Supplementary Materials:

Supplementary Tables S1-5

Supplementary Figure S1-S4

Supplementary References

Table S1: Dementia Studies

Reference	Imaging Modality	Contrast
Alzheimer's Disease		
Baron et al, 2001 (Baron *et al.*, 2001)	MRI, atrophy	AD vs. controls
Boxer et al, 2003a (a L. Boxer *et al.*, 2003)	MRI, atrophy	AD vs. controls
Boxer et al, 2003b (A. L. Boxer *et al.*, 2003)	MRI, atrophy	AD vs. controls
Bozzali et al, 2006 (Bozzali *et al.*, 2006)	MRI, atrophy	AD vs. controls
Grossman et al, 2004 (Grossman *et al.*, 2004)	MRI, atrophy	AD vs. controls
Ohnishi et al, 2001 (Ohnishi *et al.*, 2001)	MRI, atrophy	AD vs. controls
Matsuda et al, 2002 (Matsuda *et al.*, 2002)	MRI, atrophy	AD vs. controls
Zahn et al, 2005 (Zahn *et al.*, 2005)	MRI, atrophy	AD vs. controls
Benoit et al, 2002 (Benoit *et al.*, 2002)	SPECT, perfusion	AD vs. controls
Ebmeier et al, 1998 (Ebmeier *et al.*, 1998)	SPECT, perfusion	AD vs. controls
Ishii et al, 1997 (Ishii *et al.*, 1997)	SPECT, perfusion	AD vs. controls
Kogure et al, 2000 (Kogure *et al.*, 2000)	SPECT, perfusion	AD vs. controls
Lee et al, 2003 (Lee *et al.*, 2003)	SPECT, perfusion	AD vs. controls
Matsuda et al, 2009 (Matsuda *et al.*, 2002)	SPECT, perfusion	AD vs. controls

Nakano et al, 2005 (Nakano *et al.*, 2005)	SPECT, perfusion	AD vs. controls
Sakamoto et al, 2003 (Sakamoto *et al.*, 2002)	SPECT, perfusion	AD vs. controls
Ibanez et al, 1998 (Ibáñez *et al.*, 1998)	PET, metabolism	AD vs. controls
Ishii et al, 1998 (Ishii *et al.*, 1998)	PET, metabolism	AD vs. controls
Ishii et al, 2005 (Ishii *et al.*, 2005)	PET, metabolism	AD vs. controls
Kalpouzos et al, 2005 (Kalpouzos *et al.*, 2005)	PET, metabolism	AD vs. controls
Kim et al, 2005 (Kim *et al.*, 2005)	PET, metabolism	AD vs. controls
Mosconi et al, 2004 (Mosconi *et al.*, 2004)	PET, metabolism	AD vs. controls
Sakamoto et al, 2002 (Sakamoto *et al.*, 2002)	PET, metabolism	AD vs. controls
Salmon et al, 2000 (Salmon *et al.*, 2000)	PET, metabolism	AD vs. controls
Zahn et al, 2005 (Zahn *et al.*, 2005)	PET, metabolism	AD vs. controls
Frontotemporal Dementia		
Amanzio et al, 2016 (Amanzio *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Baez et al, 2016a (Baez, Kanske, *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Baez et al, 2016b (Baez, Morales, *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Boccardi et al, 2005 (Boccardi *et al.*, 2005)	MRI, atrophy	FTD vs. controls

