Supplemental Table S1. Regions exhibiting significantly greater activation in comparisons relative to individuals with ADHD and vice-versa in the meta-analyses restricted to specific tasks or clinical characteristics. Brodmann areas (BA) are indicated in parenthesis when identifiable. When located unambiguously in a cortical region, the anatomic label is followed in parenthesis, in italics, by the neural network corresponding to the maximum activation likelihood estimation value, from the seven reference neuronal networks identified by Yeo et al. (9).

Cluster #	Volume (mm^3)	Weighted Center*			Extrema Value	Maximum ALE value*			Anatomical Label
		x	y	z		x	y	z	
<u>Comparisons > Participants with ADHD</u>									
Stimulant naïve participants, all tasks *Number of foci= 149; Number of experiments= 20; Total number of subjects= 593 ***									
1	1648	3.23	17.17	52.61	0.0143	0	16	54	Medial Superior Frontal Gyrus/Supplementary Motor Area (BA6) R, L *(Frontoparietal/Ventral Attention)*
					0.0111	12	22	56	Superior Frontal Gyrus (BA 6) R
2	664	32.71	0.59	2.61	0.0132	32	2	4	Putamen R
3	560	8.9	-15.81	-2.77	0.0116	8	-16	-2	Thalamus R
4	504	-29.04	58.98	-0.49	0.0098	-32	56	-8	Middle Frontal Gyrus (BA 10) L *(Frontoparietal/Default)*
					0.0093	-26	64	8	Superior Frontal Gyrus (BA 10) L *(Ventral Attention/Default)*
					0.0092	-28	60	2	Middle Frontal Gyrus (BA 10) L *(Frontoparietal/Default)*
5	400	56.07	12.66	-6.85	0.0131	56	12	-6	Superior Temporal Gyrus (BA 22) R *(Somatomotor)*
6	392	-18.38	7.79	-7.36	0.0101	-18	8	-6	Putamen L
7	392	-17.98	-2.78	61.2	0.0132	-18	-2	62	Middle Frontal Gyrus (BA 6-8) L *(Dorsal Attention)*
8	352	43.38	9	30	0.0123	44	8	30	Inferior Frontal Sulcus; Inferior Precentral Sulcus R *(Dorsal Attention/Frontoparietal)*

9	272	13.94	-45.7	26.65	0.0103	14	-46	26	Posterior Cingulate Cortex; Subparietal Sulcus R
10	256	33.43	-26.31	48.46	0.0101	34	-26	48	Postcentral Gyrus R *(Somatomotor)*
11	232	2.3	47.39	15.64	0.0095	4	48	16	Medial Frontal Gyrus; Paracingulate Sulcus (BA 10; BA 32) R *(Default)*
Participants without comorbidities, all tasks *Number of foci= 203; Number of experiments= 27; Total number of subjects= 791 ***									
1	1896	1.28	16.35	52.44	0.0208	0	16	54	Medial Superior Frontal Gyrus, BA 6; Supplementary Motor Area R, L *(Frontoparietal/Ventral Attention)*
					0.0111	12	22	56	Superior Frontal Gyrus (BA 6) R
2	608	33.68	-27.29	50.65	0.0137	34	-28	52	Postcentral Gyrus R *(Somatomotor)*
3	496	-28.03	59.69	0.87	0.0099	-28	60	2	Middle Frontal Gyrus (BA 10) L *(Frontoparietal)*
					0.0098	-32	56	-8	Middle Frontal Gyrus (BA 10) L *(Default/Frontoparietal)*
4	472	30.15	-0.44	4.78	0.0121	30	0	6	Putamen R
5	384	19.42	-91.75	8.07	0.0114	20	-92	8	Occipital Pole R
6	344	55.94	12.9	-5	0.0131	56	12	-6	Superior Temporal Gyrus (BA 22) R *(Somatomotor)*
7	336	40.62	10.85	6.6	0.0133	40	10	6	Inferior Frontal Gyrus (Frontal Operculum) R *(Ventral Attention)*
8	320	-40.52	19.27	-3.34	0.0104	-40	18	-2	Inferior Frontal Gyrus (Orbital Part); Anterior Insula L *(Frontoparietal)*
9	304	-18.94	7.69	-7.77	0.0111	-18	8	-6	Putamen L
10	272	43.53	9.00	30.00	0.0123	44	8	30	Inferior Frontal Sulcus; Inferior Precentral Sulcus R *(Dorsal Attention/Frontoparietal)*
11	232	3.91	48.57	15.79	0.0102	4	48	16	Medial Frontal Gyrus; Paracingulate Sulcus (BA 10; BA 32) R *(Default)*
12	200	46.96	25.92	33.13	0.0111	46	26	34	Middle Frontal Gyrus (BA 9/46) R *(Frontoparietal)*
All participants, inhibition tasks									

