

Table S1. Significant N>R Correlations with Performance Using a Left Hippocampal Seed

<i>Clinical/Cognitive Measure</i>	<i>Cluster Size</i>	<i>Peak T-statistic</i>	<i>Peak X,Y,Z</i>	<i>Region</i>
<i>ADAS-Cog Del. Recall</i>				
	176	4.01	60,2,-34	R. Inferior Temporal Gyrus
		3.64	52,2,-30	R. Middle Temporal Gyrus
		2.83	52,4,-40	R. Inferior Temporal Gyrus
	324	3.76	-50,-18,26	L. Postcentral Gyrus
		3.57	-48,-28,30	L. Supramarginal Gyrus
	191	3.26	4,-40,32	R. Middle Cingulate Cortex
		3.11	6,-24,34	R. Middle Cingulate Cortex
		2.91	4,-32,36	R. Middle Cingulate Cortex
		2.80	2,-6,32	R. Middle Cingulate Cortex
<i>ADAS-Cog Recog.</i>				
	208	5.00	-42,-64,22	L. Middle Temporal Gyrus
	189	4.26	-44,-32,-16	L. Inferior Temporal Gyrus
		3.73	-54,-6,-30	L. Inferior Temporal Gyrus
		3.47	-38,-22,-24	L. Inferior Temporal Gyrus
		3.46	-46,-10,-44	L. Inferior Temporal Gyrus
		3.35	-46,-24,-14	L. Middle Temporal Gyrus
		3.16	-52,-10,-22	L. Middle Temporal Gyrus
		3.06	-44,-16,-24	L. Inferior Temporal Gyrus
		3.00	-54,-22,-10	L. Middle Temporal Gyrus
		3.00	-54,-4,-40	L. Inferior Temporal Gyrus
	361	4.14	-62,-40,22	L. Superior Temporal Gyrus
		4.06	-42,-42,18	L. Superior Temporal Gyrus
		2.57	-50,-26,22	L. Supramarginal Gyrus
	351	3.99	-20,-52,44	L. Superior Parietal Lobule
		3.82	-28,-62,46	L. Superior Parietal Lobule
		3.00	-34,-64,52	L. Superior Parietal Lobule
		2.68	-26,-46,58	L. Superior Parietal Lobule
<i>FCSRT Free Recall</i>				
	286	4.65	56,2,-36	R. Inferior Temporal Gyrus
		4.45	46,-6,-26	R. Inferior Temporal Gyrus
		2.80	40,-14,-16	R. Hippocampus
	484	4.44	-48,-24,24	L. Supramarginal Gyrus
		3.98	-44,-40,10	L. Superior Temporal Gyrus
	235	4.09	42,40,36	R. Middle Frontal Gyrus
		3.74	46,32,42	R. Middle Frontal Gyrus
		3.30	54,32,34	R. Middle Frontal Gyrus
		3.22	32,32,52	R. Middle Frontal Gyrus
		3.13	38,28,56	R. Middle Frontal Gyrus
	301	4.07	-52,-4,-32	L. Inferior Temporal Gyrus
		3.56	-42,0,-28	L. Middle Temporal Gyrus

	3.34	-50,0,-44	L. Inferior Temporal Gyrus	
	3.28	-50,-8,-42	L. Inferior Temporal Gyrus	
<i>FCR</i>				
	224	5.48	50,-36,10	R. Superior Temporal Gyrus
	287	5.19	14,56,32	R. Med. Superior Frontal Gyrus
		4.02	8,54,46	R. Med. Superior Frontal Gyrus
		3.68	12,46,50	R. Superior Frontal Gyrus
	644	4.77	34,-80,-36	R. Cerebellum
		4.47	16,-80,-26	R. Cerebellum
		3.78	20,-70,-34	R. Cerebellum
		3.72	44,-68,-40	R. Cerebellum
		3.51	14,-66,-28	R. Cerebellum
		3.11	36,-66,-48	R. Cerebellum
		2.81	18,-84,-36	R. Cerebellum
		2.66	28,-82,-48	R. Cerebellum
	285	4.49	-12,-6,-18	L. Parahippocampal Gyrus
		3.07	-8,-4,-30	L. Parahippocampal Gyrus
	266	4.15	-22,-70,-50	L. Cerebellum
		4.03	-24,-66,-42	L. Cerebellum
		3.84	6,-70,-54	R. Cerebellum
		3.40	2,-78,-46	R. Cerebellum
		3.13	-8,-72,-52	L. Cerebellum
		2.92	-10,-62,-56	L. Cerebellum
		2.74	-34,-66,-44	L. Cerebellum
	322	3.49	-28,-8,-36	L. Fusiform Gyrus
		3.40	-28,2,-38	L. Fusiform Gyrus
		3.35	-36,10,-18	L. Superior Temporal Pole
		3.24	-42,-2,-20	L. Superior Temporal Pole
		3.03	-34,10,-30	L. Superior Temporal Pole
		2.91	-42,16,-32	L. Middle Temporal Pole

CDR-sb

179	3.99	10,-36,32	R. Middle Cingulate Cortex
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ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; Med., Medial; R., Right; L., Left

Table S2. Significant R>N Correlations with Performance Using a Left Hippocampal Seed

<i>Clinical/Cognitive Measure</i>	<i>Cluster Size</i>	<i>Peak T-statistic</i>	<i>Peak X,Y,Z</i>	<i>Region</i>	
<i>ADAS-Cog Recog.</i>	239	4.23	46,16,-34	R. Middle Temporal Pole	
		3.61	40,20,-46	R. Middle Temporal Pole	
		3.42	30,18,-22	R. Inferior Frontal Gyrus - orbital part	
	194	2.66	32,20,-34	R. Middle Temporal Pole	
		4.15	-34,6,-34	L. Middle Temporal Pole	
		2.73	-32,12,-24	L. Superior Temporal Pole	
	729	3.97	12,-20,-34	Brainstem	
		3.86	18,-18,-20	R. Parahippocampal Gyrus	
		3.73	6,-12,-36	Brainstem	
		3.70	18,-30,-18	R. Parahippocampal Gyrus	
		3.70	2,-6,-30	Anterior of Brainstem	
		3.66	8,-28,-38	Brainstem	
		3.65	-14,-32,-32	L. Cerebellum	
		3.52	16,-14,-38	Anterior of Brainstem	
		3.16	-8,-22,-38	Brainstem	
		3.12	26,-8,-16	R. Hippocampus	
		3.00	20,-10,-24	R. Parahippocampal Gyrus	
		233	3.92	26,-50,-54	R. Cerebellum
	3.37		16,-40,-42	R. Cerebellum	
	226	3.76	26,44,-10	R. Middle Frontal Gyrus - orbital part	
		3.31	28,24,-6	R. Insula	
	<i>FCSRT Free Recall</i>	1356	5.06	18,62,-6	R. Superior Frontal Gyrus - orbital part
			4.76	12,64,-12	R. Middle Frontal Gyrus - orbital part
4.42			-16,28,-8	L. Gyrus Rectus	
4.33			24,14,-24	R. Inferior Frontal Gyrus - orbital part	
4.26			14,52,-6	R. Middle Frontal Gyrus - orbital part	
4.19			-20,58,-8	L. Superior Frontal Gyrus - orbital part	
4.12			24,56,-18	R. Middle Frontal Gyrus - orbital part	
3.98			-18,40,-8	L. Superior Frontal Gyrus - orbital part	
3.70			26,60,-8	R. Superior Frontal Gyrus - orbital part	
3.23			28,30,-20	R. Inferior Frontal Gyrus - orbital part	
3.22			36,56,-16	R. Middle Frontal Gyrus - orbital part	
3.07			32,22,-30	R. Superior Temporal Pole	
3.03			18,36,-6	R. Middle Frontal Gyrus - orbital part	
3.03			-8,50,0	L. Anterior Cingulate Cortex	
2.90			26,46,-14	R. Middle Frontal Gyrus - orbital part	
2.89			24,38,-12	R. Superior Frontal Gyrus - orbital part	
<i>FCSRT Total</i>			221	5.79	40,16,-38
	3.58	30,18,-44		R. Fusiform Gyrus	
	403	4.39	18,-20,-22	R. Parahippocampal Gyrus	
		4.02	10,-20,-34	Brainstem	
		3.54	30,-6,-28	R. Parahippocampal Gyrus	
		3.21	32,-28,-12	R. Hippocampus	
		3.20	14,-14,-38	Anterior of Brainstem	
		2.77	20,-10,-24	R. Parahippocampal Gyrus	