Dermody et al, 2016 (Dermody *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Flannagan et al, 2016 (Flanagan *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Grossman et al, 2004 (Grossman *et al.*, 2004)	MRI, atrophy	FTD vs. controls
Irish et al, 2013 (Irish *et al.*, 2013)	MRI, atrophy	FTD vs. controls
Irish et al, 2014 (Irish *et al.*, 2014)	MRI, atrophy	FTD vs. controls
Irish et al, 2016 (Irish *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Kanda et al, 2008 (Kanda *et al.*, 2008)	MRI, atrophy	FTD vs. controls
Kipps et al, 2009 (Kipps *et al.*, 2009)	MRI, atrophy	FTD vs. controls
Luis et al, 2016 (Luis *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Mandelli et al, 2016 (Mandelli, Vitali, *et al.*, 2016)	MRI, atrophy	FTD vs. controls
Massimo et al, 2013 (Massimo *et al.*, 2013)	MRI, atrophy	FTD vs. controls
Ossenkoppele et al, 2015 (Ossenkoppele *et al.*, 2015)	MRI, atrophy	FTD vs. controls
Pardini et al, 2009 (Pardini *et al.*, 2009)	MRI, atrophy	FTD vs. controls
Tu et al, 2015 (Tu *et al.*, 2015)	MRI, atrophy	FTD vs. controls
Whitwell et al, 2011 (Whitwell *et al.*, 2011)	MRI, atrophy	FTD vs. controls
Wong et al, 2016 (Wong *et al.*, 2016)	MRI, atrophy	FTD vs. controls

Zamboni et al, 2008 (Zamboni *et al.*, 2008)	MRI, atrophy	FTD vs. controls
Corticobasal Syndrome		
Boxer et al, 2006 (Boxer *et al.*, 2006)	MRI, atrophy	CBS vs. controls
Garraux et al, 2000 (Garraux *et al.*, 2000)	MRI, atrophy	CBS vs. controls
Gross et al, 2010 (Gross *et al.*, 2010)	MRI, atrophy	CBS vs. controls
Grossman et al, 2004 (Grossman *et al.*, 2004)	MRI, atrophy	CBS vs. controls
Huey et al, 2009 (Huey *et al.*, 2009)	MRI, atrophy	CBS vs. controls
Hosaka et al, 2002 (Hosaka *et al.*, 2002)	MRI, atrophy	CBS vs. controls
Juh et al, 2005 (Juh *et al.*, n.d.)	MRI, atrophy	CBS vs. controls
Lee et al, 2011 (Lee *et al.*, 2011)	MRI, atrophy	CBS vs. controls
McMillan et al, 2016 (McMillan *et al.*, 2016)	MRI, atrophy	CBS vs. controls
Morgan et al, 2011 (Morgan *et al.*, 2011)	MRI, atrophy	CBS vs. controls
Pardini et al, 2009 (Pardini *et al.*, 2009)	MRI, atrophy	CBS vs. controls
Wolpe et al, 2014 (Wolpe *et al.*, 2014)	MRI, atrophy	CBS vs. controls
Progressive Non-Fluent Aphasia		
Gorno-Tempini et al, 2004 (Gorno-Tempini *et al.*, 2004)	MRI, atrophy	PNFA vs. controls
Gorno-Tempini et al, 2006 (Gorno-Tempini *et al.*, 2006)	MRI, atrophy	PNFA vs. controls

Grossman et al, 2004 (Grossman *et al.*, 2004)	MRI, atrophy	PNFA vs. controls
Hu et al, 2010 (Hu *et al.*, 2010)	MRI, atrophy	PNFA vs. controls
Nestor et al, 2003 (Nestor *et al.*, 2003)	MRI, atrophy	PNFA vs. controls
Pereira et al, 2009 (Pereira *et al.*, 2009)	MRI, atrophy	PNFA vs. controls
Wilson et al, 2010 (Wilson *et al.*, 2010)	MRI, atrophy	PNFA vs. controls
Zahn et al, 2005 (Zahn *et al.*, 2005)	MRI, atrophy	PNFA vs. controls
AD with Delusions		
Bruen et al, 2008(Bruen *et al.*, 2008)	MRI, atrophy	AD with vs. without delusions
Fukuhara et al, 2001(Fukuhara *et al.*, 2001)	SPECT, perfusion	AD with vs. without delusions
Lee et al, 2016 (Lee *et al.*, 2016)	MRI, atrophy	AD with vs. without delusions
Mega et al, 2000 (Mega *et al.*, 2000)	SPECT, perfusion	AD with vs. without delusions
Moran et al, 2008 (Moran *et al.*, 2008)	SPECT, perfusion	AD with vs. without delusions
Nakaaki et al, 2013 (Nakaaki *et al.*, 2013)	MRI, atrophy	AD with vs. without delusions
Nakatsuka et al, 2013 (Nakatsuka *et al.*, 2013)	SPECT, perfusion	AD with vs. without delusions
Serra et al, 2010 (Serra *et al.*, 2010)	MRI, atrophy	AD with vs. without delusions
Staff et al, 2000 (Staff *et al.*, 2000)	SPECT, perfusion	AD with vs. without delusions
Matsuoka et al, 2010	SPECT, perfusion	AD with vs. without delusions

