

Supplementary Material

eTable 1. Regional rotated weights of the seven significant MRI principal components (PC) identified by principal component analysis on grey-matter regional volumes.

<i>Regions</i>	PC1	PC2	PC3	PC4	PC5	PC6	PC7
<i>Postcentral_gyrus</i>	0.871	0.101	0.115	-0.227	0.151	0.132	-0.003
<i>Superior_parietal_gyrus</i>	0.769	0.082	0.077	0.167	0.037	-0.038	0.290
<i>Lateral_remainder_of_occipital_lobe</i>	0.742	-0.085	0.449	0.020	0.111	0.140	0.135
<i>Anterior_temporal_lobe_medial_part</i>	-0.710	0.118	0.488	0.128	0.177	-0.127	-0.100
<i>Medial_orbital_gyrus</i>	0.693	0.208	0.499	0.148	0.294	-0.175	0.202
<i>Superior_frontal_gyrus</i>	0.672	0.039	0.114	0.234	0.616	0.226	0.018
<i>Thalamus</i>	0.646	0.391	0.116	0.165	-0.309	0.140	-0.377
<i>Cuneus</i>	0.633	-0.037	0.294	-0.072	0.268	-0.296	-0.054
<i>Gyrus_cinguli_posterior_part</i>	0.598	0.254	0.004	-0.164	-0.076	-0.126	0.358
<i>Caudate_nucleus</i>	0.588	0.293	0.256	-0.100	0.214	0.383	0.004
<i>Inferior_frontal_gyrus</i>	0.546	0.434	0.225	0.017	0.041	0.254	0.536
<i>Cerebellum_dentate</i>	0.205	0.894	-0.037	-0.071	0.080	-0.054	-0.020
<i>Nucleus_accumbens</i>	0.029	0.814	0.075	0.016	0.181	0.032	0.000
<i>Amygdala</i>	-0.421	0.790	0.262	0.261	0.051	-0.037	-0.029
<i>Brainstem_mid</i>	0.104	0.656	0.082	0.491	-0.052	0.203	0.099
<i>Substantia_nigra</i>	0.311	0.653	0.003	0.505	-0.151	-0.034	0.114
<i>Putamen</i>	0.513	0.638	0.062	0.053	-0.078	0.382	0.043
<i>Hippocampus</i>	-0.002	0.610	-0.004	0.149	0.503	0.482	-0.088
<i>Precentral_gyrus</i>	0.526	0.608	0.110	0.051	0.238	-0.162	0.223
<i>Cerebellum_gm</i>	0.319	0.607	0.288	0.071	0.249	0.217	-0.015
<i>Posterior_orbital_gyrus</i>	0.075	0.152	0.872	0.033	-0.052	0.100	0.324
<i>Anterior_orbital_gyrus</i>	0.289	0.300	0.710	0.305	0.392	0.144	-0.037
<i>Lingual_gyrus</i>	0.574	-0.048	0.660	0.048	0.020	0.176	0.022
<i>Anterior_temporal_lobe_lateral_part</i>	0.124	0.063	0.605	0.062	-0.029	0.233	-0.063
<i>Brainstem_pon</i>	-0.255	0.505	-0.573	-0.204	0.045	0.163	0.329
<i>Superior_temporal_gyrus_posterior_part</i>	-0.084	0.272	0.207	0.802	0.221	0.107	-0.027
<i>Fusiform_gyrus</i>	-0.279	-0.055	-0.136	0.783	-0.056	-0.225	0.088
<i>Middle_and_inferior_temporal_gyrus</i>	0.155	0.112	0.460	0.628	0.253	0.139	-0.027
<i>Insula</i>	0.174	0.120	0.450	0.558	0.046	-0.075	0.269
<i>Parahippocampal_and_ambient_gyri</i>	0.065	0.099	-0.008	0.098	0.960	-0.050	-0.052
<i>Subcallosal_area</i>	0.132	0.204	0.209	-0.026	0.761	0.079	0.070
<i>Brainstem_med</i>	0.140	0.034	-0.102	-0.037	-0.013	0.939	0.107
<i>Lateral_orbital_gyrus</i>	0.057	0.118	0.334	-0.024	0.055	0.757	-0.049
<i>Presubgenual_frontal_cortex</i>	0.124	-0.041	0.256	0.368	0.125	0.545	0.470
<i>Superior_temporal_gyrus_anterior_part</i>	-0.201	-0.002	0.062	0.097	0.061	0.005	-0.839
<i>Subgenual_frontal_cortex</i>	-0.231	-0.051	0.301	0.316	0.072	0.301	0.671
<i>Inferiolateral_remainder_of_parietal_lobe</i>	0.401	0.042	0.323	0.350	-0.149	-0.171	0.616
<i>Cerebellum_wm</i>	0.078	0.197	0.072	-0.148	0.234	0.061	-0.142
<i>Cingulate_gyrus_anterior_part</i>	0.164	0.291	-0.031	0.004	-0.279	0.124	0.250
<i>Straight_gyrus</i>	0.085	-0.062	-0.065	0.080	0.101	-0.039	0.085
<i>Middle_frontal_gyrus</i>	0.319	0.338	0.427	0.122	0.176	-0.278	0.142
<i>Pallidum</i>	-0.030	0.374	-0.149	-0.034	0.216	0.031	0.170
<i>Posterior_temporal_lobe</i>	0.324	0.151	0.166	0.175	0.077	0.121	0.397
Cumulative % of Variance	32.0	43.8	53.8	61.6	68.8	75.2	80.8