	180	3.94	-12,-32,-32	L. Cerebellum
		3.68	-8,-22,-38	Brainstem
		2.71	-16,-20,-22	L. Parahippocampal Gyrus
<i>FR</i>				
	736	4.67	32,-42,-20	R.Fusiform Gyrus
		4.09	54,-52,-12	R. Inferior Temporal Gyrus
		3.89	46,-46,-20	R. Inferior Temporal Gyrus
		3.80	64,-24,0	R. Superior Temporal Gyrus
		3.61	42,-40,-24	R. Fusiform Gyrus
		3.10	58,-38,-6	R. Middle Temporal Gyrus
		2.87	72,-24,2	R. Superior Temporal Gyrus
	444	4.54	12,-52,76	R. Postcentral Gyrus
		3.89	20,-80,56	R. Superior Parietal Lobule
		3.73	14,-76,52	R. Superior Parietal Lobule
		3.55	14,-42,80	R. Postcentral Gyrus
		3.46	14,-70,64	R. Superior Parietal Lobule
		3.25	24,-48,68	R. Superior Parietal Lobule
	354	3.99	26,4,-2	R. Putamen
		2.85	22,14,4	R. Putamen
	209	3.63	30,22,40	R. Middle Frontal Gyrus
		2.82	24,24,50	R. Superior Frontal Gyrus
	245	3.45	-46,-66,44	L. Angular Gyrus
		3.36	-42,-78,44	L. Angular Gyrus
		3.33	-58,-48,38	L. Inferior Parietal Gyrus
		3.23	-50,-60,40	L. Angular Gyrus

ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; Med., Medial; R., Right; L., Left

Table S3. Significant N>R Correlations with Performance Using a Right Hippocampal Seed

<i>Clinical/Cognitive Measure</i>	<i>Cluster Size</i>	<i>Peak T-statistic</i>	<i>Peak X,Y,Z</i>	<i>Region</i>	
<i>ADAS-Cog Recall</i>	279	4.89	42,-60,38	R. Angular Gyrus	
		2.75	58,-60,42	R. Inferior Parietal Lobule	
<i>FCSRT Free Recall</i>	193	5.14	-44,-32,24	L. Supramarginal Gyrus	
	380	4.45	22,-100,4	R. Superior Occipital Gyrus	
		3.74	30,-80,8	R. Middle Occipital Gyrus	
		3.30	32,-94,8	R. Middle Occipital Gyrus	
	411	4.25	-26,-98,-4	L. Middle Occipital Gyrus	
		4.14	-4,-98,-4	L. Calcarine Sulcus	
		3.62	-12,-98,6	L. Superior Occipital Gyrus	
		3.58	-18,-104,18	L. Superior Occipital Gyrus	
		3.40	-12,-96,14	L. Superior Occipital Gyrus	
		3.20	4,-100,0	R. Calcarine Sulcus	
		3.18	-18,-98,24	L. Superior Occipital Gyrus	
	211	3.08	-14,-88,14	L. Superior Occipital Gyrus	
		4.25	42,-60,34	R. Angular Gyrus	
		3.45	46,-64,20	R. Middle Temporal Gyrus	
	205	4.21	-22,-86,46	L. Superior Occipital Gyrus	
		4.09	-12,-86,38	L. Cuneus	
		3.03	-28,-88,38	L. Middle Occipital Gyrus	
	<i>FCSRT Total</i>	224	6.77	42,-62,36	R. Angular Gyrus
		652	5.35	24,-98,4	R. Middle Occipital Gyrus
4.88			22,-98,-6	R. Calcarine Sulcus	
4.37			32,-96,10	R. Middle Occipital Gyrus	
3.90			32,-90,4	R. Middle Occipital Gyrus	
2.92			18,-96,30	R. Superior Occipital Gyrus	
2.89			20,-96,22	R. Superior Occipital Gyrus	
2.79			34,-94,18	R. Middle Occipital Gyrus	
807		4.54	-18,-100,14	L. Superior Occipital Gyrus	
		4.45	-26,-98,-4	L. Middle Occipital Gyrus	
		4.40	-10,-98,-2	L. Calcarine Sulcus	
		4.37	-8,-100,10	L. Superior Occipital Gyrus	
		4.12	-36,-88,-4	L. Middle Occipital Gyrus	
		3.44	-18,-98,-6	L. Calcarine Sulcus	
		3.18	-34,-84,12	L. Middle Occipital Gyrus	
	<i>FCR</i>	328	5.86	-42,22,-36	L. Middle Temporal Pole
4.03			-36,14,-42	L. Inferior Temporal Gyrus	

	3.87	-44,8,-50	L. Middle Temporal Pole
	2.92	-38,14,-20	L. Superior Temporal Pole
	2.83	-32,18,-34	L. Middle Temporal Pole
2104	5.45	42,-50,-38	R. Cerebellum
	4.83	34,-82,-34	R. Cerebellum
	4.76	30,-76,-24	R. Cerebellum
	4.71	2,-68,-52	R. Cerebellum
	4.21	30,-76,-54	R. Cerebellum
	4.12	48,-64,-36	R. Cerebellum
	4.05	-20,-68,-54	L. Cerebellum
	3.98	14,-66,-60	R. Cerebellum
	3.83	-24,-66,-42	L. Cerebellum
	3.71	30,-68,-26	R. Cerebellum
	3.59	-36,-62,-42	L. Cerebellum
	3.55	16,-68,-38	R. Cerebellum
	3.51	2,-80,-44	R. Cerebellum
	3.47	28,-84,-24	R. Cerebellum
	3.45	40,-68,-28	R. Cerebellum
	3.33	-4,-70,-38	L. Cerebellum
	3.32	14,-66,-28	R. Cerebellum
	3.31	28,-60,-54	R. Cerebellum
	3.28	34,-66,-50	R. Cerebellum
	3.17	14,-88,-38	R. Cerebellum
	3.15	42,-72,-16	R. Inferior Occipital Gyrus
	3.13	18,-56,-62	R. Cerebellum
	3.12	30,-56,-20	R. Cerebellum
	3.10	16,-56,-14	R. Cerebellum
	2.96	16,-76,-54	R. Cerebellum
	2.88	8,-66,-34	R. Cerebellum
	2.70	-38,-72,-44	L. Cerebellum
	2.67	-10,-78,-42	L. Cerebellum
669	4.74	4,-96,-2	L. Calcarine Sulcus
	3.98	2,-86,-18	R. Cerebellum
	3.79	0,-78,-8	L. Lingual Gyrus
	3.65	-8,-80,-12	L. Lingual Gyrus
	3.48	-4,-98,-8	L. Calcarine Sulcus
	3.14	16,-98,-10	R. Lingual Gyrus
	2.88	-4,-102,2	L. Calcarine Sulcus
	2.81	-24,-86,-6	L. Inferior Occipital Gyrus
	2.74	0,-98,10	L. Calcarine Sulcus
309	4.36	8,-14,-30	Brainstem
	3.78	0,-12,-30	Brainstem
	3.62	-18,-6,-24	L. Parahippocampal Gyrus
	3.58	-2,-2,-20	L. Parahippocampal Gyrus
264	3.98	6,10,-8	R. Caudate
	3.79	-6,4,-4	L. Caudate
	3.66	-4,12,-8	L. Caudate

	3.36	-20,10,4	L. Putamen
260	3.63	14,56,28	R. Superior Frontal Gyrus
	3.60	12,50,36	R. Med. Superior Frontal Gyrus
	3.45	10,58,20	R. Med. Superior Frontal Gyrus
351	3.60	36,54,8	R. Middle Frontal Gyrus
	3.33	32,44,12	R. Middle Frontal Gyrus
	3.06	22,44,18	R. Superior Frontal Gyrus
	2.98	24,54,6	R. Superior Frontal Gyrus

ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; Med., Medial; R., Right; L., Left

