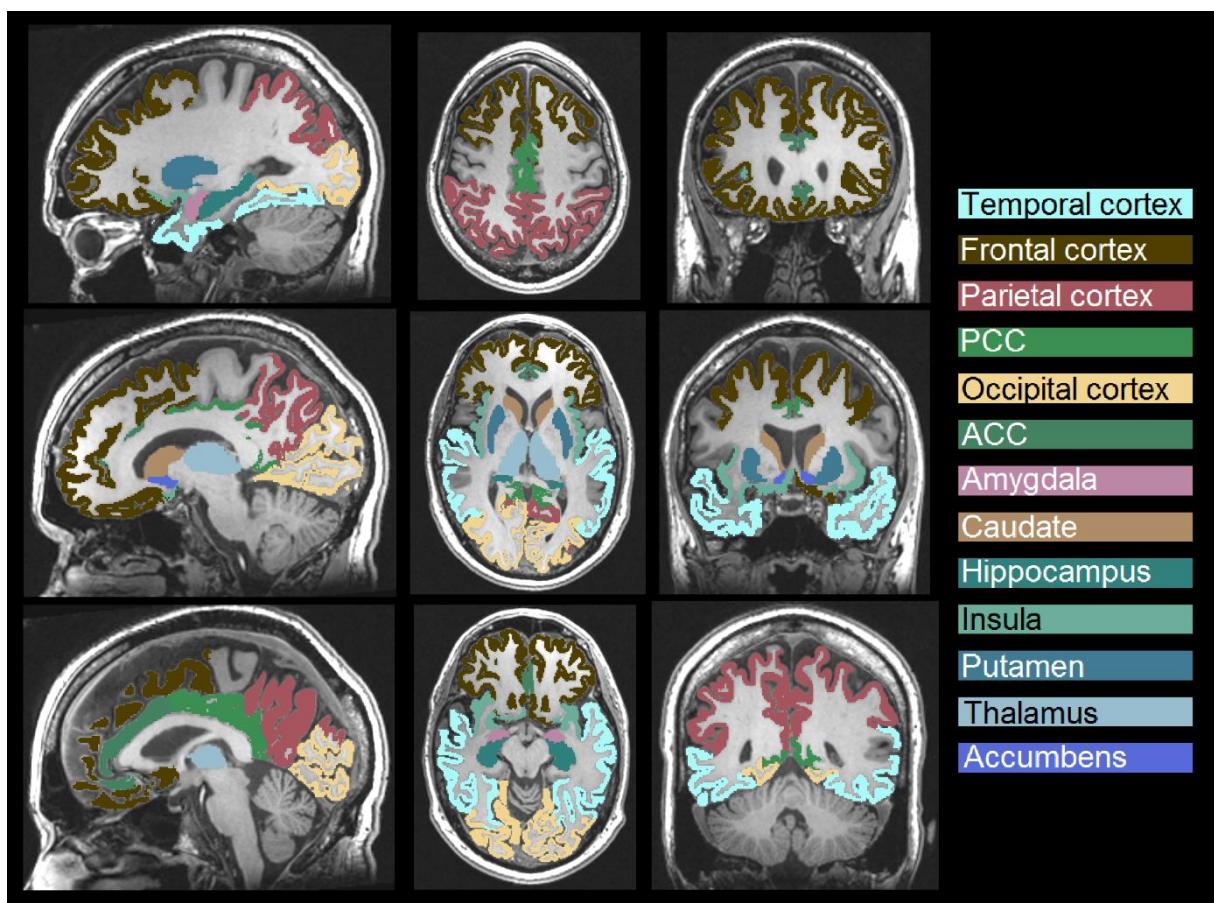
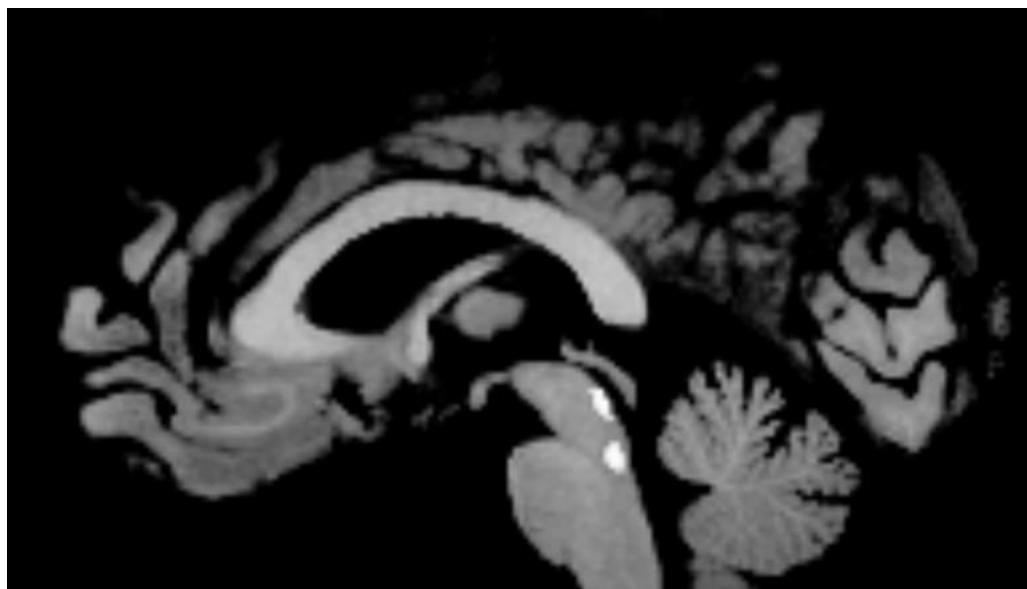