eTable 2. Regional rotated weights of the four significant [¹¹C]PK11195 PET principal components (PC) identified by principal component analysis on non-displaceable binding potential regional values.

Regions	PC 1	PC 2	PC 3	PC 4
<i>Lingual_gyrus</i>	0.903	0.297	0.145	0.127
<i>Cerebellum_gm</i>	0.900	0.173	-0.034	0.156
<i>Anterior_orbital_gyrus</i>	0.897	0.104	0.288	0.184
<i>Cuneus</i>	0.892	0.232	0.132	0.157
<i>Medial_orbital_gyrus</i>	0.869	0.233	0.196	0.269
<i>Straight_gyrus</i>	0.861	0.370	0.066	0.169
<i>Lateral_orbital_gyrus</i>	0.827	0.351	0.019	0.295
<i>Thalamus</i>	0.820	0.124	0.203	0.294
<i>Gyrus_cinguli_posterior_part</i>	0.816	0.299	0.017	0.165
<i>Caudate_nucleus</i>	0.814	0.086	0.069	-0.002
<i>Presubgenual_frontal_cortex</i>	0.786	0.161	0.211	0.355
<i>Inferior_frontal_gyrus</i>	0.779	0.273	0.059	0.447
<i>Middle_and_inferior_temporal_gyrus</i>	0.774	0.495	0.206	0.277
<i>Lateral_remainder_of_occipital_lobe</i>	0.762	0.437	0.287	0.190
<i>Fusiform_gyrus</i>	0.758	0.371	0.260	-0.076
<i>Anterior_temporal_lobe_lateral_part</i>	0.745	0.547	0.147	0.126
<i>Posterior_orbital_gyrus</i>	0.740	0.490	0.223	0.205
<i>Posterior_temporal_lobe</i>	0.723	0.522	0.287	0.304
<i>Subgenual_frontal_cortex</i>	0.691	0.363	0.350	0.279
<i>Superior_temporal_gyrus_posterior_part</i>	0.687	0.398	0.187	0.423
<i>Inferiolateral_remainder_of_parietal_lobe</i>	0.674	0.499	0.117	0.391
<i>Superior_parietal_gyrus</i>	0.610	0.464	0.112	0.291
<i>Insula</i>	0.586	0.560	0.362	0.253
<i>Cingulate_gyrus_anterior_part</i>	0.579	0.413	-0.127	0.318
<i>Subcallosal_area</i>	0.567	0.555	-0.025	-0.086
<i>Anterior_temporal_lobe_medial_part</i>	0.475	0.798	0.051	0.025
<i>Hippocampus</i>	0.235	0.794	0.311	0.170
<i>Amygdala</i>	0.238	0.789	0.351	0.202
<i>Superior_temporal_gyrus_anterior_part</i>	0.645	0.670	-0.011	0.145
<i>Parahippocampal_and_ambient_gyri</i>	0.513	0.668	0.225	0.279
<i>Nucleus_accumbens</i>	0.443	0.567	-0.237	0.166
<i>Brainstem_pon</i>	0.304	0.129	0.876	0.061
<i>Cerebellum_dentate</i>	0.067	-0.030	0.847	0.198
<i>Cerebellum_wm</i>	0.089	0.365	0.797	-0.015
<i>Brainstem_mid</i>	0.436	0.233	0.608	0.390
<i>Superior_frontal_gyrus</i>	0.426	0.012	-0.004	0.792
<i>Middle_frontal_gyrus</i>	0.298	0.285	0.359	0.778
<i>Precentral_gyrus</i>	0.205	0.315	0.451	0.634
<i>Postcentral_gyrus</i>	0.402	0.455	0.115	0.622
<i>Substantia_nigra</i>	-0.051	0.113	0.074	0.026
<i>Brainstem_med</i>	0.386	0.234	0.331	-0.026
<i>Putamen</i>	0.620	0.099	0.008	0.043
<i>Pallidum</i>	-0.030	0.138	0.473	0.120
Cumulative % of Variance	62.8	72.0	77.1	81.4