Table S4. Significant R>N Correlations with Performance Using a Right Hippocampal Seed

<i>Clinical/Cognitive Measure</i>	<i>Cluster Size</i>	<i>Peak T-statistic</i>	<i>Peak X,Y,Z</i>	<i>Region</i>
<i>ADAS-Cog Recog.</i>				
	699	5.18	24,-50,-54	R. Cerebellum
		3.67	40,-56,-44	R. Cerebellum
		3.52	12,-38,-26	R. Cerebellum
		3.52	18,-48,-26	R. Cerebellum
		3.48	18,-42,-42	R. Cerebellum
		3.44	18,-58,-52	R. Cerebellum
		3.33	10,-52,-20	R. Cerebellum
		2.87	30,-52,-42	R. Cerebellum
		2.70	24,-34,-24	R. Cerebellum
		2.65	12,-64,-58	R. Cerebellum
	836	3.66	34,26,-6	R. Inferior Frontal Gyrus - orbital part
		3.59	42,18,-4	R. Insula
		3.26	16,22,4	R. Caudate
		3.11	22,24,12	R. Caudate
		2.97	24,38,-6	R. Inferior Frontal Gyrus - orbital part
		2.87	10,36,2	R. Anterior Cingulate Cortex
		2.80	56,14,-10	R. Superior Temporal Pole
		2.63	32,20,14	R. Insula
	299	3.61	-8,-42,30	L. Posterior Cingulate Cortex
		3.36	-4,-60,24	L. Precuneus
		2.75	-6,-60,36	L. Precuneus
	184	3.46	8,-82,18	R. Cuneus
		3.18	4,-92,16	R. Cuneus
		3.05	2,-82,6	R. Calcarine Sulcus
		2.60	12,-90,28	R. Cuneus
	177	3.45	-14,18,6	L. Caudate
<i>ADAS-Cog Total</i>				
	276	4.79	40,-36,14	R. Superior Temporal Gyrus
		3.96	34,-42,20	White Matter
		3.19	42,-46,14	R. Middle Temporal Gyrus
		2.68	18,-46,18	R. Precuneus
	302	4.14	36,4,50	R. Precentral Gyrus
		3.28	48,-4,44	R. Precentral Gyrus
		2.94	42,2,36	R. Precentral Gyrus
	247	3.88	28,-34,38	R. Postcentral Gyrus
		3.34	24,-44,38	R. Postcentral Gyrus
		3.33	32,-40,46	R. Supramargina Gyrus
		3.04	24,-30,52	R. Postcentral Gyrus
<i>FCSRT Free Recall</i>				
	308	4.95	18,62,-6	R. Superior Frontal Gyrus - orbital part
		3.49	24,70,8	R. Superior Frontal Gyrus
	265	3.50	28,-26,58	R. Precentral Gyrus
		3.29	32,-8,66	R. Superior Frontal Gyrus
		2.82	26,-16,72	R. Precentral Gyrus
<i>FCSRT Total</i>				
	175	5.23	28,30,40	R. Middle Frontal Gyrus

603	3.98	46,-4,46	R. Precentral Gyrus
	3.48	30,-6,56	R. Precentral Gyrus
	3.25	62,-4,46	R. Precentral Gyrus
	3.24	30,-4,66	R. Superior Frontal Gyrus
	3.22	36,4,50	R. Precentral Gyrus
	3.18	44,8,36	R. Precentral Gyrus

FR

359	5.45	58,-58,18	R. Middle Temporal Gyrus
	3.36	66,-50,6	R. Middle Temporal Gyrus
	2.99	60,-66,20	R. Middle Temporal Gyrus
180	4.90	12,-16,-12	R. Hippocampus
3667	4.87	-22,10,50	L. Middle Frontal Gyrus
	4.40	-28,-2,56	L. Middle Frontal Gyrus
	4.28	-42,10,50	L. Middle Frontal Gyrus
	4.20	-40,8,42	L. Precentral Gyrus
	4.15	-32,-22,36	L. Postcentral Gyrus
	4.07	-30,8,28	L. Inferior Frontal Operculum
	3.96	-20,-8,40	L. Middle Cingulate Cortex
	3.93	-38,-12,20	L. Insula
	3.87	-10,-46,38	L. Precuneus
	3.74	-28,-10,28	White Matter
	3.62	-16,-28,54	L. Paracentral Lobule
	3.57	-36,0,64	L. Precentral Gyrus
	3.51	-58,0,40	L. Precentral Gyrus
	3.46	-20,-22,42	L. Middle Cingulate Cortex
	3.41	-32,-8,48	L. Precentral Gyrus
	3.38	-22,8,34	L. Middle Frontal Gyrus
	3.37	-6,-24,30	L. Middle Cingulate Cortex
	3.37	-22,-36,38	L. Middle Cingulate Cortex
	3.30	-48,-2,56	L. Precentral Gyrus
	3.25	4,-14,40	R. Middle Cingulate Cortex
	3.17	-4,-30,42	L. Middle Cingulate Cortex
	3.13	-30,-2,12	L. Insula
	3.09	-58,10,40	L. Precentral Gyrus
	3.03	-22,-10,56	L. Superior Frontal Gyrus
	2.98	-26,-34,46	L. Postcentral Gyrus
	2.92	0,-40,44	L. Middle Cingulate Cortex
	2.81	-52,-14,16	L. Postcentral Gyrus
	2.77	-14,-6,52	L. Supplementary Motor Area
	2.76	-8,-6,58	L. Supplementary Motor Area
	2.61	-32,-6,2	L. Putamen
449	4.82	-64,-50,-2	L. Middle Temporal Gyrus
	4.35	-54,-54,-6	L. Inferior Temporal Gyrus
	3.46	-64,-38,-6	L. Middle Temporal Gyrus
	3.36	-46,-46,-20	L. Inferior Temporal Gyrus
	3.18	-36,-42,-20	L. Fusiform Gyrus
588	4.65	-50,-60,38	L. Angular Gyrus
	4.57	-54,-38,48	L. Inferior Parietal Lobule
	4.20	-58,-48,46	L. Inferior Parietal Lobule
	4.04	-54,-24,48	L. Inferior Parietal Lobule
	3.29	-54,-40,56	L. Inferior Parietal Lobule
	2.79	-44,-54,34	L. Angular Gyrus
1417	4.42	34,8,56	R. Middle Frontal Gyrus
	4.08	20,6,40	R. Middle Frontal Gyrus

	4.02	40,2,30	R. Precentral Gyrus
	3.95	52,-6,52	R. Middle Frontal Gyrus
	3.70	30,24,44	R. Middle Frontal Gyrus
	3.61	24,8,52	R. Superior Frontal Gyrus
	3.08	42,-6,60	R. Precentral Gyrus
	3.07	34,-4,54	R. Middle Frontal Gyrus
	3.06	16,-6,44	R. Middle Cingulate Cortex
	2.86	22,18,44	R. Superior Frontal Gyrus
	2.85	16,10,58	R. Superior Frontal Gyrus
679	4.31	-38,20,6	L. Inferior Frontal Gyrus - pars triangula
	3.80	-50,24,2	L. Inferior Frontal Gyrus - pars triangula
	3.47	-52,40,2	L. Inferior Frontal Gyrus - pars triangula
	3.39	-58,32,10	L. Inferior Frontal Gyrus - pars triangula
	3.29	-58,10,16	L. Inferior Frontal Operculum
	3.19	-52,16,18	L. Inferior Frontal Operculum
	2.56	-60,8,6	L. Inferior Frontal Operculum
251	4.23	58,-48,46	R. Inferior Parietal Lobule
	3.43	50,-64,48	R. Angular Gyrus
310	4.13	16,-4,72	R. Superior Frontal Gyrus
	3.67	14,-4,64	R. Supplementary Motor Area
	3.37	16,-14,64	R. Supplementary Motor Area
236	4.02	52,-52,-16	R. Inferior Temporal Gyrus
	3.61	44,-42,-22	R. Fusiform Gyrus
257	3.45	-52,-44,22	L. Superior Temporal Gyrus
	3.35	-44,-52,14	L. Middle Temporal Gyrus
	2.93	-56,-30,20	L. Superior Temporal Gyrus
293	3.45	-20,-10,-2	L. Pallidum
	3.05	-24,-16,10	L. Putamen
	2.94	-14,-20,8	L. Thalamus
	2.92	-12,-10,8	L. Thalamus

