Novel metrics and application of nearest-neighbor feature selection for comparing resting-state fMRI brain atlases: Supplementary tables

**Table S1.** Standardized beta coefficients, P values, and brain regions for unimportant Power ROIs.

		D 77.1	D 1 D 1	<u> </u>
ROI	$eta_a$	P Value	Brain Region	Func. Network
212	3.6023	0.0535	Left Anterior Cingulate	Anterior Salience
172	3.5966	0.0606	Left Middle Occipital Gyrus	High Visual
124	3.5589	0.0625	Left Parahippocampal Gyrus	Ventral DMN
61	3.5734	0.0633	Right Insula	Anterior Salience
237	3.5403	0.0652	Left Superior Temporal Gyrus	Language
117	3.5354	0.0673	Left Middle Temporal Gyrus	Language
273	3.4952	0.0767	Left Ventral Hippocampus	NA
126	3.4989	0.0785	Left Fusiform Gyrus	Ventral DMN
274	3.4890	0.0794	Right Ventral Hippocampus	NA
230	3.4811	0.0829	Right Lentiform Nucleus	Basal Ganglia
84	3.4578	0.0880	Left Middle Temporal Gyrus	LECN
81	3.4486	0.0940	Left Superior Temporal Gyrus	NA
182	3.3842	0.1139	Left Superior Frontal Gyrus	NA
71	3.4143	0.1155	Right Precentral Gyrus	Auditory
238	3.3149	0.1458	Right Superior Temporal Gyrus	Language
253	3.2820	0.1617	Left Fusiform Gyrus	LECN
125	3.2550	0.1775	Right Parahippocampal Gyrus	Ventral DMN
111	3.1923	0.2322	Left Anterior Cingulate	Dorsal DMN
132	3.1608	0.2449	Left Inferior Frontal Gyrus	NA
40	3.1123	0.2917	Right Medial Frontal Gyrus	Sensorimotor
3	3.0394	0.3632	Right Middle Frontal Gyrus	NA
55	3.0397	0.3683	Left Precentral Gyrus	Auditory
139	3.0060	0.4020	Right Inferior Frontal Gyrus	Language
27	2.9545	0.4720	Left Precentral Gyrus	Sensorimotor
203	2.9216	0.5591	Right Paracentral Lobule	Ventral DMN
258	2.9390	0.5871	Right Superior Parietal Lobule	Visuospatial
247	2.9551	0.6249	Right Uncus	NA
8	2.8038	0.7502	Left Parahippocampal Gyrus	Ventral DMN
68	2.8084	0.7662	Left Inferior Parietal Lobule	Post Salience
170	2.7764	0.8248	Right Cuneus	Primary Visual
206	2.7434	0.9055	Right Middle Frontal Gyrus	Anterior Salience
30	2.7486	0.9094	Left Postcentral Gyrus	Visuospatial
232	2.7468	1.0000	Left Lentiform Nucleus	Post Salience
60	2.7460 $2.7252$	1.0000	Right Insula	Anterior Salience
243	2.7024	1.0000	Left Declive	Sensorimotor
$245 \\ 215$	2.6516	1.0000	Left Anterior Cingulate	Anterior Salience
$\frac{213}{177}$	2.6504	1.0000	Left Inferior Parietal Lobule	LECN
241	2.6313	1.0000	Right Inferior Frontal Gyrus	Language
$\frac{241}{263}$	2.6048	1.0000	Left Superior Parietal Lobule	Ventral DMN
203 113	2.5824	1.0000	Left Anterior Cingulate	Dorsal DMN
$\frac{115}{34}$	2.5324 $2.5346$	1.0000	Left Postcentral Gyrus	Sensorimotor
$\frac{54}{105}$	2.5340 $2.5266$	1.0000		Dorsal DMN
			Right Medial Frontal Gyrus	
92 75	2.5078	1.0000	Right Cingulate Gyrus	Dorsal DMN
	2.4484	1.0000	Right Medial Frontal Gyrus	Dorsal DMN
			Conti	nued on next page

