

Appendix 1 to Suo X, Lei D, Li L, et al. Psychoradiological patterns of small-world properties and a systematic review of connectome studies of patients with 6 major psychiatric disorders. *J Psychiatry Neurosci* 2018.

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Table S1. Studies investigating the functional and structural connectome in schizophrenia.

Study	Participants	Age of patients	Medication	Global signal regression	Modality/ MR Scanner	Node definition	Node number	Edge definition	Network type	Segregation			Integration			Small-worldness alteration	
										C_p	γ	E_{loc}	L_p	λ	E_{glob}		σ
Liu et al. ⁵¹ (2016)	96P vs 91C	33.6±8.6	89 Medication	NA	ASL/3T	AAL	90	Pearson correlation	W	NA	↓	↓	NA	=	=	↓	Randomization
Zhu et al. ⁴⁸ (2016)	26PFS vs 26C	32.5±7.0	Medication	Yes	fMRI/3T	AAL	90	Pearson correlation	B	=	↓	↓	=	=	=	↓	Randomization
	26PFS vs 26C	32.5±7.0	Medication	No	fMRI/3T	AAL	90	Pearson correlation	B	=	↓	↓	=	↓	=	=	Randomization
	26PSS vs 26C	32.7±7.0	Medication	Yes	fMRI/3T	AAL	90	Pearson correlation	B	=	=	=	=	=	=	=	Randomization
	26PSS vs 26C	32.7±7.0	Medication	No	fMRI/3T	AAL	90	Pearson correlation	B	=	=	↓	=	=	=	=	Randomization
Hadley et al. ⁶¹ (2016)	32P vs 32C	33.6±10.4	Medication-free ≥ 10 days	No	fMRI/3T	Functional atlas	278	Wavelet correlation	W	↑	NA	NA	NA	NA	↓	NA	Regularization
Yu et al. ⁶⁰ (2015)	82P vs 82C	38.0±14.0	Medication	NA	fMRI/3T	ICA	48	Pearson correlation	W	↓	NA	NA	NA	NA	↓	NA	Weaker small-worldization
Su et al. ²⁰ (2015)	49P vs 28C	38.4±13.4	Medication	NA	fMRI/3T	AAL	90	Pearson correlation	NA	NA	NA	=	NA	NA	↓	NA	Regularization
Lo et al. ⁵² (2015)	25P vs 29C	36.6±13.8	Medication	NA	fMRI/3T	AAL	585	Wavelet correlation	B	↓	NA	NA	NA	NA	↑	↓	Randomization
Sheffield et al. ⁵⁹ (2015)	46P vs 54C	34.1±11.5	44 Medication, 2 NA	Yes	fMRI/3T	FreeSurfer	264	Pearson correlation	W	NA	NA	↓	NA	NA	↓	NA	Weaker small-worldization
Yu et al. ⁶³ (2013)	23P vs 23C	32±9	Medication	NA	fMRI/3T	ICA	42	Correlation	W	↑	NA	NA	NA	NA	↑	NA	Stronger small-worldization
Ma et al. ¹⁵ (2012)	28P vs 28C	37.8±12.3	Medication	NA	fMRI/3T/task	ICA	60	HOSD	B	↓	NA	NA	↑	NA	NA	↓	Weaker small-worldization
	28P vs 28C	37.8±12.3	Medication	NA	fMRI/3T/rest	ICA	60	HOSD	B	↓	NA	NA	↓	NA	NA	↓	Randomization
Li et al. ⁶² (2012)	21P vs 36C	36.7±9.3	Medication	Yes	fMRI/1.5T	AAL	64	Pearson correlation	B	NA	NA	↑	NA	NA	↓	NA	Regularization
He et al. ¹⁷ (2012)	35P vs 32C	34.3±11.8	Medication	NA	fMRI/1.5T+3T	ICA	105	Partial correlation	B	↓	NA	↓	=	NA	=	NA	Randomization
Yu et al. ⁵⁵ (2011)	24P vs 24C	35.9±12.1	Medication	NA	fMRI/3T	ICA	57	Pearson correlation	W	↓	NA	NA	NA	NA	NA	NA	Randomization
Yu et al. ²¹ (2011)	19P vs 19C	36.5±11.1	Medication	NA	fMRI/3T	ICA	57	Partial correlation	B	↑	=	↑	↑	=	↓	=	Regularization
Yu et al. ⁴⁹ (2011)	20P vs 20C	36.7	Medication	NA	fMRI/3T/left	ICA	95	Partial correlation	B	=	↓	=	↑	=	↓	↓	Weaker small-worldization
	20P vs 20C	36.7	Medication	NA	fMRI/3T/right	ICA	95	Partial correlation	B	=	↓	=	=	=	=	↓	Randomization