CDR-sb

180	4.79	34,-38,48	R. Supramarginal Gyrus
230	4.33	-36,-60,-6	L. Inferior Occipital Gyrus
	3.51	-28,-74,8	L. Middle Occipital Gyrus
	2.93	-26,-68,-2	L. Lingual Gyrus
269	3.97	34,-42,20	White Matter
	3.66	30,-58,24	R. Precuneus
	2.91	42,-46,14	R. Middle Temporal Gyrus
190	3.69	10,-36,8	R. Posterior Cingulate Cortex
	2.88	4,-42,0	R. Cerebellum

MMSE

216	4.05	36,4,50	R. Precentral Gyrus
	3.17	48,-4,46	R. Precentral Gyrus
	2.73	42,4,34	R. Precentral Gyrus

ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; Med., Medial; R., Right; L., Left

Table S5. Spatial Distribution for the top 25% of voxels

<i>Clinical/Cognitive Measure</i>	<i>ICA Network</i>							
	<i>Medial Visual</i>	<i>Lateral Visual</i>	<i>Default-Mode Network</i>	<i>Cerebellum</i>	<i>Sensorimotor</i>	<i>Auditory</i>	<i>Executive Control</i>	<i>Frontoparietal</i>
<i>Network Size (Voxels)</i>	24658	17195	17658	14738	25165	23712	26970	47532
<i>L. Hippocampus - N>R</i>								
ADAS-Cog Recall	0.258	0.287	0.372	0.242	0.188	0.361	0.108	0.248
ADAS-Cog Del. Recall	0.124	0.127	0.340	0.355	0.321	0.453	0.083	0.250
ADAS-Cog Recog.	0.230	0.232	0.336	0.105	0.373	0.295	0.089	0.283
ADAS-Cog Total	0.224	0.239	0.376	0.227	0.209	0.395	0.069	0.280
FCSRT Free Recall	0.249	0.314	0.492	0.174	0.260	0.305	0.057	0.237
FCSRT Total	0.352	0.406	0.359	0.165	0.234	0.270	0.077	0.224
FR	0.538	0.461	0.197	0.313	0.169	0.279	0.119	0.127
FCR	0.323	0.311	0.376	0.422	0.126	0.284	0.228	0.151
CDR-sb	0.214	0.140	0.496	0.239	0.159	0.194	0.273	0.284
MMSE	0.237	0.286	0.435	0.212	0.169	0.372	0.077	0.266
<i>L. Hippocampus - R>N</i>								
ADAS-Cog Recall	0.189	0.169	0.215	0.257	0.244	0.143	0.436	0.273
ADAS-Cog Del. Recall	0.380	0.334	0.215	0.180	0.164	0.092	0.373	0.242
ADAS-Cog Recog.	0.235	0.203	0.270	0.398	0.094	0.213	0.475	0.194
ADAS-Cog Total	0.209	0.228	0.206	0.285	0.215	0.148	0.455	0.238
FCSRT Free Recall	0.242	0.152	0.168	0.348	0.204	0.140	0.449	0.256
FCSRT Total	0.188	0.120	0.224	0.362	0.168	0.180	0.466	0.260
FR	0.092	0.163	0.196	0.165	0.315	0.234	0.232	0.394
FCR	0.168	0.199	0.156	0.124	0.412	0.210	0.169	0.365
CDR-sb	0.277	0.372	0.114	0.249	0.317	0.292	0.167	0.234
MMSE	0.225	0.176	0.176	0.269	0.260	0.127	0.444	0.258
<i>R. Hippocampus - N>R</i>								
ADAS-Cog Recall	0.277	0.229	0.286	0.324	0.108	0.392	0.189	0.246
ADAS-Cog Del. Recall	0.374	0.374	0.389	0.473	0.071	0.203	0.078	0.236
ADAS-Cog Recog.	0.399	0.343	0.286	0.215	0.139	0.255	0.131	0.261
ADAS-Cog Total	0.349	0.305	0.275	0.346	0.063	0.293	0.168	0.264
FCSRT Free Recall	0.421	0.342	0.314	0.252	0.095	0.305	0.129	0.227
FCSRT Total	0.493	0.437	0.271	0.261	0.086	0.244	0.101	0.219
FR	0.539	0.408	0.232	0.505	0.083	0.216	0.133	0.142
FCR	0.456	0.270	0.226	0.373	0.085	0.207	0.334	0.168
CDR-sb	0.233	0.166	0.382	0.262	0.157	0.240	0.329	0.245
MMSE	0.350	0.317	0.305	0.280	0.061	0.307	0.194	0.247
<i>R. Hippocampus - R>N</i>								
ADAS-Cog Recall	0.181	0.268	0.292	0.187	0.388	0.121	0.229	0.287
ADAS-Cog Del. Recall	0.130	0.117	0.147	0.098	0.384	0.239	0.493	0.243
ADAS-Cog Recog.	0.177	0.139	0.263	0.260	0.249	0.206	0.378	0.270
ADAS-Cog Total	0.140	0.216	0.224	0.151	0.438	0.185	0.321	0.252
FCSRT Free Recall	0.119	0.166	0.200	0.175	0.486	0.136	0.315	0.285
FCSRT Total	0.110	0.105	0.223	0.169	0.440	0.153	0.372	0.289
FR	0.106	0.126	0.210	0.092	0.428	0.283	0.179	0.362
FCR	0.119	0.235	0.244	0.178	0.491	0.242	0.126	0.295
CDR-sb	0.219	0.382	0.230	0.232	0.336	0.203	0.190	0.244
MMSE	0.153	0.206	0.207	0.160	0.515	0.152	0.244	0.272

Values are percentage of network that contains selected voxels. **Red bolded** values indicate values that are at or exceed the expected value from a uniform distribution across the brain. The expected value is 0.25, or 25% of each network. ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; L, Left; R, Right

