0.04	-1.57	-0.09
SN_PosteriorInsula (L)	Amygdala(R)	0.02	-1.73	-0.09
DMN_MiddleFrontal(L)	DMN_InferiorTemporal(L)	0.05	-1.27	-0.08
DMN_MiddleTemporal(L)	SMN_Precentral(R)	0.03	-1.91	-0.08

Seed	Target	FDR p value	Regression Coefficient	Effect Size
SN_AnteriorCingulate(L)	SN_Insula(R)	0.02	-1.58	-0.08
DMN_Striatum(L)	LN_Striatum(R)	0.05	-1.87	-0.08
ECN_Striatum®	DMN_Striatum(R)	0.04	-2.36	-0.08
SN_PosteriorInsula (L)	SN_AnteriorCingulate(L)	0.02	-1.55	-0.07
DMN_SuperiorMedialFrontal(L)	VN_Fusiform(R)	0.01	-2.00	-0.07
DMN_SuperiorMedialFrontal(R)	VN_Fusiform(R)	0.03	-1.56	-0.07
ECN_Precuenus(L)	DAN_Postcentral(R)	0.01	-1.51	-0.07
DMN_MiddleFrontal(L)	DAN_Precuneus(R)	0.03	-1.56	-0.07
ECN_InferiorFrontal(R)	SN_Insula(R)	<0.01	-1.49	-0.07
DMN_InferiorFrontal(L)	DMN_Angular(L)	0.01	-1.76	-0.07
DMN_Striatum(R)	ECN_Striatum(L)	0.03	-1.82	-0.07
SN_AnteriorCingulate(L)	Thalamus(L)	0.01	-2.46	-0.07
LN_OrbitalFrontalL)	VN_Lingual(L)	0.03	-1.89	-0.06
DMN_Angularl(L)	ECN_Angular(R)	0.01	-1.61	-0.06
DMN_MiddleFrontal(L)	ECN_OrbitalMiddleFrontal(R)	0.01	-1.89	-0.06
DMN_MiddleFrontal(R)	DMN_MiddleTemporal(R)	0.02	-1.81	-0.06
DMN_Angularl(L)	DMN_InferiorFrontal(R)	0.03	-1.55	-0.06
DMN_InferiorOrbitofrontal(L)	Amygdala(R)	0.03	-2.14	-0.06
DMN_MiddleTemporal(L)	VN_MiddleTemporal(L)	0.05	-1.50	-0.05
DAN_SuperiorParietal(L)	DAN_Precuneus(L)	0.02	-2.44	-0.05
DAN_Precuneus(L)	VN_Fusiform(R)	0.03	-2.28	-0.05
DAN_InferiorParietal(L)	VN_MiddleOccipital(R)	0.01	-1.88	-0.05
DMN_Angularl(L)	DMN_InferiorTemporal(R)	0.01	-1.63	-0.05
DMN_MiddleFrontal(L)	DMN_InferiorTemporal(R)	0.03	-1.83	-0.05
DMN_SuperiorMedialFrontal(L)	DMN_InferiorTemporal(R)	0.04	-1.72	-0.05
DMN_MiddleFrontal(L)	DMN_InferiorFrontal(R)	0.02	-1.21	-0.05
DMN_PosteriorCingulate(L)	DMN_Precuenus(R)	0.02	-1.78	-0.05

Seed	Target	FDR p value	Regression Coefficient	Effect Size
VN_Lingual(L)	Hippocampus_LC(L)	0.03	-2.51	-0.05
VN_MiddleOccipital(R)	DAN_InferiorTemporal(L)	0.05	-2.20	-0.04
SMN_Postcentral(L)	SN_MiddleCingulate(L)	0.03	-2.07	-0.04
SN_Insula(R)	VN_Lingual(R)	0.02	-2.13	-0.04
ECN_MiddleCingulate(R)	DMN_InferiorTemporal(R)	0.04	-1.53	-0.04
DMN_Angularl(L)	DMN_MiddleTemporal(R)	0.02	-1.85	-0.04
LN_InferiorTemporal(L)	SMN_Striatum(L)	0.02	-1.45	-0.04
SMN_Striatum(R)	SN_Striatum(L)	0.02	-2.14	-0.04
DAN_Precuneus(L)	DMN_Striatum(L)	0.02	-2.27	-0.04