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Wang et al. ⁵⁴ (2010)	23P vs 33C	30.0±9.2	Medication	NA	fMRI/3T	AAL	90	Partial correlation	B	NA	NA	↓	NA	NA	=	NA	Randomization
Lynall et al. ⁵³ (2010)	12P vs 15C	32.8±9.2	Medication	NA	fMRI/1.5T	AAL	72	Wavelet correlation	B	↓	NA	NA	NA	NA	↑	↓	Randomization
Alexander-Bloch et al. ⁵⁰ (2010)	13P vs 19C	18±4	NA	NA	fMRI/1.5T	HOA	100	Wavelet correlation	B	↓	NA	↓	NA	NA	↑	=	Randomization
Liu et al. ⁵⁸ (2008)	31P vs 31C	24±6	21 Medication, 10 Drug-naive	NA	fMRI/1.5T	AAL	90	Partial correlation	B	↓	=	↓	↑	=	↓	=	Weaker small-worldization
Alexander-Bloch et al. ⁵⁶ (2013)	19P vs 20C	18.7±4.9	Medication	NA	fMRI/1.5T	HOA	293	Wavelet correlation	NA	↓	NA	NA	NA	NA	↑	NA	Randomization
Fornito et al. ⁶⁴ (2011)	23P vs 25C	20.45 ±4.36	16 Medication, 7 Drug-naive	NA	fMRI/1.5T	AAL	78	Pearson correlation	B	NA	=	=	NA	=	=	=	
Tomasi et al. ⁵⁷ (2014)	69P vs 74C	38±14	NA	NA	fMRI/3T	Voxelwise	3 mm	Pearson correlation	B	↓	NA	NA	↓	NA	NA	=	Randomization
							isotropic										
Zhu et al. ¹⁶ (2016)	35P+AVH vs 50C	31.5±7.7	Medication	Yes	fMRI/3T	AAL	90	Pearson correlation	W	↓	=	↓	↑	=	↓	=	Weaker small-worldization
	41P-AVH vs 50C	32.3±5.7	Medication	Yes	fMRI/3T	AAL	90	Pearson correlation	W	↓	=	↓	↑	=	↓	=	Weaker small-worldization
	35P+AVH vs 50C	31.5±7.7	Medication	-	DTI/3T	AAL	90	Deterministic tractography	W	=	=	=	↑	=	=	=	Regularization
	41P-AVH vs 50C	32.3±5.7	Medication	-	DTI/3T	AAL	90	Deterministic tractography	W	=	=	=	=	=	=	=	
Yeo et al. ⁷² (2016)	80P vs 116C	34.6±10.6	Medication	-	DTI/1.5T&3T	DKA	82	Deterministic tractography	W	=	NA	=	↑	NA	=	NA	Regularization
Sun et al. ⁶⁹ (2016)	31P vs 28C	31.9±9.7	Medication	-	DTI/3T	AAL	90	Deterministic tractography	W	=	NA	=	↑	NA	↓	=	Regularization
Hu et al. ⁷⁹ (2016)	42P vs 38C	24.9±4.8	Drug-naive	-	DTI/3T	AAL	90	Deterministic tractography	W	NA	=	=	NA	=	=	=	
Zhang et al. ⁷⁷ (2015)	30P vs 34C	24.8±6.2	Drug-naive	-	DTI/1.5T	AAL	90	Deterministic tractography	W	NA	NA	↓	↑	NA	↓	=	Weaker small-worldization
Yan et al. ⁷⁶ (2015)	19P vs 24C	23.4±4.4	Medication	-	DTI/3T	AAL	90	Deterministic tractography	W	NA	NA	↓	NA	NA	↓	NA	Weaker small-worldization
Griffa et al. ⁶⁶ (2015)	16P vs 15C	42.0±10.1	14 Medication	-	DSI/3T	DKA	82	Deterministic tractography	W	NA	NA	NA	NA	NA	↓	NA	Regularization
Sun et al. ⁷⁰ (2017)	116P vs 66C	33.0±9.2	Medication	-	DTI/3T	AAL	90	Deterministic tractography	W	=	NA	=	↑	NA	↓	=	Regularization
Chen et al. ⁶⁵ (2015)	24P vs 24C	29.2±6.8	Medication	-	DTI/3T	AAL	90	Deterministic tractography	W	NA	NA	NA	↑	NA	NA	NA	Regularization
Kim et al. ⁶⁷ (2014)	25P vs 36C	31.8±10.7	NA	-	DTI/3T	SUIT	28	Probabilistic tractography	W	=	NA	=	↑	NA	=	↓	Regularization
Collin et al. ⁷⁴ (2014)	40P vs 51C	30.6±6.1	Medication	-	DTI/1.5T	FreeSurfer	68	Deterministic tractography	W	↓	NA	NA	NA	NA	↓	NA	Weaker small-worldization