eTable 3. Regional rotated weights of the four significant [¹⁸F]AV-1451 PET principal components (PC) identified by principal component analysis on non-displaceable binding potential regional values.

Regions	PC 1	PC 2	PC 3	PC 4
<i>Middle_frontal_gyrus</i>	0.891	0.278	0.177	0.210
<i>Postcentral_gyrus</i>	0.791	0.465	0.231	0.159
<i>Precentral_gyrus</i>	0.769	0.355	0.073	0.392
<i>Superior_frontal_gyrus</i>	0.766	0.241	0.382	0.225
<i>Lateral_orbital_gyrus</i>	0.731	0.437	0.200	0.174
<i>Inferior_frontal_gyrus</i>	0.711	0.305	0.384	0.410
<i>Inferiolateral_remainder_of_parietal_lobe</i>	0.706	0.620	0.173	0.202
<i>Superior_parietal_gyrus</i>	0.704	0.567	0.077	0.029
<i>Middle_inferior_temporal_gyrus</i>	0.656	0.511	0.078	0.388
<i>Lateral_remainder_of_occipital_lobe</i>	0.645	0.550	0.193	0.330
<i>Medial_orbital_gyrus</i>	0.584	0.107	0.572	0.415
<i>Superior_temporal_gyrus_posterior_part</i>	0.577	0.380	0.545	0.301
<i>Anterior_orbital_gyrus</i>	0.533	0.106	0.517	0.497
<i>Amygdala</i>	0.240	0.878	0.283	0.131
<i>Hippocampus</i>	0.281	0.825	-0.016	0.341
<i>Parahippocampal_and_ambient_gyri</i>	0.410	0.767	0.326	-0.038
<i>Anterior_temporal_lobe_medial_part</i>	0.307	0.758	0.422	-0.045
<i>Fusiform_gyrus</i>	0.355	0.752	0.178	0.064
<i>Brainstem_med</i>	0.086	0.736	0.133	0.299
<i>Anterior_temporal_lobe_lateral_part</i>	0.449	0.682	0.301	0.188
<i>Posterior_temporal_lobe</i>	0.559	0.668	0.200	0.358
<i>Posterior_orbital_gyrus</i>	0.565	0.636	0.344	0.269
<i>Insula</i>	0.540	0.554	0.225	0.457
<i>Cingulate_gyrus_anterior_part</i>	0.464	0.551	0.511	-0.074
<i>Subcallosal_area</i>	-0.206	0.189	0.840	-0.029
<i>Superior_temporal_gyrus_anterior_part</i>	0.396	0.334	0.794	0.164
<i>Subgenual_frontal_cortex</i>	0.313	0.236	0.785	0.289
<i>Straight_gyrus</i>	0.344	0.400	0.732	0.081
<i>Presubgenual_frontal_cortex</i>	0.418	0.086	0.700	0.318
<i>Cerebellum_dentate</i>	0.003	-0.007	0.193	0.907
<i>Brainstem_mid</i>	0.221	0.227	0.136	0.872
<i>Cerebellum_wm</i>	0.524	0.121	-0.081	0.770
<i>Thalamus</i>	0.395	0.229	0.285	0.726
<i>Brainstem_pon</i>	0.262	0.519	0.193	0.679
<i>Substantia_nigra</i>	0.457	0.274	0.099	0.547
<i>Putamen</i>	0.223	0.296	-0.011	0.296
<i>Caudate_nucleus</i>	0.084	0.061	0.553	0.301
<i>Nucleusaccumbens</i>	0.389	0.402	0.255	0.066
<i>Lingual_gyrus</i>	0.246	0.419	0.477	0.210
<i>Pallidum</i>	0.274	0.133	0.227	0.473
<i>Cuneus</i>	0.321	0.482	0.376	0.279
<i>Gyrus_cinguli_posterior_part</i>	0.504	0.450	0.453	0.116
<i>Cerebellum_gm</i>	-0.038	0.032	0.009	0.135
Cumulative % of Variance	61.3	69.9	76.9	81.8