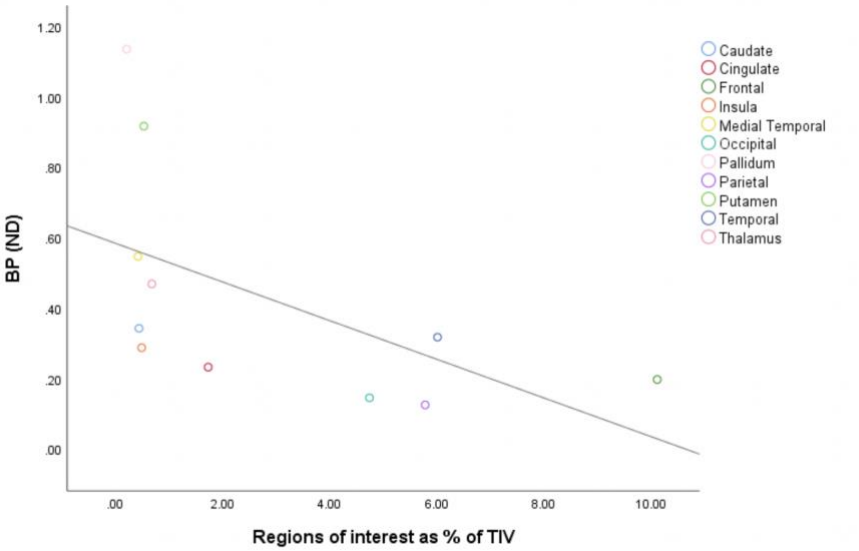
Supplementary material

Supplementary Table 1. Brain volumes minimum (min), mean, and standard deviation (SD) in controls, with volumes and T-scores in the patient with the Q351R *MAPT* mutation at baseline and follow-up. Bold represents a significant difference between the patient and controls. Brain volumes are expressed as a percentage of total intracranial volume (TIV).

BRAIN REGION	CONTROL MIN VOLUME	CONTROL MEAN VOLUME	CONTROL SD VOLUME	Q351R BASELINE VOLUME	T-SCORE BASELINE	P-VALUE	Q351R FOLLOW-UP VOLUME	T-SCORE FOLLOW-UP	P-VALUE
CORTICAL									
FRONTAL	11.64	12.31	0.49	10.11	**4.16***	**0.009**	10.97	2.53	0.052
TEMPORAL	8.13	8.62	0.50	6.01	**4.83***	**0.005**	5.97	**4.91***	**0.005**
PARIETAL	6.52	6.91	0.42	5.78	2.49	0.055	6.05	1.90	0.117
OCCIPITAL	4.83	5.29	0.27	4.74	1.89	0.118	4.69	2.06	0.095
CINGULATE	1.93	2.08	0.12	1.73	**2.70***	**0.042**	1.74	**2.62***	**0.047**
INSULA	0.72	0.77	0.05	0.49	**5.19***	**0.004**	0.46	**5.74***	**0.002**
SUBCORTICAL									
CAUDATE	0.41	0.47	0.05	0.44	0.56	0.602	0.45	0.37	0.726
PUTAMEN	0.56	0.63	0.06	0.53	1.54	0.183	0.50	2.01	0.101
PALLIDUM	0.25	0.27	0.02	0.21	**2.78***	**0.039**	0.22	2.31	0.069
MEDIAL TEMPORAL	0.74	0.80	0.04	0.42	**8.80***	**<0.001**	0.38	**9.72***	**<0.001**
THALAMUS	0.64	0.76	0.10	0.68	0.74	0.492	0.65	1.02	0.355

Supplementary Figure 1. Spearman correlations between brain volumes of regions of interest and binding potential (BP_{ND}) values in the Q351R mutation carrier at baseline (a, r^2=-0.745, *p*=0.008) and follow-up (b, r^2= -0.791, *p*=0.004). Brain volumes are expressed as a percentage of total intracranial volume (TIV).

a)



b)