DMN_InferiorTemporal(R)	Hippocampus_RC(R)	0.01	-1.89	-0.04
SMN_Striatum(R)	Hippocampus_LA(L)	0.02	-2.09	-0.04
DAN_SuperiorFrontal(R)	Thalamus(R)	0.03	-1.95	-0.04
SN_PosteriorInsula (L)	Thalamus(L)	0.03	-2.13	-0.04
SN_Insula(R)	Thalamus(L)	0.02	-1.90	-0.04
SMN_Striatum(R)	SMN_SuperiorTemporal(L)	0.05	-1.68	-0.03
DMN_Angularl(L)	SN_Supramarginal (L)	0.05	-1.81	-0.03
DMN_InferiorOrbitofrontal(L)	DMN_SuperiorMedialFrontal(L)	0.02	-1.50	-0.03
DAN_InferiorParietal(L)	VN_Fusiform(R)	<0.01	-1.93	-0.03
DAN_Precuneus(L)	VN_InferiorOccipital(R)	0.04	-1.62	-0.03
DMN_Angularl(L)	VN_Lingual(R)	0.02	-1.35	-0.03
SMN_SuperiorTemporal(L)	SMN_SuperiorTemporal(R)	0.02	-1.70	-0.03
DMN_SuperiorMedialFrontal(R)	SMN_Postcentral(R)	0.04	-1.70	-0.03
VN_MiddleTemporal(L)	DAN_MiddleTemporal(R)	0.04	-1.97	-0.03
DAN_Precuneus(L)	DAN_Precuneus(R)	0.05	-1.84	-0.03
SMN_Postcentral(L)	SN_MiddleCingulate(R)	<0.01	-1.68	-0.03
SN_Insula(R)	SN_SupplementaryMotorArea(R)	0.02	-1.76	-0.03
DMN_MiddleFrontal(L)	DMN_MiddleTemporal(R)	0.04	-0.98	-0.03

Seed	Target	FDR p value	Regression Coefficient	Effect Size
ECN_MiddleCingulate(L)	DMN_AnteriorCingulate(R)	<0.01	-1.62	-0.03
DMN_PosteriorCingulate(L)	DMN_PosteriorCingulate(R)	0.02	-1.89	-0.03
DMN_Precuenus(R)	DMN_PosteriorCingulate(R)	0.01	-1.98	-0.03
SN_MiddleFrontal(L)	ECN_Striatum(R)	<0.01	-1.25	-0.03
DAN_Superior Frontal (L)	LN_Striatum(L)	0.02	-1.69	-0.03
SN_AnteriorInsula (L)	Hippocampus_LA(L)	0.02	-1.96	-0.03
VN_Fusiform(R)	Hippocampus_LC(L)	<0.01	-2.37	-0.03
DAN_Precentral(L)	Thalamus(R)	0.03	-1.79	-0.03
DAN_InferiorParietal(L)	VN_Lingual(L)	<0.01	-1.83	-0.02
ECN_InferiorParietal(L)	DAN_SuperiorParietal(L)	0.01	-1.91	-0.02
DAN_Precuneus(L)	DAN_SuperiorParietal(L)	0.03	-1.96	-0.02
SN_AnteriorInsula (L)	SN_AnteriorCingulate(L)	<0.01	-1.53	-0.02
ECN_InferiorParietal(L)	ECN_InferiorFrontal(L)	<0.01	-2.18	-0.02
VN_Fusiform(L)	VN_Fusiform(R)	<0.01	-1.86	-0.02
DMN_MiddleFrontal(L)	VN_Lingual(R)	<0.010	-1.54	-0.02
SMN_Insula (L)	SMN_Postcentral(R)	0.03	-2.16	-0.02
DMN_InferiorOrbitofrontal(L)	DAN_SuperiorParietal(R)	0.01	-2.36	-0.02
DAN_InferiorTemporal(L)	ECN_InferiorFrontal(R)	0.02	-1.67	-0.02
ECN_Angular(R)	DMN_InferiorTemporal(R)	0.05	-1.60	-0.02
ECN_Angular(R)	DMN_MiddleTemporal(R)	0.05	-1.78	-0.02
ECN_MiddleFrontal(R)	DMN_OrbitalInferiorFrontal(R)	0.02	-2.08	-0.02