In vivo correlation of serotonin transporter and 1B receptor availability in the human brain: a PET study

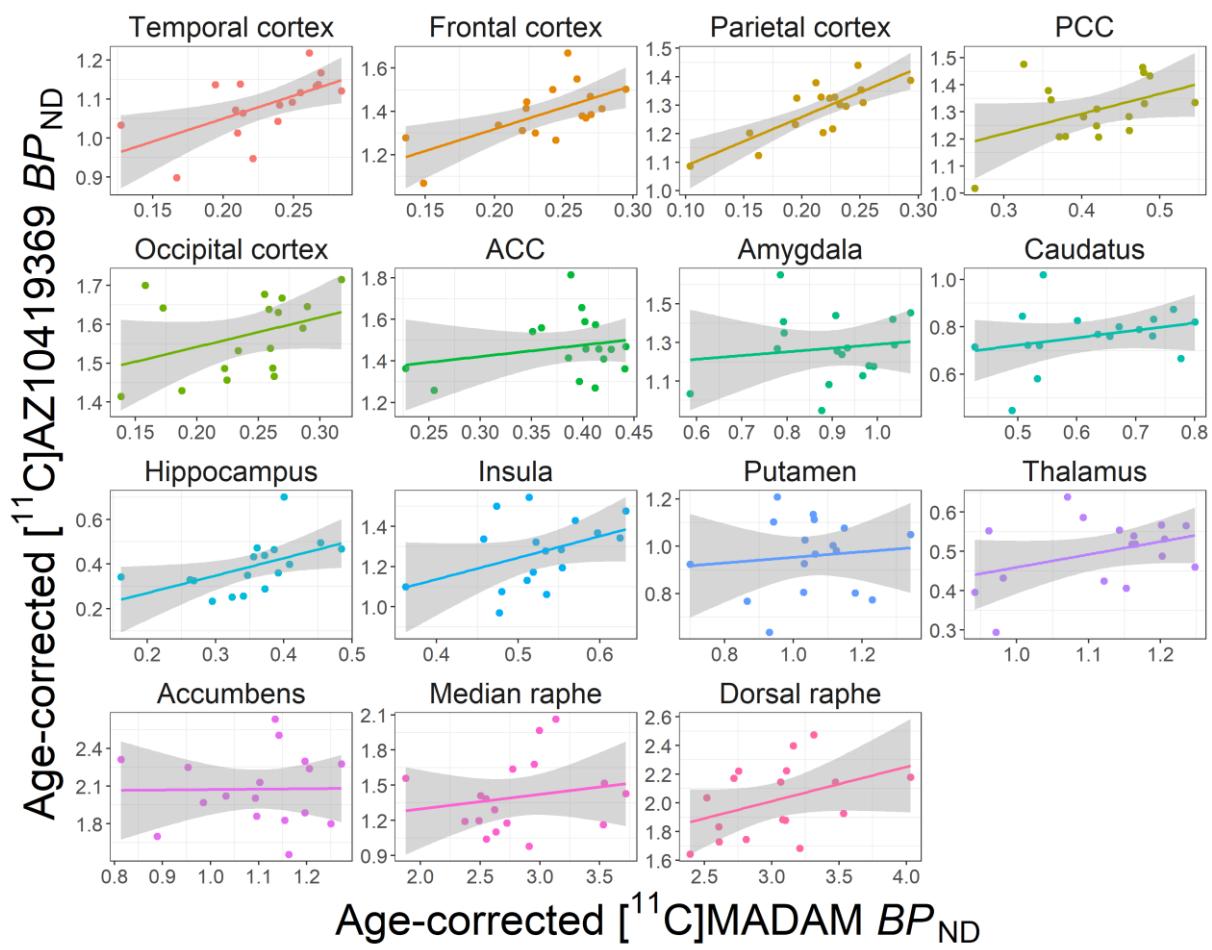
Supplemental Material



Supplemental figure S1. MRI for one subject with regions of interest overlaid. From top to bottom, the sagittal images (left column) move from a lateral to a medial view, the axial images (middle column) from a superior to inferior view, the coronal images (right column) from an anterior to a posterior view. ACC, anterior cingulate cortex; PCC, posterior cingulate cortex



Supplemental figure S2. Sagittal view of MRI for one subject with the median and dorsal raphe masks overlaid in white. Both masks situated in the brainstem, dorsal raphe mask directly anterior of the cerebral aqueduct; median raphe mask below



Supplemental figure S3. Scatter plots of $[^{11}\text{C}]\text{AZ10419369}$ and $[^{11}\text{C}]\text{MADAM}$ binding in different brain regions. Plotted BPND values are corrected for age. Regression line with 95% confidence interval in shaded gray. ACC, Anterior cingulate cortex; PCC, Posterior cingulate cortex; BP_{ND} , non-displaceable binding potential.

Table S1. [¹¹C]MADAM and [¹¹C]AZ10419369 BP_{ND} and volume corrected correlations

<i>Region</i>	[¹¹ C]MADAM BP_{ND} (mean±SD)	[¹¹ C]AZ10419369 BP_{ND} (mean±SD)	correlation	p-value
Temporal cortex	0.26±0.04	0.86±0.10	0.33	0.21