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Sun et al. ⁷⁵ (2013)	2P vs 2C	33	NA	-	DTI/3T	AAL	90	Deterministic tractography	W	↓	=	NA	↑	=	NA	↓	Weaker small-worldization
Cabral et al. ⁷⁸ (2013)	15P vs 15C	15.97	Medication	-	DTI/1.5T	AAL	90	Probabilistic tractography	W	=	NA	NA	↓	NA	NA	↓	Randomization
Van den Heuvel et al. ⁷¹ (2013)	48P vs 45C	29.4±7.5	45 Medication, 3 NA	-	DTI/3T	FreeSurfer	82	Deterministic tractography	W	=	=	NA	NA	=	↓	NA	Regularization
	41P vs 51C	31.2±5.7	32 Medication, 6 Drug-naïve, 3 NA	-	DTI/3T	FreeSurfer	82	Deterministic tractography	W	↓	=	NA	NA	=	↓	NA	Weaker small-worldization
Ottet et al. ⁶⁸ (2013)	46P vs 48C	15.2±4.5	NA	-	DTI/3T	FreeSurfer	83	Deterministic tractography	B	=	NA	NA	↑	NA	↓	=	Regularization
Wang et al. ¹⁹ (2012)	79P vs 96C	37±11	Medication	-	DTI/1.5T	AAL	90	Deterministic tractography	W	NA	NA	=	NA	NA	↓	NA	Regularization
Zalesky et al. ⁷³ (2011)	74P vs 32C	38±11	67 Medication	-	DTI/1.5T	AAL	82	Deterministic tractography	B	=	NA	NA	=	NA	↓	=	Regularization
Van den Heuvel et al. ⁸⁰ (2010)	40P vs 40C	26.8±5.8	Medication	-	DTI/1.5T	AAL	108	Deterministic tractography	W	NA	=	NA	NA	=	NA	NA	=
Zhang et al. ¹⁸ (2012)	101P vs 101C	36.6±11.5	Medication	-	sMRI/1.5T	AAL	78	Partial correlation	B	↑	NA	NA	↑	NA	NA	NA	Regularization

Abbreviations: P, patients, C, controls, PFS, patients with familial schizophrenia; PSS, patients with sporadic schizophrenia; AVH, auditory verbal hallucinations; ASL, arterial spin labeling; fMRI, functional magnetic resonance imaging; DTI, diffusion tensor imaging; DSI, diffusion spectrum imaging; sMRI, structural magnetic resonance imaging; AAL, automated anatomical labeling; ICA, independent component analysis; HOA, Harvard-Oxford atlas; DKA, Desikan-Killiany Atlas; SUIT, spatially unbiased infratentorial template; HOSD, Higher-order spatial dependence; B, binary; W, weighted; C_p, clustering coefficient; γ , normalized clustering coefficient; E_{loc}, local efficiency; L_p, characteristic path length; λ , normalized characteristic path length; E_{glob}, global efficiency; σ , small-worldness; NA, not available; =, not different.