ECN_Striatum(R)	SN_Striatum(L)	0.03	-2.18	-0.02
DMN_PosteriorCingulate(L)	VN_Calcarine(L)	<0.01	-0.93	-0.01
SMN_SuperiorTemporal(L)	SMN_Postcentral(L)	<0.01	-1.84	-0.01
DMN_InferiorTemporal(L)	DMN_MiddleTemporal(L)	<0.01	-1.60	-0.01
ECN_MiddleCingulate(L)	DMN_Precuneus(L)	0.01	-1.78	-0.01
SMN_SuperiorTemporal(L)	SMN_Insula(R)	0.03	-1.68	-0.01

Seed	Target	FDR p value	Regression Coefficient	Effect Size
ECN_Precuenus(L)	SMN_RolandicOperculum(R)	0.04	-1.58	-0.01
SMN_Postcentral(L)	SMN_Postcentral(R)	<0.01	-2.10	-0.01
DMN_SuperiorTemporal(R)	SMN_Precentral(R)	0.02	-1.47	-0.01
DMN_MiddleTemporal(R)	DAN_MiddleTemporal(R)	0.02	-1.91	-0.01
DMN_PosteriorCingulate(R)	DAN_MiddleTemporal(R)	0.04	-1.90	-0.01
DMN_MiddleTemporal(L)	DMN_MiddleTemporal(R)	0.01	-1.75	-0.01
SN_Striatum(R)	ECN_Striatum(R)	0.03	-1.80	-0.01
SMN_SuperiorTemporal(L)	DMN_Striatum(R)	0.04	-2.16	-0.01
SMN_Postcentral(L)	SMN_Striatum(L)	0.03	-1.81	-0.01
DMN_InferiorTemporal(L)	ECN_Striatum(L)	0.03	-2.16	-0.01
DMN_Precuenus(R)	ECN_Striatum(L)	0.02	-2.07	-0.01
DMN_Striatum(R)	DMN_Striatum(L)	0.01	-1.70	-0.01
VN_Fusiform(L)	Hippocampus_LA(L)	0.04	-1.35	-0.01
SMN_Striatum(L)	ThalamusL)	0.03	-2.02	-0.01
DMN_MiddleFrontal(L)	VN_Lingual(L)	0.03	-1.66	0.00
SMN_Insula (L)	SMN_SuperiorTemporal(L)	0.02	-1.72	0.00
DAN_InferiorParietal(L)	DAN_PostCentral(L)	0.01	-2.32	0.00
DAN_InferiorTemporal(L)	VN_Fusiform(R)	<0.01	-1.92	0.00
DAN_SuperiorParietal(L)	VN_Fusiform(R)	0.03	-2.54	0.00
DMN_MiddleFrontal(L)	VN_Calcarine(R)	0.04	-1.76	0.00
DMN_MiddleFrontal(L)	VN_Lingual(R)	0.02	-1.69	0.00
SN_MiddleCingulate(R)	SMN_Postcentral(R)	<0.01	-1.71	0.00
ECN_Precuenus(L)	SMN_Postcentral(R)	0.04	-1.41	0.00
DAN_Superior Frontal (L)	DAN_SuperiorFrontal(R)	0.01	-2.09	0.00
DAN_SuperiorFrontal(R)	SN_SupplementaryMotorArea(R)	0.03	-1.87	0.00
DMN_MiddleTemporal(L)	LN_TemporalPole(R)	0.01	-1.59	0.00
VN_Lingual(L)	ECN_AnteriorCingulate(R)	0.01	-1.93	0.00

Seed	Target	FDR p value	Regression Coefficient	Effect Size
DMN_InferiorOrbitofrontal(L)	DMN_SuperiorMedialFrontal(R)	<0.01	-1.91	0.00
LN_TemporalPole(R)	SMN_Striatum(L)	0.02	-1.56	0.00
ECN_MiddleFrontal(R)	SMN_Striatum(L)	0.03	-1.26	0.00
SN_SupplementaryMotorArea(R)	Hippocampus_RC(R)	0.04	-1.63	0.00
SN_MiddleFrontal(L)	Thalamus(R)	0.03	-1.39	0.00
DMN_Precuneus(L)	DMN_PosteriorCingulate(L)	<0.01	-1.97	0.01
