

Supplementary Material

**In Vivo Imaging of Tau Pathology Using Magnetic Resonance Imaging
Textural Analysis**

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Parameter	Mean values (\pm SE)				P value	T ratio	df	Region
	rTg4510		Wild type					
U fine	0.0066	\pm 0.001	0.00067	\pm 0.001	$P > 0.05$	5.572e-005	23	Cortex
S fine	17.30	\pm 6.02	19.031	\pm 2.64	$P > 0.05$	0.01626	23	
SD fine	3866.96	\pm 915.14	3053.12	\pm 324.97	$P > 0.05$	1.749	23	
M medium	4336.33	\pm 1055.47	4068.4	\pm 329.71	$P > 0.05$	1.578	23	
S medium	13.45	\pm 4.07	8.33	\pm 2.06	$P > 0.05$	0.04811	23	
SD medium	1367.79	\pm 525.87	1579.85	\pm 194.15	$P > 0.05$	1.993	23	
M coarse	4256.79	\pm 680.11	4666.44	\pm 329.23	$P > 0.05$	1.030	23	
SD coarse	1079.60	\pm 243.59	982.57	\pm 217.45	$P > 0.05$	0.9117	23	
M fine	111.81	\pm 770.26	679.73	\pm 47.54	$P > 0.05$	0.6382	23	Hippocampus
U fine	0.012	\pm 0.0015	0.01	\pm 0.0001	$P > 0.05$	1.879e-005	23	
S fine	18.64	\pm 4.93	36.25	\pm 3.06	$P > 0.05$	0.1655	23	
SD fine	2443.43	\pm 453.38	1398.95	\pm 149.32	$P > 0.05$	0.4179	23	
M medium	2905.83	\pm 727.99	1062.77	\pm 125.56	$P > 0.05$	0.4046	23	
U medium	0.023	\pm 0.0017	0.014	\pm 0.0014	$P > 0.05$	8.456e-005	23	
S medium	7.84	\pm 3.01	9.79	\pm 1.89	$P > 0.05$	0.01832	23	
SD medium	1819.90	\pm 893.68	959.89	\pm 137.46	$P > 0.05$	1.315	23	
M coarse	2909.57	\pm 578.28	1944.21	\pm 181.75	$P > 0.05$	1.554	23	
E coarse	4.55	\pm 0.24	5.30	\pm 0.0546	$P > 0.05$	0.007047	23	
U coarse	0.05	\pm 0.008	0.03	\pm 0.0013	$P > 0.05$	0.0001879	23	
S coarse	7.95	\pm 3.67	9.37	\pm 2.39	$P > 0.05$	0.01334	23	
SD coarse	1676.30	\pm 694.19	835.53	\pm 99.22	$P > 0.05$	2.262	23	
M fine	123.20	\pm 97.11	221.79	\pm 22.3975	$P > 0.05$	0.9263	23	Thalamus
U fine	0.0067	\pm 0.0018	0.000667	\pm 0.00067	$P > 0.05$	5.669e-005	23	
S fine	44.15	\pm 2.36	45.16	\pm 1.26	$P > 0.05$	0.009490	23	
SD fine	1232.76	\pm 132.36	1090.24	\pm 72.69	$P > 0.05$	1.339	23	
M medium	-198.23	\pm 146.29	-50.80	\pm 47.65	$P > 0.05$	1.385	23	
U medium	0.012	\pm 0.0016	0.0093	\pm 0.000667	$P > 0.05$	2.537e-005	23	
S medium	29.82	\pm 3.60	31.10	\pm 1.98	$P > 0.05$	0.01203	23	
SD medium	1137.22	\pm 216.62	1073.16	\pm 74.59	$P > 0.05$	0.6019	23	
M coarse	-573.04	\pm 188.07	-500.35	\pm 54.81	$P > 0.05$	0.6830	23	
E coarse	5.8	\pm 0.09	6.32	\pm 0.12	$P > 0.05$	0.004886	23	
S coarse	23.38	\pm 2.99	24.93	\pm 1.86	$P > 0.05$	0.01456	23	
SD coarse	1092.13	\pm 232.00	1017.82	\pm 69.24	$P > 0.05$	0.6982	23	

Supplementary Table 1. Non-significant textural parameters in the cortex, hippocampus and thalamus.