Table S6. Spatial Distribution for the top 5% of voxels

<i>Clinical/Cognitive Measure</i>	<i>ICA Network</i>							
	<i>Medial Visual</i>	<i>Lateral Visual</i>	<i>Default-Mode Network</i>	<i>Cerebellum</i>	<i>Sensorimotor</i>	<i>Auditory</i>	<i>Executive Control</i>	<i>Frontoparietal</i>
<i>Network Size (Voxels)</i>	24658	17195	17658	14738	25165	23712	26970	47532
<i>L. Hippocampus - N>R</i>								
ADAS-Cog Recall	0.041	0.056	0.085	0.049	0.022	0.074	0.018	0.060
ADAS-Cog Del. Recall	0.019	0.030	0.081	0.093	0.050	0.103	0.018	0.040
ADAS-Cog Recog.	0.031	0.048	0.087	0.007	0.064	0.074	0.010	0.064
ADAS-Cog Total	0.024	0.049	0.099	0.033	0.022	0.108	0.012	0.059
FCSRT Free Recall	0.058	0.052	0.152	0.032	0.037	0.047	0.005	0.047
FCSRT Total	0.090	0.079	0.089	0.027	0.044	0.038	0.009	0.044
FR	0.148	0.136	0.009	0.047	0.021	0.056	0.010	0.019
FCR	0.065	0.049	0.077	0.125	0.023	0.055	0.030	0.032
CDR-sb	0.041	0.025	0.170	0.029	0.011	0.026	0.032	0.068
MMSE	0.044	0.052	0.125	0.035	0.021	0.070	0.012	0.056
<i>L. Hippocampus - R>N</i>								
ADAS-Cog Recall	0.032	0.034	0.061	0.059	0.038	0.020	0.089	0.058
ADAS-Cog Del. Recall	0.112	0.060	0.044	0.043	0.033	0.010	0.076	0.033
ADAS-Cog Recog.	0.033	0.026	0.075	0.142	0.016	0.033	0.096	0.030
ADAS-Cog Total	0.038	0.043	0.040	0.074	0.034	0.022	0.107	0.046
FCSRT Free Recall	0.037	0.021	0.055	0.062	0.032	0.014	0.125	0.047
FCSRT Total	0.027	0.021	0.080	0.110	0.016	0.034	0.092	0.045
FR	0.021	0.045	0.015	0.027	0.041	0.052	0.030	0.102
FCR	0.024	0.031	0.021	0.017	0.109	0.038	0.026	0.080
CDR-sb	0.049	0.081	0.017	0.045	0.069	0.067	0.024	0.050
MMSE	0.044	0.035	0.041	0.059	0.041	0.016	0.097	0.055
<i>R. Hippocampus - N>R</i>								
ADAS-Cog Recall	0.044	0.029	0.085	0.063	0.012	0.079	0.034	0.058
ADAS-Cog Del. Recall	0.080	0.070	0.099	0.113	0.005	0.025	0.015	0.045
ADAS-Cog Recog.	0.120	0.046	0.068	0.016	0.012	0.052	0.020	0.055
ADAS-Cog Total	0.076	0.031	0.068	0.070	0.007	0.048	0.035	0.062
FCSRT Free Recall	0.115	0.067	0.060	0.031	0.020	0.041	0.018	0.051
FCSRT Total	0.173	0.100	0.037	0.020	0.009	0.034	0.008	0.035
FR	0.171	0.077	0.028	0.131	0.012	0.013	0.012	0.021
FCR	0.116	0.052	0.033	0.109	0.016	0.015	0.069	0.028
CDR-sb	0.053	0.025	0.106	0.062	0.017	0.030	0.084	0.041
MMSE	0.093	0.048	0.074	0.057	0.009	0.043	0.039	0.049
<i>R. Hippocampus - R>N</i>								
ADAS-Cog Recall	0.020	0.059	0.061	0.028	0.093	0.015	0.035	0.068
ADAS-Cog Del. Recall	0.018	0.016	0.010	0.012	0.083	0.060	0.127	0.039
ADAS-Cog Recog.	0.031	0.013	0.051	0.055	0.045	0.033	0.103	0.053
ADAS-Cog Total	0.024	0.037	0.042	0.022	0.097	0.027	0.080	0.049
FCSRT Free Recall	0.020	0.026	0.029	0.026	0.120	0.021	0.056	0.064
FCSRT Total	0.013	0.010	0.051	0.027	0.106	0.020	0.055	0.074
FR	0.019	0.024	0.035	0.008	0.100	0.042	0.017	0.090
FCR	0.016	0.051	0.053	0.039	0.114	0.035	0.027	0.056
CDR-sb	0.033	0.120	0.061	0.048	0.054	0.046	0.025	0.044
MMSE	0.023	0.039	0.035	0.021	0.112	0.031	0.044	0.063

Values are percentage of network that contains selected voxels. **Red bolded** values indicate values that are at or exceed the expected value from a uniform distribution across the brain. The expected value is 0.05, or 5% of each network. ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; L, Left; R, Right

Table S7. Spatial Distribution for the top 1% of voxels

<i>Clinical/Cognitive Measure</i>	<i>ICA Network</i>							
	<i>Medial Visual</i>	<i>Lateral Visual</i>	<i>Default-Mode Network</i>	<i>Cerebellum</i>	<i>Sensorimotor</i>	<i>Auditory</i>	<i>Executive Control</i>	<i>Frontoparietal</i>
<i>Network Size (Voxels)</i>	24658	17195	17658	14738	25165	23712	26970	47532
<i>L. Hippocampus - N>R</i>								
ADAS-Cog Recall	0.006	0.017	0.014	0.009	0.005	0.009	0.005	0.014
ADAS-Cog Del. Recall	0.004	0.009	0.023	0.019	0.011	0.020	0.002	0.005
ADAS-Cog Recog.	0.002	0.013	0.023	0.000	0.008	0.021	0.001	0.013
ADAS-Cog Total	0.003	0.014	0.017	0.007	0.005	0.024	0.003	0.010
FCSRT Free Recall	0.011	0.009	0.034	0.006	0.009	0.011	0.001	0.008
FCSRT Total	0.024	0.015	0.020	0.004	0.008	0.004	0.002	0.008
FR	0.028	0.031	0.001	0.004	0.004	0.013	0.002	0.004
FCR	0.011	0.008	0.015	0.026	0.006	0.012	0.004	0.007
CDR-sb	0.007	0.003	0.044	0.005	0.000	0.004	0.003	0.015
MMSE	0.007	0.011	0.028	0.005	0.006	0.011	0.002	0.012
<i>L. Hippocampus - R>N</i>								
ADAS-Cog Recall	0.008	0.007	0.013	0.017	0.007	0.003	0.016	0.011
ADAS-Cog Del. Recall	0.029	0.008	0.011	0.010	0.008	0.001	0.011	0.006
ADAS-Cog Recog.	0.006	0.004	0.019	0.041	0.002	0.005	0.020	0.003
ADAS-Cog Total	0.010	0.006	0.008	0.020	0.006	0.001	0.023	0.008
FCSRT Free Recall	0.005	0.002	0.020	0.012	0.003	0.001	0.034	0.007
FCSRT Total	0.005	0.005	0.025	0.035	0.003	0.004	0.016	0.005
FR	0.005	0.018	0.002	0.005	0.004	0.011	0.005	0.020
FCR	0.003	0.005	0.004	0.003	0.027	0.009	0.003	0.015
CDR-sb	0.008	0.019	0.002	0.008	0.012	0.019	0.002	0.010
MMSE	0.010	0.006	0.009	0.013	0.008	0.001	0.021	0.011
<i>R. Hippocampus - N>R</i>								
ADAS-Cog Recall	0.005	0.005	0.019	0.009	0.004	0.017	0.004	0.014
ADAS-Cog Del. Recall	0.012	0.014	0.023	0.028	0.001	0.004	0.002	0.010
ADAS-Cog Recog.	0.035	0.005	0.013	0.002	0.001	0.005	0.002	0.012
ADAS-Cog Total	0.011	0.004	0.016	0.014	0.002	0.009	0.006	0.015
FCSRT Free Recall	0.030	0.010	0.011	0.004	0.007	0.006	0.002	0.009
FCSRT Total	0.056	0.011	0.003	0.000	0.002	0.001	0.001	0.006
FR	0.048	0.011	0.002	0.022	0.001	0.001	0.001	0.004
FCR	0.025	0.008	0.003	0.029	0.003	0.001	0.012	0.007
CDR-sb	0.014	0.004	0.021	0.016	0.002	0.004	0.016	0.008
MMSE	0.020	0.007	0.018	0.009	0.003	0.005	0.009	0.010
<i>R. Hippocampus - R>N</i>								
ADAS-Cog Recall	0.002	0.009	0.011	0.004	0.021	0.003	0.004	0.017
ADAS-Cog Del. Recall	0.003	0.003	0.001	0.001	0.017	0.015	0.027	0.006
ADAS-Cog Recog.	0.009	0.002	0.014	0.014	0.006	0.006	0.022	0.008
ADAS-Cog Total	0.006	0.005	0.007	0.002	0.021	0.005	0.015	0.011
FCSRT Free Recall	0.001	0.006	0.005	0.006	0.024	0.002	0.013	0.013
FCSRT Total	0.001	0.002	0.010	0.008	0.019	0.003	0.004	0.020
FR	0.003	0.004	0.007	0.000	0.017	0.006	0.002	0.022
FCR	0.002	0.009	0.009	0.008	0.031	0.003	0.002	0.012
CDR-sb	0.006	0.032	0.011	0.010	0.009	0.010	0.006	0.006
MMSE	0.005	0.006	0.006	0.004	0.023	0.006	0.004	0.016

Values are percentage of network that contains selected voxels. **Red bolded** values indicate values that are at or exceed the expected value from a uniform distribution across the brain. The expected value is 0.01, or 1% of each network. ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; L, Left; R, Right

Table S8. Chi-Square Statistics for the top 25% of Voxel Radar Graph Shape Analysis