*Number of foci= 125; Number of experiments= 21; Total number of subjects= 566 ***									
1	1264	-0.23	15.53	53.54	0.0204	0	16	54	Medial Superior Frontal Gyrus/Supplementary Motor Area (BA6) R, L *(Frontoparietal/Ventral Attention)*
					0.0091	0	14	44	Paracingulate Gyrus (BA 32) R, L *(Ventral Attention)*
2	528	55.8	12.36	-6.54	0.0136	56	12	-6	Superior Temporal Gyrus (BA 22) R *(Somatomotor)*
3	400	7.38	-16.2	-0.96	0.0112	8	-16	-2	Thalamus R
4	296	42.71	14.54	9.2	0.0091	44	18	12	Inferior Frontal Gyrus (Frontal Operculum) R
					0.0091	42	12	8	Inferior Frontal Gyrus (Frontal Operculum) R *(Ventral Attention)*
5	280	51.27	25.43	21.95	0.0093	54	26	18	Inferior Frontal Gyrus (BA 44/45) R *(Frontoparietal)*
					0.0087	48	24	28	Middle Frontal Gyrus (BA 9/46) R *(Frontoparietal)*
6	272	-26.34	62.03	6	0.0096	-26	64	8	Superior Frontal Gyrus (BA 10) L *(Frontoparietal/Default)*
7	224	-37.94	44.77	3.96	0.0099	-38	44	4	Inferior Frontal Gyrus/Inferior Frontal Sulcus (BA 45; BA 9/46) L *(Frontoparietal)*
8	216	-41.43	-73.6	-4.45	0.0102	-42	-74	-4	Inferior Occipital Gyrus L *(Visual)*
9	216	-7.55	-29.84	-4.89	0.0094	-8	-30	-6	Midbrain; Superior Colliculus L
All participants, working memory tasks									
*Number of foci= 48; Number of experiments= 8; Total number of subjects= 341 ***									
1	264	-40.13	20.73	-6.2	0.0083	-40	20	-8	Inferior Frontal Gyrus (Orbital Part); Anterior Insula L *(Default/Frontoparietal)*
2	256	33	57	15	0.0087	32	56	14	Middle Frontal Gyrus (BA 10) R *(Frontoparietal)*

All participants, attention tasks *Number of foci= 49; Number of experiments= 11; Total number of subjects=363 **									
1	560	1.51	14.47	43.93	0.0142	2	14	44	Paracingulate Gyrus (BA 32) R *(Ventral Attention)*
Participants with ADHD > Comparisons									
Stimulant naïve participants, all tasks *Number of foci= 40; Number of experiments= 9; Total number of subjects= 239 **									
1	448	31.24	-7.25	16.55	0.0107	32	-8	16	White Matter R (sub-operculum)
Participants without comorbidities, all tasks *Number of foci= 70; Number of experiments= 14; Total number of subjects= 388 **									
1	1152	40.34	-59.6	16.15	0.0155	40	-58	18	Angular gyrus; Middle Occipital Gyrus R
2	608	-39.02	-27.45	6.5	0.011	-40	-24	6	Heschl's Gyrus L *(Somatomotor)*
					0.0099	-40	-32	8	Heschl's Gyrus L *(Somatomotor)*
3	488	11.72	-50.3	30.56	0.0099	14	-50	30	Posterior Cingulate Cortex; Subparietal Sulcus R *(Default)*
					0.0093	4	-48	30	Posterior Cingulate Cortex R *(Default)*
4	280	-48.2	33.83	-0.2	0.0101	-48	34	0	Inferior Frontal Gyrus (BA 45) *(Default)*
All participants, inhibition tasks *Number of foci= 41; Number of experiments= 10; Total number of subjects= 247 **									
1	568	39.75	-57.25	19.21	0.0133	40	-58	20	Angular Gyrus/Middle Occipital Gyrus R
2	256	22.53	38.93	20.5	0.0084	24	36	20	Intermediate Frontal Sulcus/Frontal White Matter R

Footnote*: *Montreal Neurological Institute coordinates; ** After removing complete overlap but including partial overlap of participants across studies from the same research groups; *** R: Right; L: Left. ALE: Activation likelihood estimation.*