(Matsuoka *et al.*, 2010)		
Nakano et al, 2006 (Nakano *et al.*, 2006)	SPECT, perfusion	AD with vs. without delusions
Sultzer et al, 2014 (Sultzer *et al.*, 2014)	PET, metabolism	AD with vs. without delusions

Table S2: Shared network localization across PET, SPECT, and MRI studies in AD

Voxels	Overlap	X	Y	Z	Region
1769	26/26	-2	-54	14	Precuneus / Posterior Cingulate Cortex
449	25/26	-48	-64	24	Angular Gyrus
355	25/26	60	-60	24	Angular Gyrus
240	25/26	0	44	-10	Paracingulate Gyrus
145	25/26	56	-2	-20	Middle Temporal Gyrus
130	25/26	-56	-4	-22	Middle Temporal Gyrus
62	25/26	-18	28	44	Superior frontal gyrus
18	25/26	28	-22	-16	Hippocampus
18	25/26	-24	-22	-20	Hippocampus

Table S3: Distinct network localization for AD, FTD, CBS, and PNFA

Voxels	Cluster P (FWE)	Max T	X	Y	Z	Region
AD vs. non-AD						
24650	<0.001	6.45	36	-44	16	Supra-marginal Gyrus
		6.28	-30	-32	-14	Parahippocampal Gyrus
		6.22	30	-32	-14	Parahippocampal Gyrus
FTD vs. non-FTD						
2847	<0.001	4.70	32	-14	-10	Right putamen / amygdala
		4.53	18	36	-10	Frontal Pole / Orbitofrontal Cortex
		4.43	24	52	-16	Frontal Pole
CBS vs. non-CBS						
18232	<0.001	6.73	6	-40	76	Post-central Gyrus, Precuneus
		6.37	48	-26	50	Post-central, supramarginal gyrus
		6.32	42	-24	42	Post-central, supramarginal gyrus
3367	<0.001	6.07	-18	-12	48	Pre-central, superior frontal gyrus
		5.83	-26	-12	62	Pre-central, superior frontal gyrus
		5.79	-24	-18	52	Pre-central, superior frontal gyrus
PNFA vs. non-PNFA						