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	Table S1 – continued from previous page				
ROI	$eta_a$	P Value	Brain Region	Func. Network	
23	2.4337	1.0000	Left Precentral Gyrus	Sensorimotor	
155	2.4162	1.0000	Left Cuneus	NA	
275	2.3878	1.0000	Locus Coeruleus	NA	
58	2.3726	1.0000	Left Superior Temporal Gyrus	Anterior Salience	
267	2.3697	1.0000	Left Subgenual Anterior Cingulate Cortex	NA	
103	2.3494	1.0000	Left Superior Frontal Gyrus	Dorsal DMN	
159	2.3372	1.0000	Right Cuneus	Precuneus	
19	2.3316	1.0000	Right Precentral Gyrus	Sensorimotor	
45	2.3155	1.0000	Left Precentral Gyrus	Auditory	
66	2.3139	1.0000	Left Superior Temporal Gyrus	Auditory	
219	2.3104	1.0000	Right Superior Frontal Gyrus	Anterior Salience	
15	2.2522	1.0000	Left Paracentral Lobule	Dorsal DMN	
277	2.2459	1.0000	Raphe	NA	
26	2.2309	1.0000	Right Postcentral Gyrus	Visuospatial	
161	2.2291	1.0000	Right Middle Occipital Gyrus	High Visual	
88	2.2240	1.0000	Left Cingulate Gyrus	Dorsal DMN	
116	2.2175	1.0000	Right Inferior Temporal Gyrus	NA	
33	2.2172	1.0000	Left Postcentral Gyrus	Visuospatial	
269	2.1930	1.0000	Left Caudate Head	NĀ	
112	2.1833	1.0000	Left Medial Frontal Gyrus	LECN	
93	2.1765	1.0000	Right Precuneus	Precuneus	
218	2.1647	1.0000	Right Middle Frontal Gyrus	RECN	
226	2.1603	1.0000	Left Thalamus	Sensorimotor	
156	2.1562	1.0000	Right Precuneus	Precuneus	
202	2.1430	1.0000	Left Medial Frontal Gyrus	Anterior Salience	
146	2.1297	1.0000	Left Cuneus	Primary Visual	
6	2.1291	1.0000	Left Parahippocampal Gyrus	Dorsal DMN	
122	2.1142	1.0000	Right Anterior Cingulate	Anterior Salience	
240	2.1088	1.0000	Right Superior Temporal Gyrus	Language	
79	2.0931	1.0000	Left Middle Temporal Gyrus	Language	
28	2.0911	1.0000	Right Precentral Gyrus	Sensorimotor	
271	2.0707	1.0000	Left Amygdala	NA	
229	2.0693	1.0000	Right Lentiform Nucleus	Post Salience	
183	2.0411	1.0000	Left Declive	RECN	
91	2.0338	1.0000	Left Posterior Cingulate	Dorsal DMN	
118	2.0333	1.0000	Left Middle Temporal Gyrus	Language	
56	2.0278	1.0000	Right Superior Temporal Gyrus	Auditory	
115	1.9941	1.0000	Left Medial Frontal Gyrus	Dorsal DMN	
196	1.9492	1.0000	Right Precentral Gyrus	RECN	
200	1.9181	1.0000	Right Middle Frontal Gyrus	RECN	
18	1.9175	1.0000	Left Paracentral Lobule	Sensorimotor	
78	1.9136	1.0000	Left Superior Frontal Gyrus	Dorsal DMN	
1	1.8984	1.0000	Left Lingual Gyrus	High Visual	
96	1.8930	1.0000	Right Angular Gyrus	RECN	
51	1.8919	1.0000	Left Cingulate Gyrus	NA	
63	1.8780	1.0000	Right Superior Temporal Gyrus	Auditory	
123	1.8759	1.0000	Right Middle Temporal Gyrus	Language	
9	1.8618	1.0000	Right Middle Temporal Gyrus	NA	
13	1.8467	1.0000	Left Precuneus	Ventral DMN	

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ROI	$oldsymbol{eta_a}$	P Value	Brain Region	Func. Network
136	1.8222	1.0000	Right Precuneus	Ventral DMN
57	1.8110	1.0000	Left Claustrum	Anterior Salience
86	1.8074	1.0000	Left Angular Gyrus	LECN
239	1.7558	1.0000	Right Middle Temporal Gyrus	Language
12	1.7532	1.0000	Right Middle Frontal Gyrus	RECN
95	1.7307	1.0000	Right Posterior Cingulate	Ventral DMN
147	1.7274	1.0000	Left Middle Occipital Gyrus	Ventral DMN
53	1.6666	1.0000	Right Superior Frontal Gyrus	Anterior Salience
205	1.6269	1.0000	Right Middle Frontal Gyrus	Sensorimotor
244	1.5834	1.0000	Left Culmen	Anterior Salience
164	1.5655	1.0000	Left Middle Occipital Gyrus	High Visual
69	1.5490	1.0000	Left Postcentral Gyrus	Auditory
195	1.5171	1.0000	Left Inferior Parietal Lobule	LECN
39	1.5090	1.0000	Right Medial Frontal Gyrus	Sensorimotor
151	1.4992	1.0000	Left Lingual Gyrus	High Visual
72	1.4699	1.0000	Right Postcentral Gyrus	Post Salience
254	1.4600	1.0000	Right Fusiform Gyrus	Visuospatial
101	1.4562	1.0000	Right Superior Frontal Gyrus	Dorsal DMN
37	1.4498	1.0000	Left Precentral Gyrus	Sensorimotor
176	1.4458	1.0000	Left Inferior Frontal Gyrus	Visuospatial
100	1.4372	1.0000	Left Middle Frontal Gyrus	LECN
248	1.4160	1.0000	Left Uncus	NA
109	1.3884	1.0000	Left Medial Frontal Gyrus	Dorsal DMN
233	1.3642	1.0000	Right Lentiform Nucleus	Basal Ganglia
166	1.3578	1.0000	Left Precuneus	Precuneus
197	1.3296	1.0000	Left Middle Frontal Gyrus	LECN
178	1.3268	1.0000	Left Middle Frontal Gyrus	Ventral DMN
31	1.3232	1.0000	Right Medial Frontal Gyrus	Sensorimotor
17	1.3037	1.0000	Left Medial Frontal Gyrus	Sensorimotor
216	1.2860	1.0000	Right Cingulate Gyrus	Anterior Salience
47	1.2791	1.0000	Left Superior Frontal Gyrus	Anterior Salience
140	1.2758	1.0000	Right Lingual Gyrus	High Visual
49	1.2682	1.0000	Right Middle Frontal Gyrus	Sensorimotor
234	1.2509	1.0000	Right Thalamus	Basal Ganglia
21	1.2488	1.0000	Right Precentral Gyrus	Sensorimotor
168	1.2486	1.0000	Left Inferior Occipital Gyrus	High Visual
102	1.2456	1.0000	Right Superior Frontal Gyrus	Dorsal DMN
224	1.2401	1.0000	Left Thalamus	Post Salience
199	1.2399	1.0000	Right Inferior Parietal Lobule	Visuospatial
46	1.2214	1.0000	Right Precentral Gyrus	NA
119	1.2123	1.0000	Right Middle Temporal Gyrus	Language
104	1.1808	1.0000	Left Superior Frontal Gyrus	Dorsal DMN
64	1.1683	1.0000	Left Superior Temporal Gyrus	Auditory
173	1.1652	1.0000	Right Middle Occipital Gyrus	High Visual
148	1.1633	1.0000	Right Lingual Gyrus	Primary Visual
191	1.1501	1.0000	Left Superior Parietal Lobule	Visuospatial
150	1.1350	1.0000	Right Parahippocampal Gyrus	NĀ
114	1.1259	1.0000	Left Superior Frontal Gyrus	Dorsal DMN
179	1.1229	1.0000	Right Middle Temporal Gyrus	Visuospatial