	ADAS-Cog Recall	ADAS-Cog Del. Recall	ADAS-Cog Recog.	ADAS-Cog Total	FCSRT Free Recall	FCSRT Total	FR	FCR	CDR-sb	MMSE	Expected
<i>L. Hippocampus - N>R</i>											
ADAS-Cog Recall		3781.8	2809.3	529.4	1305.6	1558.5	6331.6	3708.0	4590.7	336.3	4880.6
ADAS-Cog Del. Recall			4304.6	2555.5	4785.2	7760.0	14594.8	9682.1	8149.0	4074.9	11272.6
ADAS-Cog Recog.				2279.6	1884.1	2838.2	11387.2	10049.2	6885.8	3034.2	6530.1
ADAS-Cog Total					1203.0	2510.3	9274.4	6534.4	5815.1	315.5	7092.2
FCSRT Free Recall						1182.6	8579.2	6867.7	6553.0	939.3	9075.6
FCSRT Total							4313.9	5428.0	7598.4	1941.7	7400.2
FR								4230.8	13645.3	8346.5	17134.7
FCR									5218.2	5386.8	7224.5
CDR-sb										5292.4	6639.1
MMSE											7941.5
<i>L. Hippocampus - R>N</i>											
ADAS-Cog Recall		3600.2	3418.8	367.4	604.9	903.2	4608.4	6126.5	7110.7	214.7	5833.8
ADAS-Cog Del. Recall			4919.6	2621.2	3370.8	5231.6	10652.1	9990.5	7001.7	3016.9	7293.8
ADAS-Cog Recog.				2202.8	2410.9	1650.2	11757.9	14398.9	10095.8	3711.1	10154.6
ADAS-Cog Total					527.5	1025.9	6493.7	7821.7	6558.8	364.0	6077.2
FCSRT Free Recall						595.1	7089.0	8464.2	7512.0	388.5	7364.8
FCSRT Total							6748.7	9520.0	9239.1	1307.2	8488.9
FR								1451.7	6723.2	5809.2	8025.2
FCR									4308.8	6603.2	8437.2
CDR-sb										6724.3	3829.0
MMSE											6367.5
<i>R. Hippocampus - N>R</i>											
ADAS-Cog Recall		4517.8	2347.2	1107.1	1882.9	4377.8	6509.6	4514.4	2731.5	1073.2	4877.5
ADAS-Cog Del. Recall			2855.4	2137.1	2156.9	2001.7	3019.6	6309.2	8167.8	2881.2	13537.9
ADAS-Cog Recog.				1474.5	497.8	1094.1	4524.4	4790.9	4834.4	1446.0	5755.2
ADAS-Cog Total					898.0	2015.8	3971.7	3430.8	4355.7	217.3	6235.9
FCSRT Free Recall						666.3	3235.9	4091.3	5454.1	771.5	8108.4
FCSRT Total							2209.0	4824.8	8576.0	2107.9	13528.1
FR								3395.6	10703.8	4442.0	20452.3
FCR									4495.7	3096.8	10096.5
CDR-sb										3756.0	3318.0
MMSE											5799.3
<i>R. Hippocampus - R>N</i>											
ADAS-Cog Recall		6170.1	3219.1	1355.1	1701.9	2901.9	4248.1	2519.4	1499.2	1051.1	4668.2
ADAS-Cog Del. Recall			3125.8	2204.2	2814.4	1800.4	5490.0	7893.8	7879.8	4144.8	12922.3
ADAS-Cog Recog.				2369.7	3163.3	2366.7	5787.3	6469.4	4202.9	4038.7	3429.5
ADAS-Cog Total					541.5	1046.9	3259.8	2820.3	2752.6	582.7	6413.6
FCSRT Free Recall						470.3	3239.8	3174.3	4348.1	490.2	10225.0
FCSRT Total							3511.6	4703.0	6030.9	1627.0	10239.5
FR								1785.5	5790.0	2834.3	10928.0
FCR									2838.9	1778.4	9901.5
CDR-sb										2795.5	2694.2
MMSE											9753.4
<i>L/R Hippocampus</i>											
N>R	1685.0	11796.9	5137.2	4910.4	4690.8	2977.6	1760.3	2382.7	725.3	3908.1	
R>N	3386.2	9641.4	3495.6	3616.3	5578.7	5028.2	1214.1	1492.4	1318.2	4577.3	
<i>N>R/R>N</i>											
L. Hippocampal Seed	9352.3	18110.1	15096.1	11481.3	14466.8	13875.5	19593.8	14183.6	8954.4	12808.3	
R. Hippocampal Seed	8752.7	24411.1	7858.8	12657.9	16414.1	20974.1	24791.2	17384.1	4887.6	13566.2	

All Chi-square statistics are significant ($p < 0.001$) after bonferroni correction (780 tests). The minimum statistic that would be significant at $p < 0.001$ is 39.9584 for 7 degrees of freedom. Values are percentage of network that contains selected voxels. Red bolded values indicate values that are at or exceed the expected value from a uniform distribution across the brain. The expected value is 0.25, or 25% of each network. ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; L, Left; R, Right

Table S9. Chi-Square Statistics for the top 5% of Voxel Radar Graph Shape Analysis

	ADAS-Cog Recall	ADAS-Cog Del. Recall	ADAS-Cog Recog.	ADAS-Cog Total	FCSRT Free Recall	FCSRT Total	FR	FCR	CDR-sb	MMSE	Expected
<i>L. Hippocampus - N>R</i>											
ADAS-Cog Recall		1116.6	1079.9	365.7	969.0	1252.1	4291.9	1197.0	1550.8	215.7	1802.9
ADAS-Cog Del. Recall			1702.6	1035.1	2170.0	2856.4	5881.9	1495.3	3431.9	1499.9	3491.0
ADAS-Cog Recog.				957.2	1255.2	1550.8	5916.2	3201.3	2643.0	1019.3	2635.8
ADAS-Cog Total					1351.4	2159.0	5628.6	2296.7	2119.0	399.9	4104.9
FCSRT Free Recall						624.0	4600.4	1956.3	1460.1	417.6	5003.2
FCSRT Total							2611.8	1805.0	2501.3	1088.8	2768.2
FR								3413.6	7419.5	4738.2	10091.8
FCR									2739.4	1605.6	2938.8
CDR-sb										1142.5	7031.4
MMSE											3475.3
<i>L. Hippocampus - R>N</i>											
ADAS-Cog Recall		1771.7	1277.7	247.8	322.8	739.5	2469.1	2800.5	2768.5	143.3	1693.1
ADAS-Cog Del. Recall			2710.4	1437.8	1775.5	2817.9	4829.1	4879.0	3126.8	1286.3	3513.5
ADAS-Cog Recog.				963.9	1121.3	232.4	5238.0	5963.3	4495.2	1509.1	5322.8
ADAS-Cog Total					258.1	775.2	3166.9	3619.9	2816.6	141.7	2584.1
FCSRT Free Recall						792.2	3969.4	4223.8	4067.9	267.4	4218.3
FCSRT Total							4023.6	4904.6	4117.0	1104.7	3636.4
FR								1065.5	1614.2	2691.0	3855.4
FCR									1534.8	2922.3	4057.4
CDR-sb										2676.8	1434.9
MMSE											1953.0
<i>R. Hippocampus - N>R</i>											
ADAS-Cog Recall		1816.7	1613.4	466.9	1771.7	4333.1	5303.4	3338.2	1318.6	849.4	1972.9
ADAS-Cog Del. Recall			1829.5	1069.4	1356.1	2537.6	2111.0	2115.5	2214.7	879.7	4644.0
ADAS-Cog Recog.				975.3	241.3	1179.9	3320.2	2891.7	2638.0	667.8	4134.2
ADAS-Cog Total					1048.5	2986.5	3611.1	2043.3	1215.6	225.7	1898.3
FCSRT Free Recall						862.9	2414.2	2225.1	2547.2	590.6	3405.0
FCSRT Total							1704.7	2973.4	5007.6	2046.3	10773.7
FR								1512.0	5084.7	2771.8	12535.1
FCR									1875.3	1417.7	5088.2
CDR-sb										1089.9	2798.9
MMSE											2079.9
<i>R. Hippocampus - R>N</i>											
ADAS-Cog Recall		3595.8	2296.9	875.2	669.6	824.5	1163.1	373.0	1419.9	417.3	2587.2
ADAS-Cog Del. Recall			1649.6	1220.0	1903.2	2446.0	3614.9	3221.4	4508.3	2157.3	5826.5
ADAS-Cog Recog.				1025.9	1748.5	1618.0	3401.6	2538.9	2903.1	1959.2	2362.3
ADAS-Cog Total					375.6	785.9	1931.0	947.8	2182.7	416.5	2476.0
FCSRT Free Recall						331.0	1149.6	681.8	2740.1	163.4	4000.7
FCSRT Total							1152.7	1010.7	3263.3	584.6	3966.1
FR								1021.6	2880.1	767.8	4692.7
FCR									1296.9	327.3	3117.1
CDR-sb										1885.1	2249.3
MMSE											2978.1
<i>L/R Hippocampus</i>											
N>R	396.1	3339.6	2492.6	2094.5	1538.4	1731.4	1802.9	1685.4	1473.3	1453.0	
R>N	1610.8	4547.5	1382.3	1374.9	2627.6	3444.7	1198.5	703.3	822.9	1940.0	
<i>N>R/R>N</i>											
L. Hippocampal Seed	2321.2	5171.5	5525.5	4310.1	4681.7	4323.9	6384.7	4779.8	4476.7	3630.7	
R. Hippocampal Seed	3292.7	8587.9	4084.9	3804.5	4738.0	8459.4	9300.0	5416.1	2820.2	3894.7	