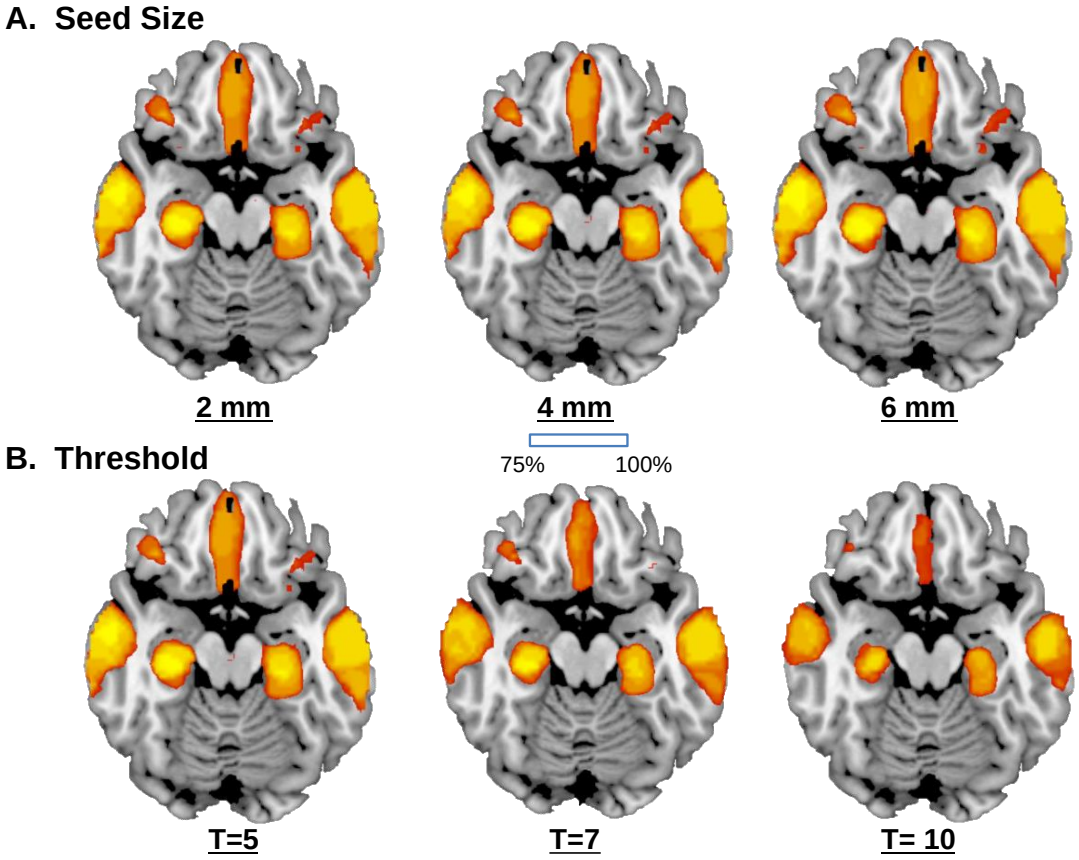
2731	0.003	6.06	-54	16	2	Left inferior frontal gyrus
		5.26	-38	36	-2	Left orbitofrontal, inferior frontal gyrus
		5.08	-52	20	-14	Left temporal pole, orbitofrontal, inferior frontal gyrus

Cortical / subcortical gray voxels showing significantly stronger connectivity to neuroimaging findings in AD, FTD, CBS, or PNFA vs. all other dementia syndromes. Peak voxel coordinates and T-values are reported for up to 3 local maxima more than 8mm apart for each cluster.