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			e S1 – continued from previous page	
ROI	$oldsymbol{eta_a}$	P Value	Brain Region	Func. Network
133	1.1225	1.0000	Left Cingulate Gyrus	Precuneus
130	1.1197	1.0000	Right Supramarginal Gyrus	Language
20	1.1135	1.0000	Left Postcentral Gyrus	Visuospatial
249	1.0966	1.0000	Right Inferior Temporal Gyrus	NA
41	1.0851	1.0000	Right Precentral Gyrus	Sensorimotor
259	1.0836	1.0000	Left Inferior Parietal Lobule	Visuospatial
210	1.0756	1.0000	Right Inferior Frontal Gyrus	Anterior Salience
246	1.0682	1.0000	Right Declive	Sensorimotor
149	1.0471	1.0000	Left Cuneus	High Visual
245	0.9755	1.0000	Right Declive	Sensorimotor
25	0.9744	1.0000	Right Postcentral Gyrus	Visuospatial
97	0.9599	1.0000	Right Middle Frontal Gyrus	RECN
185	0.9535	1.0000	Right Uvula	LECN
231	0.9422	1.0000	Right Lentiform Nucleus	Basal Ganglia
228	0.9394	1.0000	Left Lentiform Nucleus	Basal Ganglia
131	0.9171	1.0000	Left Middle Temporal Gyrus	Language
54	0.9040	1.0000	Right Medial Frontal Gyrus	Anterior Salience
80	0.8990	1.0000	Right Middle Temporal Gyrus	Ventral DMN
153	0.8865	1.0000	Right Inferior Occipital Gyrus	High Visual
22	0.8672	1.0000	Right Postcentral Gyrus	Post Salience
137	0.8412	1.0000	Left Inferior Frontal Gyrus	Language
24	0.8382	1.0000	Let Precentral Gyrus	Sensorimotor
144	0.8179	1.0000	Right Middle Occipital Gyrus	Ventral DMN
7	0.8144	1.0000	Right Culmen	Ventral DMN
198	0.7568	1.0000	Left Middle Frontal Gyrus	LECN
251	0.7534	1.0000	Right Precuneus	Ventral DMN
87	0.7327	1.0000	Left Superior Parietal Lobule	LECN
193	0.7290	1.0000	Right Superior Frontal Gyrus	RECN
67	0.7242	1.0000	Right Insula	Post Salience
163	0.7199	1.0000	Right Precuneus	Precuneus
98	0.7142	1.0000	Left Superior Frontal Gyrus	Dorsal DMN
158	0.7046	1.0000	Right Lingual Gyrus	High Visual
134	0.6949	1.0000	Left Precuneus	Precuneus
214	0.6233	1.0000	Left Superior Frontal Gyrus	Anterior Salience
207	0.5748	1.0000	Right Inferior Frontal Gyrus	Basal Ganglia
276	0.5711	1.0000	Ventral Tegmental Area	NA
260	0.5651	1.0000	Left Precuneus	Visuospatial
44	0.5585	1.0000	Right Precentral Gyrus	Sensorimotor
221	0.5427	1.0000	Right Cingulate Gyrus	Precuneus
188	0.5291	1.0000	Left Middle Frontal Gyrus	Post Salience
142	0.5197	1.0000	Left Lingual Gyrus	High Visual
62	0.4813	1.0000	Right Superior Temporal Gyrus	Post Salience
65	0.4798	1.0000	Left Postcentral Gyrus	Auditory
268	0.4777	1.0000	Right Subgenual Anterior Cingulate Cortex	NA
48	0.4677	1.0000	Right Inferior Parietal Lobule	Post Salience
$\frac{46}{265}$	0.4676	1.0000	Left Nucleus Accumbens	NA
$\frac{203}{223}$	0.4570 $0.4582$	1.0000	Left Thalamus	Dorsal DMN
$\frac{223}{262}$	0.4562 $0.4542$	1.0000	Left Halamus Left Middle Occipital Gyrus	Visuospatial
143	0.4342 $0.4420$	1.0000	Right Parahippocampal Gyrus	Sensorimotor
140	0.7740	1.0000	1018110 1 aramppocampar dyrus	DCHBOTHHOUT