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Table S2. Studies investigating the connectome in depression.

Study	Participants	Age of patients	Medication	Global signal regression	Modality/ MR Scanner	Node definition	Node number	Edge definition	Network type	Segregation			Integration			Small-worldness alteration	
										C_p	γ	E_{loc}	L_p	λ	E_{glob}		σ
Borchardt et al. ⁸³ (2016)	21MDD vs 22C	37.9±11.4	Medication	No/Yes	fMRI/3T	AAL	95	Pearson correlation	W	↓	=	NA	=	=	=	=	Randomization
He et al. ⁹² (2016)	40MDD vs 33C	35.2±9.3	Drug-naïve and medication-free ≥ 3 weeks	NA	fMRI/3T	ICA	48	Pearson correlation	W	=	NA	=	=	NA	=	NA	=
Manelis et al. ⁸⁴ (2016)	39MDD vs 36C	31.5±8.0	Medication	NA	fMRI/3T/	ICA	21	IMaGES algorithm	NA	NA	NA	NA	↑	NA	NA	NA	Regularization
Borchardt et al. ⁸⁵ (2015)	12MDD vs 12C	42.8±10.6	Drug-naïve	No	fMRI/1.5T	AAL	102	Pearson correlation	W	=	NA	NA	↑	NA	=	=	Regularization
Ye et al. ⁸⁷ (2015)	42MDD vs 42C	42.1±12.3	Drug-naïve	Yes	fMRI/3T	AAL	90	Pearson correlation	B	NA	NA	↑	NA	NA	=	NA	Regularization
Luo et al. ⁸⁹ (2015)	50MDD vs 50C	41.6±12.2	17 Medication	No	fMRI/3T	HOA	112	Pearson correlation	W	↓	NA	NA	↑	NA	↓	=	Weaker small-worldization
Peng et al. ⁹³ (2014)	16MDD vs 16C	34.4±6.7	Drug-naïve	No	fMRI/3T	AAL	90	Pearson correlation	B	NA	=	=	NA	=	=	=	=
Park et al. ⁸⁸ (2014)	13MDD vs 12C	35.3±9.8	12 Medication	NA	fMRI/1.5T	AAL	73	Partial correlation	B	NA	NA	↑	NA	NA	↓	NA	Regularization
Meng et al. ⁸⁶ (2014)	25MDD vs 25C	48.8±14.8	24 Medication	NA	fMRI/3T	HOA	112	Wavelet correlation	B	=	NA	NA	↑	NA	↓	=	Regularization
Lord et al. ⁴⁶ (2012)	21MDD vs 22C	37.9±11.4	Medication	Yes	fMRI/3T	AAL	95	Pearson correlation	W	=	NA	NA	=	NA	NA	=	=
Zhang et al. ¹³ (2011)	30MDD vs 63C	36.1±12.3	Drug-naïve	NA	fMRI/3T	AAL	90	Partial correlation	B	=	=	=	↓	↓	↑	=	Randomization
Jin et al. ⁹⁴ (2011)	16MDD vs 16C	17.1±1.3	Drug-naïve	NA	fMRI/1.5T	AAL	90	Partial correlation	W	NA	NA	NA	NA	NA	NA	↓	UD
Wang et al. ⁹⁰ (2016)	33LLD vs 31C	68.2±4.5	Medication-free ≥ 3 months	Yes	fMRI/1.5T	AAL	90	Pearson correlation	B	=	=	↓	↑	=	↓	=	Weaker small-worldization
Li et al. ⁸¹ (2015)	23LLD vs 25C	67.8±5.9	21 Medication, 2 Drug-naïve	Yes	fMRI/3T	Functional	264	Pearson correlation	B	=	NA	↓	=	NA	=	↓	Randomization
	13LLD-aMCI vs 25C	71.6±6.5	11 Medication, 2 Drug-naïve	Yes	fMRI/3T	Functional	264	Pearson correlation	B	=	NA	↓	↑	NA	↓	↓	Weaker small-worldization
Bohr et al. ⁹¹ (2013)	14LLD vs 16C	76.6±7.7	Medication	Yes	fMRI/3T	HOA	110	Pearson correlation	B	=	=	NA	=	=	NA	=	=
Guo et al. ⁸³ (2014)	36TD vs 27C	28.4±9.7	Drug-naïve	NA	fMRI/3T	AAL	90	Partial correlation	B	=	NA	=	↓	NA	↑	NA	Randomization
Wang et al. ⁹⁸ (2016)	76MDD vs 116C	36.2±11.3	Drug-naïve	-	sMRI/3T	DKA	68	Pearson correlation	B	=	↓	↓	=	=	=	↓	Randomization