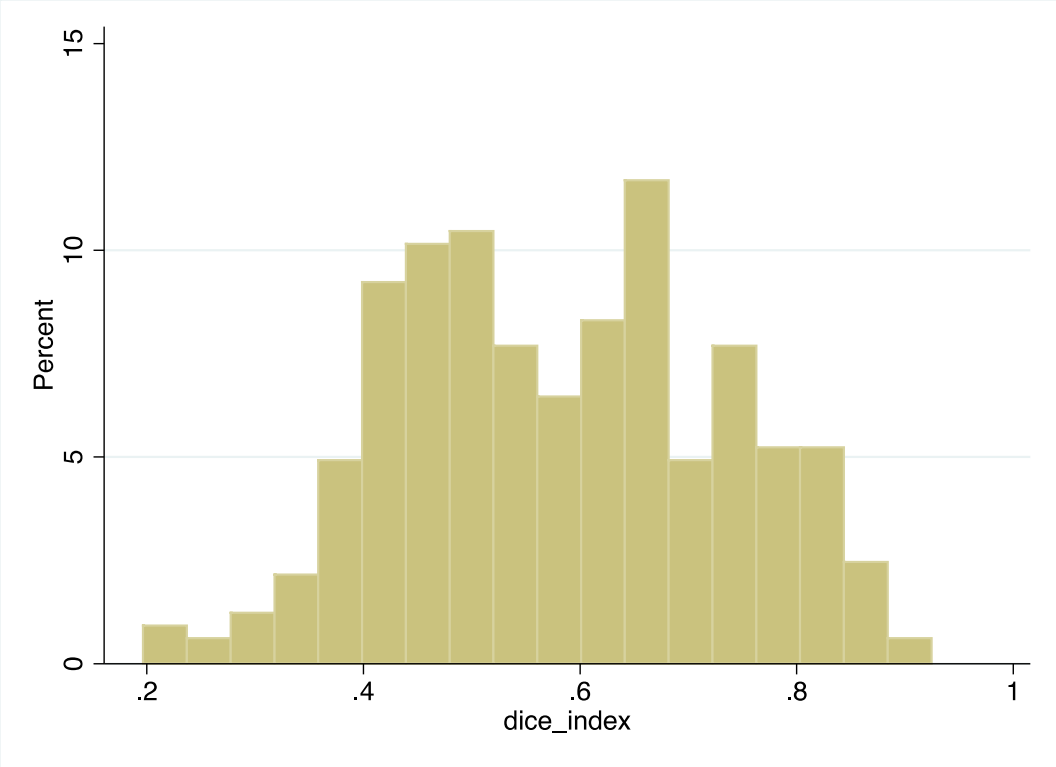
Table S5: Network localization of delusions vs. no delusions in AD patients

Voxels	Cluster P (FWE)	Max T	X	Y	Z	Region
7305	<0.001	6.83	50	2	52	Right precentral, middle frontal gyrus
		6.74	42	-2	60	Right precentral, Middle frontal gyrus
		6.62	30	32	2	Right inferior frontal, insula, orbitofrontal cortex
1883	0.005	6.48	62	-26	52	Right supramarginal gyrus
		5.78	56	-30	40	Right supramarginal gyrus
		5.2	40	-48	68	Right superior parietal lobule
1634	0.006	5.27	-62	10	10	Left precentral gyrus, inferior frontal gyrus
		5.01	-32	20	6	Left insula, frontal operculum
		4.61	-46	12	0	Left inferior frontal gyrus, frontal operculum
1123	0.02	5.1	-64	-30	46	Left supramarginal gyrus
		4.97	-68	-22	32	Left supramarginal gyrus

Cortical / subcortical gray voxels showing significantly stronger connectivity to neuroimaging findings in AD with delusion vs. without delusions. Peak voxel coordinates and T-values are reported for up to 3 local maxima more than 8mm apart for each cluster.



Supplementary Figure S1: Effects of changing seed size and network map threshold on reproducibility of network localization in AD.



Supplementary Figure S2: distribution of dice indices between connectivity maps from studies of patients with Alzheimer's disease.