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	Table S1 – continued from previous page					
ROI	$\boldsymbol{\beta_a}$	P Value	Brain Region	Func. Network		
29	0.4320	1.0000	Right Precentral Gyrus	Sensorimotor		
211	0.4226	1.0000	Right Inferior Frontal Gyrus	Anterior Salience		
14	0.4026	1.0000	Left Cingulate Gyrus	NA		
157	0.4001	1.0000	Right Cuneus	High Visual		
99	0.3569	1.0000	Left Superior Frontal Gyrus	LECN		
135	0.3549	1.0000	Right Precuneus	Precuneus		
250	0.3270	1.0000	Left Inferior Temporal Gyrus	NA		
189	0.3269	1.0000	Right Middle Frontal Gyrus	RECN		
154	0.3069	1.0000	Left Middle Occipital Gyrus	High Visual		
90	0.2713	1.0000	Left Posterior Cingulate	Ventral DMN		
120	0.2665	1.0000	Left Middle Temporal Gyrus	LECN		
194	0.2315	1.0000	Right Inferior Parietal Lobule	RECN		
121	0.2139	1.0000	Right Superior Frontal Gyrus	Dorsal DMN		
252	0.0793	1.0000	Left Middle Temporal Gyrus	Language		
52	0.0777	1.0000	Right Insula	Post Salience		
2	0.0686	1.0000	Right Inferior Occipital Gyrus	High Visual		
42	0.0490	1.0000	Left Precentral Gyrus	Sensorimotor		
272	0.0347	1.0000	Right Amygdala	NA		
70	0.0320	1.0000	Left Precentral Gyrus	Auditory		
141	0.0114	1.0000	Right Inferior Occipital Gyrus	High Visual		
107	-0.0002	1.0000	Left Medial Frontal Gyrus	Dorsal DMN		
266	-0.0062	1.0000	Right Nucleus Accumbens	NA		
171	-0.0270	1.0000	Left Middle Occipital Gyrus	High Visual		
236	-0.0416	1.0000	Left Superior Temporal Gyrus	Language		
74	-0.0749	1.0000	Left Middle Temporal Gyrus	Ventral DMN		
167	-0.1095	1.0000	Left Cuneus	Primary Visual		
11	-0.1156	1.0000	Right Middle Temporal Gyrus	Language		
201	-0.1267	1.0000	Left Middle Frontal Gyrus	LECN		
225	-0.1518	1.0000	Right Thalamus	Post Salience		
108	-0.1725	1.0000	Right Medial Frontal Gyrus	Dorsal DMN		
256	-0.1733	1.0000	Right Precuneus	Visuospatial		
165	-0.1927	1.0000	Right Lingual Gyrus	High Visual		
152	-0.2419	1.0000	Left Cuneus	Primary Visual		
208	-0.2872	1.0000	Left Insula	Anterior Salience		
227	-0.3108	1.0000	Left Lentiform Nucleus	Basal Ganglia		
127	-0.4540	1.0000	Right Uvula	Visuospatial		
209	-0.4836	1.0000	Right Insula	Anterior Salience		
106	-0.5001	1.0000	Right Medial Frontal Gyrus	Dorsal DMN		
94	-0.5411	1.0000	Left Cingulate Gyrus	Ventral DMN		
257	-0.5804	1.0000	Right Middle Temporal Gyrus	NA		
138	-0.5855	1.0000	Left Superior Frontal Gyrus	Anterior Salience		
242	-0.6570	1.0000	Left Inferior Frontal Gyrus	Language		
175	-0.6866	1.0000	Right Middle Frontal Gyrus	RECN		
10	-0.7101	1.0000	Right Fusiform Gyrus	NA		
255	-0.7373	1.0000	Right Postcentral Gyrus	Visuospatial		
43	-0.7673	1.0000	Right Insula	NA		
16	-0.8002	1.0000	Right Cingulate Gyrus	Anterior Salience		
184	-0.8130	1.0000	Right Uvula	NA		
235	-0.8214	1.0000	Right Inferior Parietal Lobule	Language		
			<u>~</u>			

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ROI	$oldsymbol{eta_a}$	P Value	Brain Region	Func. Network
38	-0.8900	1.0000	Left Postcentral Gyrus	Post Salience
220	-0.9006	1.0000	Left Middle Frontal Gyrus	Anterior Salience
174	-0.9401	1.0000	Left Middle Frontal Gyrus	Visuospatial
186	-0.9590	1.0000	Right Middle Frontal Gyrus	Visuospatial
32	-0.9707	1.0000	Right Postcentral Gyrus	Post Salience
187	-0.9828	1.0000	Left Inferior Frontal Gyrus	Visuospatial
162	-1.0083	1.0000	Right Cuneus	High Visual
222	-1.0443	1.0000	Right Thalamus	Sensorimotor
50	-1.1480	1.0000	Left Superior Frontal Gyrus	Sensorimotor
264	-1.1706	1.0000	Right Middle Frontal Gyrus	Visuospatial
217	-1.2320	1.0000	Right Anterior Cingulate	Anterior Salience
261	-1.2650	1.0000	Left Middle Frontal Gyrus	Visuospatial
169	-1.2891	1.0000	Right Middle Occipital Gyrus	High Visual
190	-1.2978	1.0000	Right Inferior Parietal Lobule	RECN

Table S2. Standardized beta coefficients, P values, and brain regions for unimportant Shen ROIs.

ROI	$oldsymbol{eta_a}$	P Value	Brain Region
64	3.5254	0.0592	Right Middle Frontal Gyrus, Right Superior Frontal Gyrus
198	3.4572	0.0765	Left Inferior Temporal Gyrus, Left Middle Temporal Gyrus
82	3.4501	0.0784	Right Insula, Right Superior Temporal Gyrus, Right Lentiform
			Nucleus
91	3.4444	0.0801	Right Inferior Frontal Gyrus, Right Insula
166	3.3985	0.0948	Left Postcentral Gyrus
30	3.3799	0.1014	Locus Coeruleus
90	3.2923	0.1389	Right Fusiform Gyrus, Right Middle Temporal Gyrus
116	3.2884	0.1433	Right Middle Frontal Gyrus
73	3.2427	0.1654	Right Uvula, Right Declive, Right Lingual Gyrus
131	3.2126	0.1867	Right Medial Frontal Gyrus
227	3.1353	0.2478	Left Cuneus
81	3.0862	0.2908	Right Medial Frontal Gyrus
109	3.0554	0.3137	Right Fusiform Gyrus
124	3.0544	0.3176	Right Middle Frontal Gyrus, Right Precentral Gyrus
264	3.0213	0.3513	Left Cingulate Gyrus, Left Paracentral Lobule, Left Superior Frontal
			Gyrus, Right Medial Frontal Gyrus
62	2.9927	0.3860	Right Middle Temporal Gyrus, Right Superior Temporal Gyrus
142	2.9655	0.4220	NA
4	2.9569	0.4335	Right Postcentral Gyrus, Right Precentral Gyrus
242	2.9291	0.4742	Left Middle Frontal Gyrus, Left Precentral Gyrus
146	2.9190	0.4898	Right Precuneus, Left Precuneus, Left Superior Parietal Lobule
154	2.8978	0.5247	Left Precentral Gyrus
220	2.8830	0.5494	NA
216	2.7933	0.7274	Left Inferior Frontal Gyrus, Left Superior Temporal Gyrus, Left
			Insula, Left Claustrum
112	2.7845	0.7474	Right Inferior Temporal Gyrus, Right Uncus
95	2.7583	0.8102	Right Middle Temporal Gyrus
67	2.7267	0.9090	Right Middle Frontal Gyrus
			Continued on next page