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Singh et al. ¹⁰⁰ (2013)	93MDD vs 151C	38.6±11.7	46 Medication, 45 Drug-naive	-	sMRI/3T	AAL	90	Pearson correlation	B	NA	↓	NA	NA	↑	NA	↓	Weaker small-worldization
Mak et al. ⁹⁵ (2016)	33LLD vs 25C	73.6±5.2	Medication	-	sMRI/3T	DKA	68	Pearson correlation	B	↑	=	=	NA	=	=	=	Regularization
Ajilore et al. ⁹⁷ (2014)	53LLD vs 73C	69.4±8.5	Drug-naive and medication-free	-	sMRI/3T	FreeSurfer	82	Pearson correlation	B	NA	↑	NA	NA	↑	↓	↓	Regularization
			≥ 2 weeks														
Lim et al. ¹⁰⁵ (2013)	37LLD vs 40C	71.8±4.8	2 Medication	-	sMRI/3T	AAL	90	Pearson correlation	B	NA	=	NA	NA	=	NA	=	=
Chen et al. ¹⁰¹ (2016)	27MDD vs 40C	33.0±8.8	NA	-	DTI/3T	AAL	90	Deterministic tractography	W	↓	=	↓	=	=	↓	=	Weaker small-worldization
Chen et al. ⁴⁷ (2016)	16MDD vs 30C	44.8±2.2	Medication	-	DTI/1.5T	AAL	90	GQI tractography	B	↑	NA	↑	↑	NA	NA	=	Regularization
Sacchet et al. ¹⁰⁸ (2015)	14MDD vs 18C	35.6±8.4	3 Medication	-	DTI/3T	DKA	68	Probabilistic tractography	B	NA	NA	NA	=	NA	=	=	=
Qin et al. ¹⁰⁶ (2014)	29MDD vs 30C	39.0±10.0	NA	-	DTI/1.5T	AAL	396	Deterministic tractography	W	=	NA	=	NA	NA	=	NA	=
Korgaonkar et al. ¹¹⁰ (2014)	95MDD vs 102C	33.8±13.1	Drug-naive and medication-free	-	DTI/3T	DKA	84	Probabilistic tractography	W	=	NA	NA	=	NA	=	NA	=
			≥ 5 half-lives														
Sacchet et al. ¹⁰⁷ (2014)	14MDD vs 18C	NA	NA	-	DTI/3T	FreeSurfer	68	Probabilistic tractography	B	NA	NA	NA	=	NA	=	=	=
Ajilore et al. ¹⁰³ (2014)	43MDD vs 40C	57.4±11.9	Drug-naive and medication ≥ 2 weeks	-	DTI/3T	FreeSurfer	87	Deterministic tractography	NA	NA	NA	=	NA	NA	=	NA	=
Tymofiyeva et al. ¹⁰⁹ (2017)	57MDD vs 41C	16.2±1.3	10 Medication, 41 Drug-naive	-	DTI/3T	AAL	90	Deterministic tractography	W	NA	=	NA	NA	=	NA	=	=
Li et al. ⁹⁹ (2017)	24LLD vs 24C	69.7±7.0	11 Medication	-	DTI/3T	AAL	90	Probabilistic tractography	W	↓	NA	=	=	NA	=	NA	Randomization
Charlton et al. ¹⁰⁴ (2015)	28LLD vs 48C	65.3±7.2	Medication-free ≥ 2 weeks	-	DTI/3T	FreeSurfer	87	Deterministic tractography	NA	NA	=	NA	NA	=	=	NA	=
Bai et al. ⁹⁶ (2012)	35LLD vs 30C	67.9±4.5	Medication-free ≥ 3 months	-	DTI/1.5T	AAL	90	Deterministic tractography	W	=	=	=	↑	=	↓	=	Regularization
Long et al. ¹⁰² (2015)	22TD vs 19C	28.1±9.9	Drug-naive	-	DTI/1.5T	AAL	90	Deterministic tractography	B	=	↓	↑	↓	↓	↑	↓	Stronger small-worldization