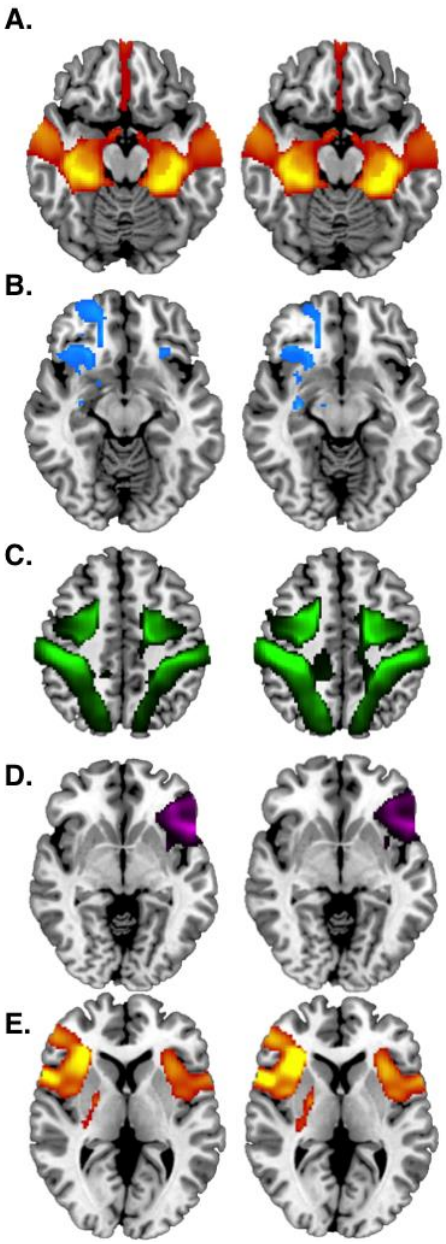
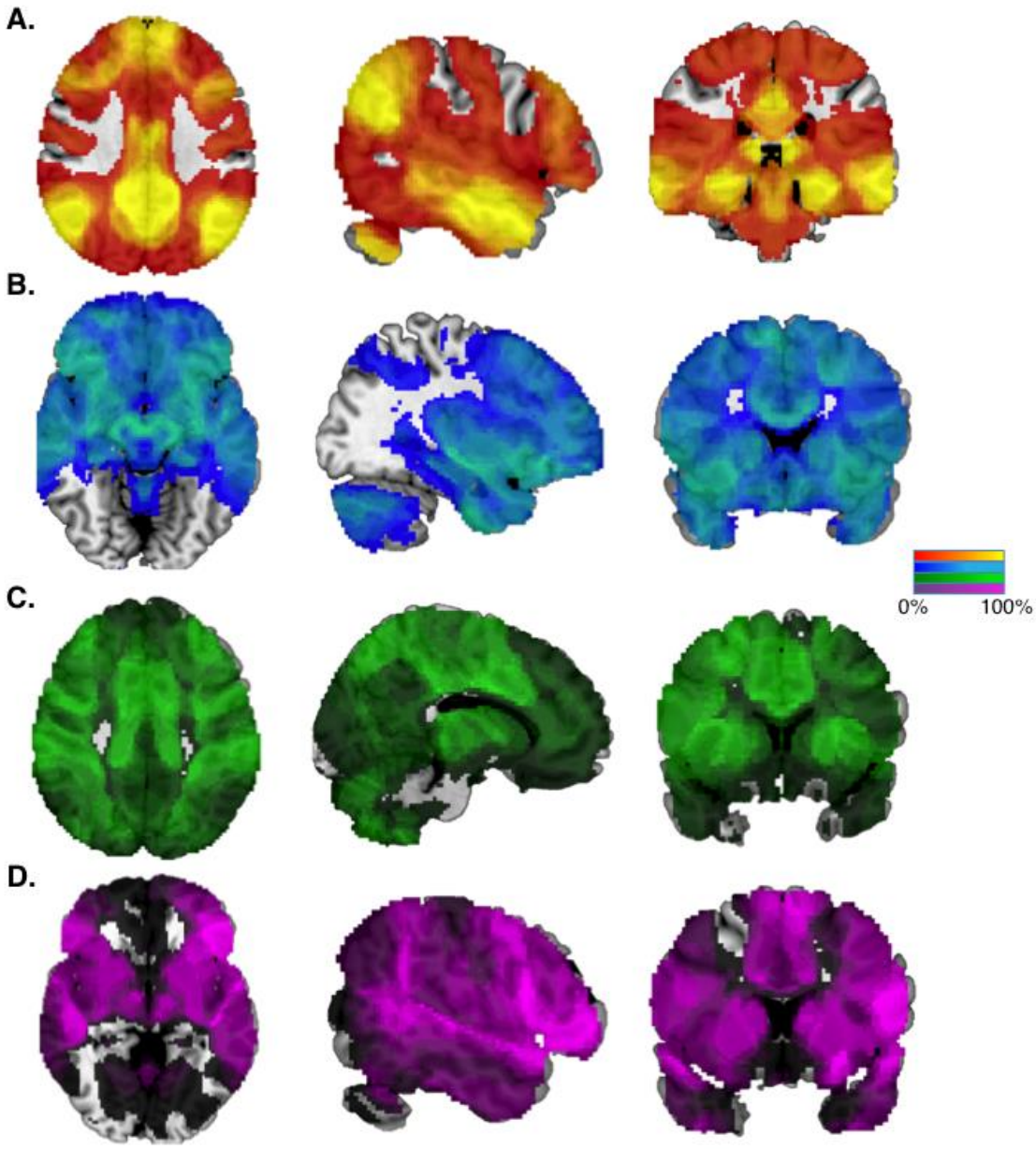
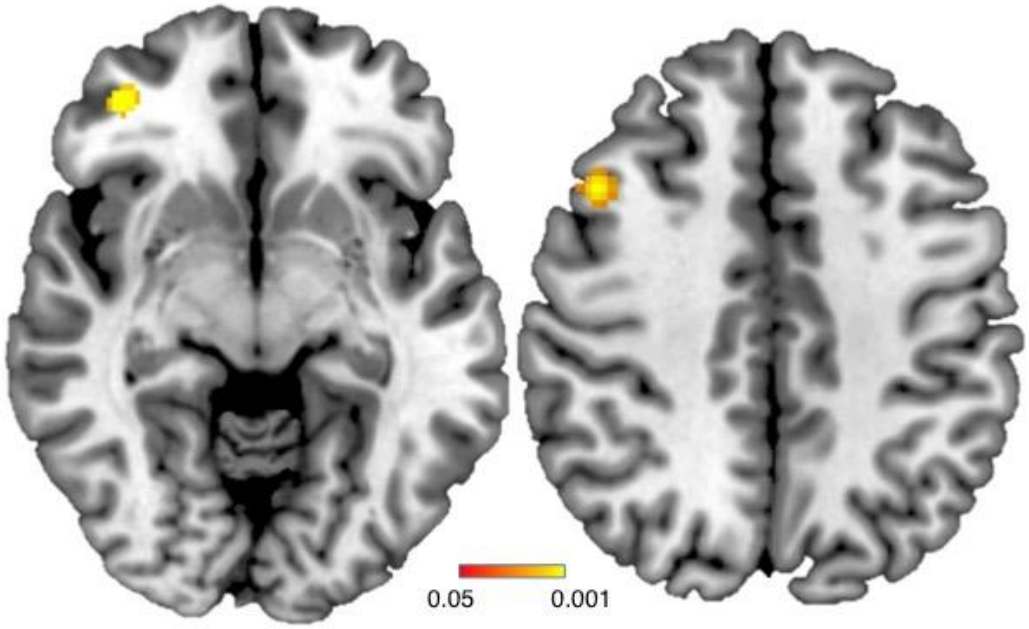


Figure S3: Specificity of network localization using parametric and nonparametric testing. *Results did not differ when using standard settings to control for multiple comparisons using parametric testing (left) vs. nonparametric testing (right) for:* ***(A)*** *AD vs. other dementias;* ***(B)*** *FTD vs. other dementias;* ***(C)*** *CBS vs. other dementias;* ***(D)*** *PNFA vs. other dementias; or* ***(E)*** *AD+ delusions vs. AD – delusions.*



Supplementary Figure 4: Network Localization Overlap for neuroimaging abnormalities in neurodegenerative disorders. Percentage of connectivity maps from studies of patients with a clinical diagnosis of Alzheimer's disease **(A)**, behavioral-variant frontotemporal dementia **(B)**, Corticobasal syndrome **(C)**, or progressive nonfluent aphasia **(D)** connected to each brain region.



Supplementary Figure 5: ALE results for delusions in AD meta-analysis.

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