

# 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.

ROI	$\beta_a$	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	2.7252	1.0000	Right Insula	Anterior Salience
243	2.7024	1.0000	Left Declive	Sensorimotor
215	2.6516	1.0000	Left Anterior Cingulate	Anterior Salience
177	2.6504	1.0000	Left Inferior Parietal Lobule	LECN
241	2.6313	1.0000	Right Inferior Frontal Gyrus	Language
263	2.6048	1.0000	Left Superior Parietal Lobule	Ventral DMN
113	2.5824	1.0000	Left Anterior Cingulate	Dorsal DMN
34	2.5346	1.0000	Left Postcentral Gyrus	Sensorimotor
105	2.5266	1.0000	Right Medial Frontal Gyrus	Dorsal DMN
92	2.5078	1.0000	Right Cingulate Gyrus	Dorsal DMN
75	2.4484	1.0000	Right Medial Frontal Gyrus	Dorsal DMN

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ROI	$\beta_a$	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	NA
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	$\beta_a$	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	NA
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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ROI	$\beta_a$	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
265	0.4676	1.0000	Left Nucleus Accumbens	NA
223	0.4582	1.0000	Left Thalamus	Dorsal DMN
262	0.4542	1.0000	Left Middle Occipital Gyrus	Visuospatial
143	0.4420	1.0000	Right Parahippocampal Gyrus	Sensorimotor

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ROI	$\beta_a$	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

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ROI	$\beta_a$	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	REC