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ROI	$oldsymbol{eta_a}$	P Value	ble S2 – continued from previous page  Brain Region
207	$\frac{\beta_a}{2.7228}$	0.9021	Left Lentiform Nucleus, Left Claustrum
$\frac{207}{232}$	2.7220 $2.6392$	1.0000	NA
$\frac{232}{171}$	2.6392 $2.6229$		
		1.0000	Left Posterior Cingulate, Left Cingulate Gyrus
204	2.5566	1.0000	Left Parahippocampal Gyrus, Left Posterior Cingulate
75	2.4269	1.0000	Right Superior Temporal Gyrus, Right Inferior Parietal Lobule,
050	0.4150	1 0000	Right Supramarginal Gyrus
258	2.4152	1.0000	Left Cingulate Gyrus, Right Cingulate Gyrus
129	2.3444	1.0000	Right Middle Frontal Gyrus, Right Inferior Frontal Gyrus
278	2.3382	1.0000	Left Precentral Gyrus
56	2.3283	1.0000	Right Superior Temporal Gyrus, Right Precentral Gyrus
249	2.3172	1.0000	Left Precuneus
59	2.3055	1.0000	Right Medial Frontal Gyrus, Left Superior Frontal Gyrus, Right Superior Frontal Gyrus
155	2.3054	1.0000	Left Thalamus
$\frac{133}{222}$	2.1523	1.0000	Left Middle Occipital Gyrus, Left Middle Temporal Gyrus
$\frac{222}{276}$	2.1323 $2.1351$	1.0000	Left Middle Frontal Gyrus  Left Middle Frontal Gyrus
52	1.9852	1.0000	Right Lentiform Nucleus
$\frac{32}{163}$	1.9652 $1.9677$	1.0000	Left Inferior Frontal Gyrus
68	1.9660	1.0000	Right Declive, Right Parahippocampal Gyrus
37			Right Medial Frontal Gyrus
122	1.9608	1.0000	Right Superior Temporal Gyrus, Right Inferior Parietal Lobule
$\frac{122}{221}$	1.9078	1.0000	Left Inferior Parietal Lobule
$\begin{array}{c} 221 \\ 235 \end{array}$	1.8774	1.0000 1.0000	Left Culmen, Left Fusiform Gyrus, Left Middle Occipital Gyrus
	1.8086		· · · · · · · · · · · · · · · · · · ·
58	1.8008	1.0000	Locus Coeruleus, Raphe, Ventral Tegmental Area, Right Culmen, Right Thalamus
2	1 7057	1.0000	
78	1.7957	1.0000 $1.0000$	Right Middle Frontal Gyrus, Right Superior Frontal Gyrus
25	1.7743		Right Inferior Frontal Gyrus, Right Middle Frontal Gyrus Right Subgenual Anterior Cingulate Cortex, Right Caudate Head
41	1.7439	1.0000	
148	1.7315	1.0000	Right Precuneus Left Precentral Gyrus
146	$1.7122 \\ 1.6967$	1.0000 1.0000	v
			Locus Coeruleus, Raphe, Ventral Tegmental Area, Left Thalamus
$\frac{177}{98}$	1.6508 $1.5866$	1.0000	Left Inferior Frontal Gyrus, Left Middle Frontal Gyrus Right Insula, Right Lentiform Nucleus
	1.5272	1.0000	, ,
$\frac{187}{20}$		1.0000	Left Medial Frontal Gyrus, Left Cingulate Gyrus
	1.5053	1.0000	Right Inferior Frontal Gyrus, Right Middle Frontal Gyrus
168	1.4680	1.0000	Left Lingual Gyrus, Left Cuneus
23	1.4308	1.0000	Right Middle Occipital Gyrus, Right Middle Temporal Gyrus
184	1.3673	1.0000	Left Lingual Gyrus
209	1.3535	1.0000	Left Superior Frontal Gyrus Left Middle Temporal Gyrus Left Angular Gyrus
192	1.2970	1.0000	Left Middle Temporal Gyrus, Left Angular Gyrus
261	1.2962	1.0000	Locus Coeruleus  Dight Programmer
60	1.2948	1.0000	Right Precuneus Left Cingulate Cunus Left Personntral Lehule
230	1.2928	1.0000	Left Cingulate Gyrus, Left Paracentral Lobule
139	1.2921	1.0000	Right Middle Frontal Gyrus, Right Precentral Gyrus
229	1.2751	1.0000	Left Middle Temporal Gyrus, Left Superior Temporal Gyrus
188	1.2567	1.0000	Left Superior Frontal Gyrus, Left Medial Frontal Gyrus
85	1.2453	1.0000	Right Middle Frontal Gyrus
$\frac{145}{137}$	1.2376	1.0000	Left Superior Temporal Gyrus, Left Inferior Frontal Gyrus
197	1.2146	1.0000	Right Superior Frontal Gyrus