DAN_InferiorTemporal(L)	VN_InferiorOccipital(R)	<0.01	-1.60	0.01
DAN_InferiorParietal(L)	VN_InferiorOccipital(R)	0.01	-1.76	0.01
DMN_PosteriorCingulate(L)	VN_Lingual(R)	0.01	-1.60	0.01
DAN_SuperiorParietal(L)	VN_Cuneus(R)	0.04	-1.23	0.01
SN_SupplementaryMotorArea(L)	DAN_InferiorParietal(R)	0.03	-1.91	0.01
DMN_MiddleFrontal(L)	DAN_SuperiorParietal(R)	0.02	-1.62	0.01
VN_MiddleTemporal(L)	SN_SuperiorTemporal(R)	0.04	-1.84	0.01
DMN_InferiorFrontal(L)	ECN_MiddleFrontal(R)	<0.01	-1.86	0.01
DMN_SuperiorMedialFrontal(R)	DMN_InferiorTemporal(R)	0.01	-1.56	0.01
ECN_MiddleFrontal(R)	DMN_InferiorFrontal(R)	<0.01	-1.74	0.01
DMN_MiddleFrontal(L)	SMN_Striatum(R)	0.01	-2.19	0.01
SMN_Postcentral(R)	SMN_Striatum(L)	0.03	-1.70	0.01
DMN_MiddleFrontal(L)	Hippocampus_RC(R)	0.03	-1.76	0.01
VN_Lingual(L)	Hippocampus_LC(L)	0.02	-1.98	0.01
LN_InferiorTemporal(L)	Thalamus(L)	0.03	-1.82	0.01
DMN_MiddleFrontal(L)	VN_Lingual(L)	0.03	-1.60	0.02
DMN_Angularl(L)	VN_Calcarine(L)	0.03	-1.00	0.02
DMN_MiddleFrontal(L)	VN_Calcarine(L)	<0.01	-1.61	0.02
DMN_MiddleTemporal(L)	DMN_MiddleTemporal(L)	<0.01	-1.77	0.02
ECN_InferiorFrontal(R)	VN_Calcarine(R)	0.04	-1.85	0.02
SN_Supramarginal (L)	VN_MiddleOccipital(R)	0.04	-1.79	0.02

Seed	Target	FDR p value	Regression Coefficient	Effect Size
SMN_Insula (L)	SMN_Insula(R)	<0.01	-2.05	0.02
SMN_Postcentral(L)	SMN_RolandicOperculum(R)	<0.01	-1.94	0.02
DMN_MiddleTemporal(L)	DAN_MiddleTemporal(R)	<0.01	-1.59	0.02
DAN_SuperiorFrontal(R)	DAN_Postcentral(R)	0.02	-1.22	0.02
SMN_Paracentral(L)	DAN_SuperiorParietal(R)	0.03	-1.97	0.02
LN_InferiorTemporal(L)	ECN_InferiorFrontal(R)	0.01	-2.29	0.02
Hippocampus_LA(L)	ECN_MiddleFrontal(R)	0.05	-1.83	0.02
VN_Calcarine(L)	DMN_Angular(R)	0.03	-0.98	0.02
DMN_InferiorOrbitofrontal(L)	DMN_Angular(R)	0.04	-1.79	0.02
DMN_Angular(R)	DMN_MiddleTemporal(R)	0.02	-2.03	0.02
DMN_InferiorOrbitofrontal(L)	DMN_OrbitalInferiorFrontal(R)	0.01	-1.77	0.02
DMN_Angular(R)	DMN_InferiorFrontal(R)	<0.01	-1.62	0.02
DMN_Precuneus(L)	DMN_PosteriorCingulate(R)	<0.01	-2.47	0.02
DMN_MiddleTemporal(R)	SMN_Striatum(L)	0.03	-1.69	0.02
LN_Striatum(L)	DMN_Striatum(L)	0.01	-1.57	0.02
ECN_Supramarginal(R)	Hippocampus_RA(R)	0.03	-1.51	0.02
SN_AnteriorInsula (L)	Thalamus(L)	0.01	-2.01	0.02
DMN_InferiorOrbitofrontal(L)	LN_InferiorTemporal(L)	<0.01	-1.63	0.03