Abbreviations: MDD, major depressive disorder; LLD, late-life depression; aMCI, amnesic mild cognitive impairment; TD, treatment-naive depression; C, controls, fMRI, functional magnetic resonance imaging; sMRI, structural magnetic resonance imaging; DTI, diffusion tensor imaging; AAL, automated anatomical labeling; ICA, independent component analysis; HOA, Harvard-Oxford atlas; DKA, Desikan-Killiany Atlas; GQI, Generalized q-sampling imaging; B, binary; W, weighted; C_p, clustering coefficient; γ, normalized clustering coefficient; E_{loc}, local efficiency; L_p, characteristic path length; λ, normalized characteristic path length; E_{glob}, global efficiency; σ, small-worldness; NA, not available; =, not different; UD, undefined.

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Table S3. Studies investigating the connectome in ADHD, BD, OCD and PTSD.

Study	Participants	Age of patients	Medication	Global signal regression	Modality/ MR Scanner	Node definition	Node number	Edge definition	Network type	Segregation			Integration			Small-worldness alteration	
										C_p	γ	E_{loc}	L_p	λ	E_{glob}		σ
ADHD																	
Wang et al. ¹¹¹ (2009)	19P-I+C vs 20C	13.6±1.5	NA	Yes	fMRI/3T	AAL	90	Pearson correlation	B	NA	NA	↑	NA	NA	=	NA	Regularization
Xia et al. ¹¹² (2014)	22P-C vs 22C	11.6±2.9	9 Medication-free for 48 hours	Yes	fMRI/3T	AAL	68	Pearson correlation	B	NA	NA	↓	NA	NA	=	NA	Randomization
Cocchi et al. ¹¹³ (2012)	16P vs 15C	23.8±1.0	Drug-naïve	NA	fMRI/3T	AAL	90	Pearson correlation	B	=	=	NA	=	=	NA	=	=
Cao et al. ¹¹⁴ (2013)	30P-I+C vs 30C	10.3±1.9	Drug-naïve	-	DTI/3T	AAL	90	Probabilistic tractography	W	=	=	=	↑	↑	↓	NA	Regularization
Sidlauskaitė et al. ¹¹⁵ (2015)	18P-I+C vs 21C	30.1±9.8	9 Medication-free ≥ 24 hours	-	DTI/3T	AAL	116	Deterministic tractography	B	=	=	NA	NA	=	=	=	=
BD																	
Manelis et al. ⁸⁴ (2016)	31P-I vs 36C	33.4±8.4	Medication	NA	fMRI/3T	ICA	21	IMaGES algorithm	NA	NA	NA	NA	↑	NA	NA	NA	Regularization
He et al. ⁹² (2016)	13P-I+II vs 33C	35.2±10.3	Drug-naïve and Medication-free ≥ 3 weeks	NA	fMRI/3T	ICA	48	Pearson correlation	W	=	NA	=	=	NA	=	NA	=
Spielberg et al. ¹¹⁶ (2016)	60P-I+II vs 30C	33.0±10.0	Medication-free ≥ 2 weeks	NA	fMRI/3T	Craddock atlas	181	Pearson correlation	W	↑	NA	NA	NA	NA	↓	NA	Regularization
Collin et al. ¹¹⁷ (2016)	216P-I vs 144C	47.4±12.1	93 Medication, 109 Drug-naïve 14 NA	-	DTI/3T	DKA	219	Deterministic tractography	W	NA	NA	NA	NA	NA	↓	NA	Regularization
Leow et al. ¹¹⁸ (2013)	25P-I vs 24C	41.6±12.7	23 Medication, 2 Drug-naïve	-	DTI/3T	FreeSurfer	87	Deterministic tractography	W	↓	NA	NA	↑	NA	↓	NA	Weaker small-worldization
OCD																	
Zhang et al. ¹² (2011)	18P vs 16C	23.3±5.0	13 Medication	Yes	fMRI/3T	AAL	90	Pearson correlation	B	NA	↑	NA	NA	=	NA	NA	Regularization
Shin et al. ¹¹⁹ (2014)	25P vs 23C	26.3±6.2	Drug-naïve	Yes	fMRI/3T	Functional ROI	142	Pearson correlation	W	NA	↓	↓	NA	=	=	↓	Randomization
Jung et al. ¹²⁰ (2017)	61P vs 61C	26.1±7.2	Drug-naïve	NA	fMRI/3T	AAL	17	Pearson correlation	B	NA	↓	NA	NA	↓	NA	↓	Randomization
Armstrong et al. ¹²¹ (2016)	21P vs 20C	12.7±2.8	18 Drug-naïve, 2 Medication	NA	fMRI/3T	HOA	100	Pearson correlation	B	NA	NA	NA	NA	NA	=	↓	UD