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-			ole S2 – continued from previous page
ROI	$oldsymbol{eta_a}$	P Value	Brain Region
111	1.1962	1.0000	Right Superior Temporal Gyrus, Right Inferior Frontal Gyrus
208	1.1922	1.0000	Left Parahippocampal Gyrus, Left Lingual Gyrus
149	1.1226	1.0000	Left Lentiform Nucleus, Left Nucleus Accumbens, Left Claustrum
260	1.0570	1.0000	Left Thalamus
172	1.0368	1.0000	Left Superior Frontal Gyrus
46	1.0243	1.0000	Right Superior Frontal Gyrus, Right Middle Frontal Gyrus
140	1.0216	1.0000	Left Middle Frontal Gyrus, Left Superior Frontal Gyrus
11	1.0150	1.0000	Right Thalamus, Left Thalamus
157	1.0019	1.0000	Left Superior Parietal Lobule, Left Postcentral Gyrus
212	0.9765	1.0000	Left Middle Temporal Gyrus, Left Superior Temporal Gyrus
6	0.9731	1.0000	Right Middle Frontal Gyrus
10	0.9664	1.0000	Right Inferior Temporal Gyrus
164	0.9589	1.0000	Left Superior Frontal Gyrus
252	0.9385	1.0000	Left Culmen
265	0.9195	1.0000	NA
1	0.9000	1.0000	Right Precentral Gyrus, Right Middle Frontal Gyrus
223	0.8507	1.0000	Left Cuneus
150	0.8389	1.0000	NA
33	0.8314	1.0000	Right Middle Temporal Gyrus
134	0.8088	1.0000	Right Middle Frontal Gyrus, Right Superior Frontal Gyrus
270	0.8071	1.0000	Left Cuneus
18	0.7907	1.0000	Right Superior Temporal Gyrus, Right Insula, Right Inferior Pari-
			etal Lobule
110	0.7829	1.0000	Right Uvula, Right Lingual Gyrus, Right Inferior Occipital Gyrus
176	0.7483	1.0000	NA
93	0.6376	1.0000	Right Insula, Right Precentral Gyrus
236	0.6288	1.0000	Left Declive, Left Lingual Gyrus, Left Middle Occipital Gyrus
152	0.5736	1.0000	Right Cingulate Gyrus, Left Paracentral Lobule
162	0.5536	1.0000	NA
228	0.4751	1.0000	Left Superior Frontal Gyrus
169	0.4672	1.0000	Left Insula, Left Inferior Frontal Gyrus
185	0.3234	1.0000	Left Middle Occipital Gyrus, Left Cuneus
40	0.3050	1.0000	Right Inferior Parietal Lobule, Right Precuneus
65	0.2863	1.0000	Right Orbital Gyrus, Right Medial Frontal Gyrus, Left Medial
			Frontal Gyrus
248	0.2629	1.0000	Left Superior Frontal Gyrus
205	0.2537	1.0000	Left Declive, Left Lingual Gyrus
161	0.2325	1.0000	Left Anterior Cingulate
123	0.2273	1.0000	Right Superior Temporal Gyrus
165	0.2146	1.0000	NA
22	0.1890	1.0000	Right Orbital Gyrus, Right Subgenual Anterior Cingulate Cortex
100	0.1826	1.0000	Right Inferior Parietal Lobule, Right Postcentral Gyrus
225	0.1175	1.0000	Left Medial Frontal Gyrus, Left Anterior Cingulate
9	0.0881	1.0000	Right Superior Frontal Gyrus
143	0.0681	1.0000	Left Middle Frontal Gyrus
190	0.0671	1.0000	Left Precuneus
128	0.0286	1.0000	Right Inferior Frontal Gyrus, Right Lentiform Nucleus, Right Insula
159	0.0277	1.0000	NA V
233	0.0088	1.0000	Left Parahippocampal Gyrus
			77 7 7