DAN_SuperiorParietal(L)	VN_Calcarine(R)	0.04	-1.59	0.03
SN_SupplementaryMotorArea(L)	DAN_SuperiorFrontal(R)	0.05	-1.58	0.03
Hippocampus_LA(L)	SN_Insula(R)	0.01	-1.95	0.03
DAN_InferiorParietal(L)	LN_TemporalPole(R)	0.03	-1.94	0.03
DMN_InferiorFrontal(L)	ECN_Angular(R)	0.03	-1.78	0.03
SN_Insula(R)	Hippocampus_LA(L)	0.01	-1.95	0.03
VN_MiddleOccipital(L)	Hippocampus_LC(L)	<0.01	-1.67	0.03
DAN_InferiorFrontal(R)	Thalamus(R)	<0.010	-1.89	0.03
DAN_Striatum(R)	Thalamus(R)	0.01	-1.55	0.03

Seed	Target	FDR p value	Regression Coefficient	Effect Size
DMN_SuperiorMedialFrontal(L)	VN_Lingual(R)	0.01	-1.67	0.04
SMN_SuperiorTemporal(L)	SMN_Postcentral(R)	0.01	-1.82	0.04
SMN_RolandicOperculum(R)	SMN_Postcentral(R)	<0.01	-1.73	0.04
DAN_InferiorTemporal(L)	ECN_MiddleFrontal(R)	0.04	-1.72	0.04
LN_InferiorTemporal(L)	DMN_InferiorFrontal(R)	0.04	-1.67	0.04
VN_Lingual(R)	DMN_SuperiorMedialFrontal(R)	0.05	-1.83	0.04
VN_Lingual(L)	DMN_MiddleFrontal(R)	0.02	-2.04	0.04
DMN_MiddleFrontal(L)	SMN_Striatum(R)	0.01	-1.48	0.04
DMN_InferiorTemporal(R)	Hippocampus_RA(R)	0.05	-1.82	0.04
DMN_Angularl(L)	Hippocampus_RC(R)	0.02	-1.70	0.04
DAN_InferiorFrontal(R)	Thalamus(L)	0.04	-2.13	0.04
DMN_InferiorTemporal(L)	DMN_MiddleTemporal(L)	<0.01	-1.44	0.05
ECN_MiddleCingulate(L)	DMN_MedialOrbitofrontal(L)	0.01	-1.77	0.05
SMN_Insula (L)	SMN_RolandicOperculum(R)	<0.01	-1.81	0.05
DMN_AnteriorCingulate(R)	SN_MiddleCingulate(R)	0.04	-2.60	0.05
ECN_Precuenus(L)	ECN_MiddleCingulate(R)	0.03	-2.16	0.05
DMN_MedialOrbitofrontal(L)	ECN_Precuneus(R)	0.01	-2.06	0.05
VN_Lingual(L)	DMN_AnteriorCingulate(R)	<0.01	-2.23	0.05
VN_Calcarine(L)	DMN_AnteriorCingulate(R)	0.02	-1.67	0.05
SMN_SuperiorTemporal(R)	DMN_Striatum(L)	0.02	-2.04	0.05
SN_MiddleFrontal(L)	DMN_Striatum(L)	0.03	-1.66	0.05
SN_SupplementaryMotorArea(R)	Thalamus(R)	0.04	-1.81	0.05
DMN_MedialOrbitofrontal(L)	VN_Calcarine(L)	0.01	-1.72	0.06
ECN_MiddleCingulate(L)	ECN_Precuenus(L)	0.01	-2.19	0.06
DMN_MiddleFrontal(R)	VN_Calcarine(R)	<0.01	-1.62	0.06
DMN_MiddleFrontal(R)	VN_Lingual(R)	0.01	-1.71	0.06
VN_SuperiorOccipital(L)	VN_MiddleOccipital(R)	0.03	-2.15	0.06

Seed	Target	FDR p value	Regression Coefficient	Effect Size
SMN_SuperiorTemporal(L)	SMN_RolandicOperculum(R)	<0.01	-1.65	0.06
DMN_InferiorOrbitofrontal(L)	DAN_InferiorParietal(R)	0.01	-2.08	0.06
DMN_MiddleFrontal(L)	DAN_SuperiorParietal(R)	0.01	-1.85	0.06