All Chi-square statistics are significant ($p < 0.001$) after bonferroni correction (780 tests). The minimum statistic that would be significant at $p < 0.001$ is 39.9584 for 7 degrees of freedom. Values are percentage of network that contains selected voxels. Red bolded values indicate values that are at or exceed the expected value from a uniform distribution across the brain. The expected value is 0.05, or 5% of each network. ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; L, Left; R, Right

Table S10. Chi-Square Statistics for the top 1% of Voxel Radar Graph Shape Analysis

	ADAS-Cog Recall	ADAS-Cog Del. Recall	ADAS-Cog Recog.	ADAS-Cog Total	FCSRT Free Recall	FCSRT Total	FR	FCR	CDR-sb	MMSE	Expected
<i>L. Hippocampus - N>R</i>											
ADAS-Cog Recall		527.2	417.0	253.7	444.9	510.4	985.3	336.2	623.7	164.1	362.1
ADAS-Cog Del. Recall			478.4	271.3	339.7	819.9	1287.8	269.3	1056.7	378.5	1003.1
ADAS-Cog Recog.				165.8	431.8	853.2	1394.7	790.7	821.1	254.6	1148.4
ADAS-Cog Total					451.6	807.9	1099.4	473.1	881.3	245.6	955.8
FCSRT Free Recall						303.2	1095.1	405.9	515.3	108.2	1299.6
FCSRT Total							610.3	516.1	818.8	369.0	1046.6
FR								940.4	1961.1	1114.3	2191.4
FCR									901.8	378.6	600.8
CDR-sb										369.3	2832.4
MMSE											846.0
<i>L. Hippocampus - R>N</i>											
ADAS-Cog Recall		478.4	473.9	93.9	369.7	331.3	798.4	965.5	940.9	64.0	402.9
ADAS-Cog Del. Recall			999.9	440.8	936.6	887.7	1310.7	1376.7	1098.7	419.4	1201.2
ADAS-Cog Recog.				456.1	465.4	61.6	1727.4	1967.9	1731.9	655.2	2335.1
ADAS-Cog Total					301.6	415.6	1091.5	1277.0	1168.2	46.0	864.0
FCSRT Free Recall						418.5	1615.1	1798.5	1861.8	328.9	2233.5
FCSRT Total							1495.4	1726.7	1542.1	545.3	1840.7
FR								631.1	368.1	918.2	964.9
FCR									502.0	1035.7	1265.9
CDR-sb										1053.2	632.0
MMSE											575.5
<i>R. Hippocampus - N>R</i>											
ADAS-Cog Recall		619.7	897.3	172.5	744.5	2025.0	1936.6	1186.8	628.1	449.6	630.0
ADAS-Cog Del. Recall			762.3	389.1	705.3	1513.5	1028.0	681.8	480.1	433.1	1311.3
ADAS-Cog Recog.				561.4	212.0	510.3	765.6	819.7	778.2	369.9	2201.8
ADAS-Cog Total					561.3	1628.3	1418.8	678.6	309.0	197.8	494.7
FCSRT Free Recall						547.9	747.2	686.5	760.3	279.9	1282.4
FCSRT Total							372.0	1008.3	1588.9	1087.1	6146.1
FR								524.0	1271.8	1027.5	4622.9
FCR									410.9	436.3	1488.2
CDR-sb										159.0	747.6
MMSE											544.7
<i>R. Hippocampus - R>N</i>											
ADAS-Cog Recall		1131.2	1006.1	335.9	216.6	128.4	179.5	147.1	791.9	102.3	965.3
ADAS-Cog Del. Recall			700.1	386.9	679.4	1256.2	1212.2	1241.6	1139.5	909.7	1502.0
ADAS-Cog Recog.				497.8	751.3	963.9	1194.3	1188.5	808.8	905.6	665.6
ADAS-Cog Total					165.0	494.5	493.1	467.9	757.0	232.1	633.5
FCSRT Free Recall						292.0	511.3	326.9	980.5	255.2	1054.9
FCSRT Total							202.6	268.9	1104.8	177.9	1215.4
FR								398.5	1123.3	158.4	1387.6
FCR									826.8	151.0	1545.8
CDR-sb										787.5	988.4
MMSE											922.2
<i>L/R Hippocampus</i>											
N>R	189.9	731.6	1281.4	575.3	513.8	785.3	836.6	565.4	703.4	405.4	
R>N	666.6	1382.7	409.0	580.8	1038.0	1409.8	559.1	203.1	358.1	749.7	
<i>N>R/R>N</i>											
L. Hippocampal Seed	401.4	1183.9	1813.7	1263.8	1359.6	1154.1	1020.2	994.2	1448.8	863.3	
R. Hippocampal Seed	686.3	2184.5	1139.1	787.9	1270.0	2416.9	2446.5	1554.8	859.2	855.3	

All Chi-square statistics are significant ($p < 0.001$) after bonferroni correction (780 tests). The minimum statistic that would be significant at $p < 0.001$ is 39.9584 for 7 degrees of freedom. Values are percentage of network that contains selected voxels. Red bolded values indicate values that are at or exceed the expected value from a uniform distribution across the brain. The expected value is 0.01, or 1% of each network. ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; L, Left; R, Right

Table S11. Significant N>R Correlation with Performance Difference Between Seeds

<i>Clinical/Cognitive Measure</i>	<i>Cluster Size</i>	<i>Peak Z-difference</i>	<i>Peak X,Y,Z</i>	<i>Region</i>
<i>Left>Right</i>				
<i>ADAS-Cog Recog.</i>				
	2522	3.97	-22,-58,54	L. Superior Parietal Lobule
		3.76	-10,-40,30	L. Posterior Cingulate Cortex
		3.74	-24,-32,48	L. Postcentral Gyrus
		3.70	-22,-40,46	L. Postcentral Gyrus
		3.62	-44,-70,26	L. Angular Gyrus
		3.47	-20,-14,58	L. Precentral Gyrus
		3.45	-20,-48,46	L. Superior Parietal Lobule
		3.41	-20,-28,58	L. Precentral Gyrus
		3.40	24,-60,40	R. Superior Occipital Gyrus
		3.38	0,-46,36	L. Middle Cingulate Cortex
		3.28	-44,-68,38	L. Angular Gyrus
		3.24	-30,-36,58	L. Postcentral Gyrus
		3.22	12,-58,48	R. Precuneus
		3.09	-6,-10,46	L. Middle Cingulate Cortex
		3.09	-66,-48,18	L. Superior Temporal Sulcus
		3.03	-56,-58,24	L. Angular Gyrus
		3.02	8,-10,38	R. Middle Cingulate Cortex
		3.02	-48,-58,20	L. Middle Cingulate Cortex
		2.98	-26,-56,38	L. Inferior Parietal Lobule
		2.90	0,-44,48	L. Middle Cingulate Cortex
		2.85	6,-20,52	R. Supplementary Motor Area
		2.80	-32,-56,28	L. Angular Gyrus
		2.64	-4,4,56	L. Supplementary Motor Area
		2.57	-6,4,40	L. Middle Cingulate Cortex
		2.52	4,-52,46	R. Precuneus
		2.44	2,-22,44	R. Middle Cingulate Cortex
		2.38	12,-20,36	R. Middle Cingulate Cortex
	827	3.83	40,42,32	R. Middle Frontal Gyrus
		3.66	36,24,52	R. Middle Frontal Gyrus
		3.61	32,32,46	R. Middle Frontal Gyrus
		3.01	52,26,28	R. Inferior Frontal Gyrus - pars triangularis
	246	3.55	14,28,62	R. Medial Superior Frontal Gyrus
		2.74	26,14,66	R. Superior Frontal Gyrus
		2.68	12,40,52	R. Medial Superior Frontal Gyrus
	205	3.47	10,-6,58	R. Supplementary Motor Area
		2.60	20,-18,66	R. Precentral Gyrus
	194	3.08	38,-32,38	R. Supramarginal Gyrus
		2.74	22,-40,40	R. Middle Cingulate Cortex
	757	2.99	-22,-28,14	L. Thalamus
		2.95	-40,-18,36	L. Postcentral Gyrus
		2.95	-14,-40,10	L. Hippocampus