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	Table S2 – continued from previous page					
ROI	$eta_a$	P Value	Brain Region			
153	-0.0033	1.0000	Left Middle Occipital Gyrus, Left Cuneus			
39	-0.0260	1.0000	Right Middle Temporal Gyrus			
54	-0.0574	1.0000	Left Anterior Cingulate, Right Anterior Cingulate			
201	-0.0764	1.0000	Left Inferior Temporal Gyrus, Left Fusiform Gyrus, Left Middle			
			Temporal Gyrus			
272	-0.1042	1.0000	NA T			
214	-0.1777	1.0000	Left Middle Occipital Gyrus, Left Cuneus, Left Precuneus, Left			
			Superior Parietal Lobule			
173	-0.1794	1.0000	Left Anterior Cingulate, Left Cingulate Gyrus, Left Medial Frontal			
			Gyrus, Left Superior Frontal Gyrus			
200	-0.1958	1.0000	Left Superior Frontal Gyrus			
16	-0.2058	1.0000	Right Precuneus			
133	-0.2105	1.0000	Right Amygdala, Right Inferior Frontal Gyrus			
132	-0.2175	1.0000	Right Precuneus, Right Cuneus			
181	-0.2176	1.0000	Left Superior Temporal Gyrus, Left Middle Temporal Gyrus			
254	-0.2257	1.0000	Left Postcentral Gyrus, Left Precentral Gyrus			
183	-0.2357	1.0000	Left Superior Temporal Gyrus, Left Insula, Left Inferior Parietal			
			Lobule			
195	-0.2677	1.0000	Left Postcentral Gyrus			
97	-0.3088	1.0000	Right Declive, Right Parahippocampal Gyrus, Right Culmen			
226	-0.3346	1.0000	Left Middle Frontal Gyrus			
135	-0.3378	1.0000	Left Cingulate Gyrus, Right Cingulate Gyrus, Right Paracentral			
			Lobule, Right Precuneus			
186	-0.3674	1.0000	Left Cingulate Gyrus			
89	-0.3801	1.0000	Right Middle Temporal Gyrus, Right Superior Temporal Gyrus			
189	-0.3878	1.0000	Left Inferior Frontal Gyrus			
273	-0.3996	1.0000	Left Lentiform Nucleus			
180	-0.4195	1.0000	Left Anterior Cingulate, Left Medial Frontal Gyrus, Left Cingulate			
101	0.4504	1 0000	Gyrus			
191	-0.4534	1.0000	Left Fusiform Gyrus, Left Parahippocampal Gyrus			
268	-0.4635	1.0000	Left Superior Temporal Gyrus, Left Postcentral Gyrus, Left Pre-			
40	0.5020	1 0000	central Gyrus			
48	-0.5038	1.0000	Right Posterior Cingulate, Right Precuneus			
241	-0.5115	1.0000	Left Superior Temporal Gyrus			
101	-0.5218 -0.6283	1.0000	Right Middle Frontal Gyrus, Right Superior Frontal Gyrus			
267		1.0000	Left Superior Frontal Gyrus			
69	-0.6421 -0.6699	1.0000	Right Medial Frontal Gyrus			
$\begin{array}{c} 15 \\ 17 \end{array}$	-0.0099 -0.7018	1.0000 $1.0000$	Right Lentiform Nucleus, Right Insula Right Inferior Parietal Lobule, Right Superior Temporal Gyrus,			
17	-0.7018	1.0000	Right Supramarginal Gyrus			
259	-0.7117	1.0000	Left Middle Frontal Gyrus, Left Superior Frontal Gyrus			
$\frac{259}{167}$	-0.7699	1.0000	Left Thalamus			
269	-0.7699 -0.7976	1.0000 $1.0000$	Left Claustrum, Left Precentral Gyrus			
240	-0.7970	1.0000 $1.0000$	Left Superior Parietal Lobule, Left Postcentral Gyrus			
$\frac{240}{263}$	-0.8166	1.0000 $1.0000$	Right Subgenual Anterior Cingulate Cortex, Left Subgenual Ante-			
۷05	-0.0200	1.0000	rior Cingulate Cortex, Left Caudate Head			
120	-0.8406	1.0000	Right Middle Occipital Gyrus			
51	-0.8838	1.0000	Right Inferior Temporal Gyrus, Right Middle Temporal Gyrus			
14	-0.9001	1.0000	Right Lingual Gyrus, Right Cuneus			
	0.0001	2.0000	Continued on next page			

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		Tal	ole S2 – continued from previous page
ROI	$eta_a$	P Value	Brain Region
72	-0.9134	1.0000	Right Precentral Gyrus
47	-0.9158	1.0000	Right Cingulate Gyrus, Left Cingulate Gyrus
211	-0.9630	1.0000	NA
44	-0.9651	1.0000	Right Superior Temporal Gyrus
156	-0.9696	1.0000	Left Cuneus
77	-0.9704	1.0000	Right Ventral Hippocampus, Right Culmen
250	-0.9839	1.0000	Left Precuneus, Left Superior Parietal Lobule
199	-0.9928	1.0000	Left Amygdala, Left Ventral Hippocampus
94	-1.0451	1.0000	Right Supramarginal Gyrus, Right Inferior Parietal Lobule
88	-1.0749	1.0000	Right Middle Frontal Gyrus
27	-1.0922	1.0000	Right Anterior Cingulate, Right Cingulate Gyrus, Left Cingulate
			Gyrus, Right Medial Frontal Gyrus
26	-1.1463	1.0000	Right Inferior Temporal Gyrus, Right Middle Temporal Gyrus,
			Right Superior Temporal Gyrus
275	-1.1931	1.0000	Left Middle Temporal Gyrus, Left Superior Parietal Lobule
36	-1.2199	1.0000	Right Cuneus, Right Precuneus
108	-1.2204	1.0000	Right Lingual Gyrus, Right Parahippocampal Gyrus
92	-1.2877	1.0000	Right Cingulate Gyrus
117	-1.2945	1.0000	Right Parahippocampal Gyrus, Right Lingual Gyrus
138	-1.3094	1.0000	Left Anterior Cingulate, Right Cingulate Gyrus, Left Medial Frontal
			Gyrus, Left Cingulate Gyrus
234	-1.3325	1.0000	Left Middle Temporal Gyrus
34	-1.3611	1.0000	Right Precentral Gyrus
71	-1.3617	1.0000	Right Cingulate Gyrus, Left Paracentral Lobule, Left Superior
			Frontal Gyrus, Right Medial Frontal Gyrus
266	-1.4422	1.0000	Left Parahippocampal Gyrus, Left Ventral Hippocampus
203	-1.4441	1.0000	Left Middle Frontal Gyrus
246	-1.4567	1.0000	Left Precentral Gyrus
43	-1.4696	1.0000	Right Inferior Frontal Gyrus, Right Insula
86	-1.4804	1.0000	Right Uvula
151	-1.5003	1.0000	Left Subgenual Anterior Cingulate Cortex, Left Nucleus Accumbens,
			Right Subgenual Anterior Cingulate Cortex, Left Caudate Head
255	-1.5118	1.0000	Left Precuneus, Left Postcentral Gyrus, Left Paracentral Lobule
224	-1.5847	1.0000	Left Cingulate Gyrus, Right Precuneus, Left Precuneus
61	-1.6367	1.0000	Right Uvula, Right Declive
182	-1.6508	1.0000	Left Anterior Cingulate, Left Medial Frontal Gyrus
53	-1.8320	1.0000	Right Cuneus, Right Lingual Gyrus, Right Precuneus
160	-1.8721	1.0000	Left Superior Parietal Lobule, Left Inferior Parietal Lobule
197	-1.8726	1.0000	Left Middle Frontal Gyrus
179	-1.8776	1.0000	Left Inferior Frontal Gyrus, Left Middle Frontal Gyrus
107	-1.8976	1.0000	Right Middle Frontal Gyrus
210	-2.0013	1.0000	Left Middle Temporal Gyrus, Left Superior Temporal Gyrus
106	-2.0423	1.0000	Right Middle Occipital Gyrus, Right Cuneus
194	-2.1739	1.0000	Left Superior Parietal Lobule, Left Angular Gyrus, Left Inferior
			Parietal Lobule
119	-2.3431	1.0000	Left Medial Frontal Gyrus, Right Medial Frontal Gyrus
274	-2.3842	1.0000	Left Superior Frontal Gyrus
118	-2.4475	1.0000	Right Thalamus
50	-2.5855	1.0000	Right Precentral Gyrus, Right Postcentral Gyrus
			Continued on next page