Frontal cortex	0.22±0.04	1.05±0.17	0.61	0.01
Parietal cortex	0.23±0.04	0.95±0.14	0.47	0.06
Posterior cingulate	0.39±0.07	0.91±0.16	0.39	0.13
Occipital cortex	0.27±0.05	1.21±0.15	0.11	0.69
Anterior cingulate	0.40±0.06	1.04±0.19	0.16	0.54
Amygdala	0.93±0.12	0.93±0.2	0.17	0.53
Caudate Nucleus	0.73±0.12	0.93±0.13	0.22	0.42
Hippocampus	0.38±0.08	0.45±0.12	0.54	0.03
Insula	0.54±0.07	1.05±0.18	0.24	0.37
Putamen	1.12±0.15	1.27±0.18	0.18	0.5
Thalamus	1.17±0.10	0.53±0.09	0.52	0.04
Accumbens	1.04±0.13	1.79±0.3	0.04	0.87

Table S2. $[^{11}\text{C}]\text{MADAM}$ and $[^{11}\text{C}]\text{AZ10419369}$ BP_{ND} and cor, only same day PET (n=12)

<i>Region</i>	$[^{11}\text{C}]\text{MADAM}$ BP_{ND} (mean±SD)	$[^{11}\text{C}]\text{AZ10419369}$ BP_{ND} (mean±SD)	correlation	p-value
Temporal cortex	0.26±0.04	0.85±0.11	0.6	0.05
Frontal cortex	0.22±0.05	1.05±0.18	0.68	0.02
Parietal cortex	0.23±0.04	0.94±0.14	0.76	0.01
Posterior cingulate	0.37±0.07	0.9±0.15	0.33	0.33
Occipital cortex	0.26±0.05	1.21±0.13	0.17	0.62
Anterior cingulate	0.4±0.07	1.02±0.21	0.27	0.41
Amygdala	0.92±0.13	0.91±0.22	0.13	0.71
Caudate Nucleus	0.73±0.12	0.9±0.14	0.24	0.48
Hippocampus	0.37±0.08	0.44±0.13	0.48	0.13
Insula	0.53±0.07	1±0.19	0.51	0.11
Putamen	1.1±0.15	1.24±0.18	0.07	0.84
Thalamus	1.16±0.11	0.51±0.1	0.24	0.47
Accumbens	1.05±0.14	1.79±0.36	0.03	0.93
Median raphe	2.82±0.51	1±0.29	0.29	0.39
Dorsal raphe	3.18±0.5	1.41±0.32	0.44	0.17