DAN_MiddleTemporal(R)	SN_SuperiorTemporal(R)	0.01	-1.76	0.06
DAN_SuperiorParietal(L)	ECN_InferiorFrontal(R)	0.02	-1.75	0.06
ECN_MiddleCingulate(L)	ECN_MiddleCingulate(R)	0.03	-1.90	0.06
VN_Calcarine(L)	DMN_MiddleFrontal(R)	<0.01	-1.59	0.06
VN_Fusiform(L)	Hippocampus_RA(R)	0.01	-1.81	0.06
VN_Fusiform(R)	Hippocampus_RC(R)	0.03	-2.04	0.06
DMN_MedialOrbitofrontal(L)	VN_Lingual(L)	<0.01	-2.28	0.07
DMN_SuperiorMedialFrontal(L)	VN_Calcarine(L)	0.03	-1.32	0.07
ECN_InferiorFrontal(L)	DAN_SuperiorParietal(L)	<0.01	-1.88	0.07
DMN_SuperiorMedialFrontal(L)	SMN_Postcentral(R)	0.03	-1.69	0.07
SN_AnteriorCingulate(L)	DAN_SuperiorParietal(R)	0.02	-1.89	0.07
ECN_InferiorFrontal(L)	DAN_SuperiorParietal(R)	0.01	-1.99	0.07
ECN_InferiorFrontal(L)	ECN_InferiorFrontal(R)	<0.01	-1.45	0.07
DMN_InferiorOrbitofrontal(L)	ECN_MiddleFrontal(R)	<0.01	-2.36	0.07
DMN_Precuneus(L)	ECN_Precuneus(R)	0.03	-2.65	0.07
VN_Calcarine(L)	DMN_SuperiorMedialFrontal(R)	0.04	-1.54	0.07
SN_Striatum(R)	DAN_Striatum(L)	0.05	-1.03	0.07
DAN_Striatum(L)	SN_Striatum(L)	0.05	-1.03	0.07
DMN_Striatum(R)	LN_Striatum(L)	<0.01	-1.45	0.07
VN_MiddleTemporal(L)	Hippocampus_RA(R)	0.03	-2.23	0.07
DMN_SuperiorMedialFrontal(L)	VN_Lingual(L)	0.04	-1.81	0.08
ECN_MiddleFrontal(R)	DAN_Striatum(R)	0.04	-1.81	0.08
ECN_MiddleFrontal(R)	ECN_Striatum(R)	0.02	-1.71	0.08
LN_InferiorTemporal(L)	SN_Striatum(L)	0.03	-1.99	0.08

Seed	Target	FDR p value	Regression Coefficient	Effect Size
LN_InferiorTemporal(L)	LN_Striatum(L)	0.04	-1.43	0.08
DMN_InferiorFrontal(L)	LN_Striatum(L)	0.02	-1.05	0.08
SN_MiddleCingulate(L)	Hippocampus_LA(L)	<0.01	-1.53	0.08
ECN_InferiorFrontal(L)	ECN_MiddleFrontal(R)	0.01	-1.88	0.09
VN_Fusiform(R)	Hippocampus_RA(R)	<0.01	-1.32	0.09
VN_InferiorOccipital(R)	Hippocampus_RA(R)	0.02	-1.93	0.09
Hippocampus_RC(R)	Hippocampus_LC(L)	0.03	-1.35	0.09
DMN_MedialOrbitofrontal(L)	VN_Cuneus(L)	0.02	-2.38	0.10
VN_Fusiform(R)	DAN_Striatum(R)	0.05	-2.03	0.10
SMN_Striatum(R)	ECN_Striatum(R)	<0.01	-2.02	0.10
SN_PosteriorInsula (L)	Hippocampus_LA(L)	0.01	-1.94	0.10
SMN_Postcentral(L)	SMN_Striatum(R)	0.01	-1.60	0.11
DMN_SuperiorMedialFrontal(R)	Hippocampus_RC(R)	<0.01	-1.59	0.12
ECN_Supramarginal(R)	SN_Insula(R)	0.05	-1.48	0.13
SN_MiddleFrontal(L)	ECN_MiddleFrontal(R)	0.02	-1.67	0.15
DMN_MiddleFrontal(L)	Hippocampus_LC(L)	0.03	-1.53	0.25