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ROI	$oldsymbol{eta_a}$	P Value	Brain Region
63	-2.6486	1.0000	Right Middle Frontal Gyrus, Right Precentral Gyrus, Right Superior
			Frontal Gyrus
170	-2.8091	1.0000	Left Subgenual Anterior Cingulate Cortex
244	-2.8758	1.0000	Left Middle Temporal Gyrus
114	-3.0942	1.0000	Right Nucleus Accumbens, Right Subgenual Anterior Cingulate
			Cortex, Right Caudate Head
74	-3.1817	1.0000	Right Inferior Frontal Gyrus, Right Middle Frontal Gyrus, Right
			Subgenual Anterior Cingulate Cortex
125	-3.2424	1.0000	Right Inferior Parietal Lobule
42	-3.2987	1.0000	Right Parahippocampal Gyrus
66	-3.3290	1.0000	NA
251	-4.1666	1.0000	Left Superior Frontal Gyrus

**Table S3.** Mapping between Power and Shen atlas ROIs found from solution to Assignment Problem. Mapped ROIs were those that sufficiently intersected ROIs in the opposing atlas such that a one-to-one mapping was possible.

Shen ROI	Power ROI
1	71
2	121
4	28
5	72
6	181
7	49
8	25
9	193
10	116
11	225
12	140
14	170
15	67
16	135
17	48
18	238
19	9
20	189
21	89
22	5
23	144
24	96
25	270
26	249
27	217
28	41
29	32
32	19
33	119
	Continued on next page

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Table S3 – continued from previous page

Table S3 $-$	continued from previous page
Shen ROI	Power ROI
34	44
36	156
37	75
38	127
39	80
40	194
41	136
42	125
43	211
44	62
45	22
46	102
48	95
50	46
52	233
53	145
54	122
55	203
56	63
57	26
58	277
59	54
60	256
61	185
62	239
63	205
64	53
65	76
67	218
68	246
69	105
71	16
74	85
75	235
77	274
78	139
80	258
81	108
82	60
83	56
84	163
85	264
87	254
88	206
89	123
90	179
91	209
92	221
93	43
	Continued on next page

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Table S3 – continued from previous page

Table S3 $-$	continued from previous page
Shen ROI	Power ROI
94	204
95	257
96	141
97	150
98	229
99	52
100	255
101	101
102	153
103	241
104	245
105	31
106	157
107	175
108	165
109	10
111	207
112	247
113	7
114	266
116	186
118	222
119	110
120	169
121	158
122	240
123	82
124	196
125	199
127	148
128	230
129	200
130	184
131	106
132	93
133	272
134	180
135	92
136	143
137	219
138	216
139	29
140	188
143	201
144	276
146	13
147	262
148	24
149	227
	Continued on next page

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Table S3 – continued from previous page

	ntinued from previous page
Shen ROI	Power ROI
151	265
152	15
153	149
154	45
155	223
156	152
157	30
160	259
161	212
163	132
166	33
167	224
168	146
170	267
171	90
172	138
173	59
177	187
178	243
179	198
180	112
181	81
182	113
183	64
185	147
186	88
187	202
189	137
190	166
191	124
192	86
193	197
194	195
195	20
197	174
198	250
199	271
201	4
202	183
203	178
204	91
205	151
206	176
200 207	232
207	252 160
208 209	182
210	118
$   \begin{array}{c}     212 \\     213   \end{array} $	$     \begin{array}{r}       120 \\       248     \end{array} $
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Table S3 – continued from previous page

Table S3 –	continued from previous page
Shen ROI	Power ROI
214	260
215	242
216	208
217	6
218	70
221	177
222	164
223	155
224	94
225	107
226	100
228	99
229	252
230	14
233	77
234	117
235	253
236	142
237	58
238	84
239	275
240	263
241	236
242	261
243	8
244	129
245	68
246	55
247	172
248	104
249	134
250	191
252	244
253	18
254	69
255	38
257	1
258	133
259	214
262	34
263	269
264	51
266	273
267	114
268	65
269	57
270	167
271	109
273	228
	Continued on next page

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Table S3 – continued from previous page

Shen ROI	Power ROI
274	78
275	74
276	220
277	50
278	42

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