	2.94	-42,-32,46	L. Postcentral Gyrus
	2.92	-30,-32,14	L. Heschl's Gyrus
	2.65	-32,-22,22	L. Insula
	2.60	-56,-26,46	L. Inferior Parietal Lobule
<i>ADAS-Cog Total</i>			
670	3.78	-10,-40,28	L. Posterior Cingulate Cortex
	3.26	-24,-58,38	L. Middle Occipital Gyrus
	3.14	-20,-56,50	L. Superior Parietal Lobule
	3.00	-24,-34,46	L. Postcentral Gyrus
	2.94	-14,-40,14	L. Posterior Cingulate Cortex
	2.86	-20,-26,14	L. Thalamus
	2.76	-14,-38,38	L. Middle Cingulate Cortex
	2.74	0,-46,36	L. Middle Cingulate Cortex
	2.70	-30,-56,28	L. Angular Gyrus
202	3.15	-46,-58,22	L. Middle Temporal Gyrus
	2.79	-46,-48,0	L. Middle Temporal Gyrus
	2.73	-46,-56,8	L. Middle Temporal Gyrus
305	2.89	28,-40,22	White Matter
	2.84	26,-48,24	R. Precuneus
	2.79	16,-40,14	R. Posterior Cingulate Cortex
	2.77	22,-56,22	R. Precuneus
	2.72	22,-58,12	R. Calcarine Sulcus
<i>FCSRT Free</i>			
176	3.36	26,30,48	R. Superior Frontal Gyrus
368	2.94	30,-36,22	White Matter
	2.93	18,-38,18	R. Posterior Cingulate Cortex
	2.88	22,-54,20	R. Precuneus
	2.40	28,-64,16	R. Calcarine Sulcus
<i>FCSRT Total</i>			
420	3.83	32,32,46	R. Middle Frontal Gyrus
	3.62	40,42,32	R. Middle Frontal Gyrus
	3.04	34,22,52	R. Middle Frontal Gyrus
183	3.20	16,20,58	R. Superior Frontal Gyrus
	3.02	12,32,60	R. Medial Superior Frontal Gyrus
	2.69	26,14,66	R. Superior Frontal Gyrus
207	3.18	-42,-36,-12	L. Inferior Temporal Gyrus
	3.17	-46,-44,-4	L. Middle Temporal Gyrus
	3.06	-36,-26,-22	L. Fusiform Gyrus
198	3.13	-22,-28,48	L. Precentral Gyrus
	2.74	-22,-40,46	L. Postcentral Gyrus
	2.71	-18,-28,56	L. Precentral Gyrus
<i>CDR-sb</i>			
195	3.81	34,-38,48	R. Supramarginal Gyrus

		2.93	38,-48,52	R. Inferior Parietal Lobule
<i>MMSE</i>				
	319	3.11	22,-54,22	R. Precuneus
		3.11	16,-42,18	R. Posterior Cingulate
		2.78	28,-40,22	White Matter
<i>Right>Left</i>				
<i>ADAS-Cog Recall</i>				
	569	4.15	12,-18,-26	R. Parahippocampal Gyrus
		3.87	-12,-16,-26	L. Parahippocampal Gyrus
		3.42	-18,-22,-24	L. Parahippocampal Gyrus
		3.31	-4,-14,-30	Brainstem
		3.27	18,-2,-14	R. Amygdala
		3.06	26,0,-40	R. Fusiform Gyrus
		2.66	20,-8,-24	R. Parahippocampal Gyrus
		2.63	18,6,-14	R. Olfactory Sulcus
<i>ADAS-Cog Total</i>				
	516	4.25	12,-18,-28	R. Parahippocampal Gyrus
		4.09	-14,-16,-26	L. Parahippocampal Gyrus
		3.41	-2,-12,-32	Brainstem
		3.26	22,-2,-36	R. Parahippocampal Gyrus
		2.99	18,-10,-26	R. Parahippocampal Gyrus
<i>FCSRT Free</i>				
	292	4.99	24,14,-24	R. Inferior Frontal Gyrus - orbital part
		3.78	18,38,-16	R. Superior Frontal Gyrus - orbital part
		3.39	20,8,-30	R. Parahippocampal Gyrus
		3.10	34,40,-22	R. Inferior Frontal Gyrus - orbital part
		2.85	18,30,-14	R. Superior Frontal Gyrus - orbital part
	1429	4.88	-28,34,-20	R. Middle Frontal Gyrus - orbital part
		4.42	-24,48,-18	R. Middle Frontal Gyrus - orbital part
		4.32	-24,18,-22	R. Middle Frontal Gyrus - orbital part
		4.10	-18,26,-10	L. Superior Frontal Gyrus - orbital part
		3.80	-10,40,-4	L. Anterior Cingulate Cortex
		3.62	4,20,-6	R. Olfactory Sulcus
		3.59	6,52,-8	L. Middle Frontal Gyrus - orbital part
		3.58	-10,50,-8	L. Middle Frontal Gyrus - orbital part
		2.99	14,18,-10	R. Caudate
		2.88	14,8,-2	R. Pallidum
		2.70	-18,12,-10	L. Putamen
		2.65	-12,6,-2	L. Pallidum
		2.63	4,40,-6	L. Middle Frontal Gyrus - orbital part
		2.63	-16,10,-18	L. Olfactory Sulcus
		2.60	12,26,-10	R. Gyrus Rectus
	655	3.97	-14,-12,-26	L. Parahippocampal Gyrus

	3.58	-12,-34,-32	L. Cerebellum
	3.48	10,-16,-28	Brainstem
	3.45	-12,-22,-30	L. Parahippocampal Gyrus
	3.04	-4,-12,-28	Brainstem
	2.57	18,-10,-26	R. Parahippocampal Gyrus
195	3.85	-10,-88,44	L. Superior Occipital Gyrus
	3.60	-10,-94,32	L. Cuneus
	2.74	-18,-98,30	L. Superior Occipital Gyrus
	2.63	-22,-86,48	L. Superior Occipital Gyrus
204	3.64	-2,-72,-6	L. Cerebellum

FCSRT Total

288	4.64	-14,-16,-26	L. Parahippocampal Gyrus
	3.16	-14,-34,-34	L. Cerebellum
199	4.04	10,-18,-28	Brainstem
	2.83	26,-4,-14	R. Amygdala

FCR

178	3.80	18,6,-4	R. Pallidum
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ADAS-Cog Del., ADAS-Cog Delayed Recall Score; ADAS-Cog Recog., ADAS-Cog Recognition Score; FCSRT Free Recall, Free-Cued and Selective Reminding Test Free Recall Score; FCSRT Total, Free-Cued and Selective Reminding Test Total Score; FR, Post-scan Free Recall; FCR, Post-scan Forced-Choice Recognition; CDR-sb, CDR Sum-of-Boxes; MMSE, Mini-Mental State Examination; Med., Medial; R., Right; L., Left