Appendix 1 to Suo X, Lei D, Li L, et al. Psychoradiological patterns of small-world properties and a systematic review of connectome studies of patients with 6 major psychiatric disorders. *J Psychiatry Neurosci* 2018.

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			1 Medication-free															
Zhong et al. ¹²² (2014)	26P vs 39C	28.8±7.6	Drug-naïve	-	DTI/3T	AAL	90	Deterministic tractography	W	=	↑	=	↑	↑	↓	=	Regularization	
Reess et al. ¹²³ (2016)	41P vs 42C	32.5±10.0	29 Medication, 12 Drug-naïve and medication-free ≥ 3 weeks	-	DTI/3T	Freesurfer	83	Deterministic tractography	W	NA	=	NA	NA	=	NA	NA	=	
Kim et al. ¹²⁴ (2013)	32P vs 35C	24.8±6.4	23 Drug-naïve, 9 Medication-free for ≥ 4 weeks	-	sMRI/1.5T	Destrieux atlas	148	Partial correlation	B	NA	NA	=	NA	NA	=	NA	=	
PTSD																		
Lei et al. ¹¹ (2015)	76P vs 76C	42.1±10.1	Drug-naïve	Yes	fMRI/3T	AAL	90	Partial correlation	B	↑	=	↑	↓	=	↑	=	Stronger small-worldization	
Suo et al. ¹²⁵ (2015)	24P vs 24C	13.0±1.8	Drug-naïve	Yes	fMRI/3T	AAL	90	Partial correlation	B	↑	=	↑	=	↑	=	=	Regularization	
Long et al. ¹²⁶ (2013)	17P vs 15C	30.8±8.7	Medication-free ≥ 2 months	-	DTI/3T	AAL	90	Deterministic tractography	W	=	=	=	↓	↓	=	=	Randomization	
Suo et al. ¹²⁷ (2017)	24P vs 23C	13.0±1.7	Drug-naïve	-	DTI/3T	AAL	90	Deterministic tractography	B	=	=	↓	↑	=	↓	=	Weaker small-worldization	
Mueller et al. ¹²⁸ (2015)	40P vs 45C	32.7±7.7	9 Medication	-	sMRI/3T	FreeSurfer	80	Pearson correlation	B	=	NA	NA	NA	NA	=	↓	UD	

Abbreviations: ADHD, attention-deficit/hyperactivity disorder; P-I, patients with ADHD inattentive type; P-C, patients with ADHD combined type; P, patients; C, controls; BD, bipolar disorder; P-I, patients with BD type I; P-II, patients with BD type II; OCD, obsessive-compulsive disorder; PTSD, posttraumatic stress disorder; fMRI, functional magnetic resonance imaging; DTI, diffusion tensor imaging; sMRI, structural magnetic resonance; AAL, automated anatomical labeling; ICA, independent component analysis; DKA, Desikan-Killiany Atlas; ROI, regions of interest; HOA, Harvard-Oxford atlas; B, binary; W, weighted; C_p, clustering coefficient; γ , normalized clustering coefficient; E_{loc}, local efficiency; L_p, characteristic path length; λ , normalized characteristic path length; E_{glob}, global efficiency; σ , small-worldness; NA, not available; =, not different; UD, undefined.