

### Supplementary material 3

Pearson correlation coefficients between MRI measures and age, before and after age correction.

	CTL		MCI		AD	
	Original	Age-corrected	Original	Age-corrected	Original	Age-corrected
3rd Ventricle	0.325**	0	0.298**	-0.090*	0.276**	-0.096
4th Ventricle	0.150**	0	0.068	-0.124**	0.136*	-0.059
Accumbens area	-0.282**	0	-0.341**	-0.002	-0.211**	0.181**
Amygdala	-0.272**	0	-0.141**	0.128**	-0.144*	0.137*
Brain Stem	-0.119*	0	-0.212**	-0.083	-0.170**	-0.035
Caudate	0.166**	0	0.098*	-0.086	0.228**	0.067
Cerebellum cortex	-0.146**	0	-0.295**	-0.144**	-0.262**	-0.109
Cerebellum white matter	-0.227**	0	-0.341**	-0.109*	-0.316**	-0.062
Corpus callosum anterior	-0.300**	0	-0.329**	0.014	-0.301**	0.065
Corpus callosum central	-0.231**	0	-0.326**	-0.046	-0.310**	-0.016
Corpus callosum midanterior	-0.304**	0	-0.352**	-0.001	-0.265**	0.106
Corpus callosum midposterior	-0.262**	0	-0.285**	0.067	-0.214**	0.212**
Corpus callosum Posterior	-0.136*	0	-0.227**	-0.069	-0.179**	-0.005
Hippocampus	-0.426**	0	-0.369**	0.066	-0.326**	0.135*
Inferior lateral ventricle	0.371**	0	0.357**	0.025	0.317**	0.08
Lateral ventricle	0.330**	0	0.300**	-0.048	0.265**	-0.051
Pallidum	-0.064	0	-0.155**	-0.082	-0.204**	-0.132*
Putamen	-0.034	0	-0.141**	-0.102*	-0.059	-0.022
Thalamus proper	-0.217**	0	-0.307**	-0.076	-0.229**	0.004
Sulcal CSF	0.225**	0	0.216**	-0.015	0.185**	-0.014
Ventral diencephalon	-0.163**	0	-0.236**	-0.049	-0.309**	-0.118*
Banks of superior temporal sulcus	-0.176**	0	-0.113*	0.072	0.041	0.206**
Caudal anterior cingulate gyrus	0.117*	0	0.053	-0.08	0.074	-0.046
Caudal middle frontal gyrus	-0.180**	0	-0.218**	-0.002	-0.069	0.115*
Cuneus cortex	-0.125*	0	-0.108*	0.026	-0.099	0.02
Entorhinal cortex	-0.179**	0	-0.216**	-0.061	-0.298**	-0.152**
Frontal pole	-0.171**	0	-0.178**	0.025	-0.185**	-0.004
Fusiform gyrus	-0.255**	0	-0.216**	0.072	-0.185**	0.039
Inferior parietal cortex	-0.262**	0	-0.147**	0.134**	0.046	0.279**
Inferior temporal gyrus	-0.202**	0	-0.205**	0	-0.087	0.073
Insular cortex	-0.155**	0	-0.139**	0.035	-0.149**	-0.014
Isthmus cingulate cortex	-0.170**	0	-0.139**	0.069	-0.043	0.139*
Lateral occipital cortex	-0.284**	0	-0.244**	0.092*	-0.107	0.161**
Lateral orbito frontal cortex	-0.224**	0	-0.174**	0.08	-0.197**	0.016
Lingual gyrus	-0.225**	0	-0.220**	0.041	-0.153**	0.085
Medial orbito frontal cortex	-0.108*	0	-0.134**	-0.02	-0.219**	-0.121*
Middle temporal gyrus	-0.215**	0	-0.172**	0.036	-0.113	0.054
Paracentral sulcus	-0.142**	0	-0.200**	-0.023	-0.136*	0.007
Parahippocampal gyrus	-0.175**	0	-0.145**	0.043	-0.215**	-0.033

<b>Parsopercularis gyrus</b>	-0.133*	0	-0.193**	-0.038	-0.135*	0
<b>Parsorbitalis gyrus</b>	-0.168**	0	-0.183**	0.005	-0.194**	-0.024
<b>Parstriangularis gyrus</b>	-0.133*	0	-0.254**	-0.103*	-0.230**	-0.09
<b>Pericalcarine cortex</b>	-0.125*	0	-0.108*	0.006	-0.047	0.072
<b>Postcentral gyrus</b>	-0.124*	0	-0.251**	-0.103*	-0.195**	-0.057
<b>Posterior cingulate gyrus</b>	-0.099	0	-0.046	0.076	-0.026	0.073
<b>Precentral gyrus</b>	-0.218**	0	-0.308**	-0.062	-0.231**	-0.008
<b>Precuneus cortex</b>	-0.180**	0	-0.155**	0.049	-0.001	0.164**
<b>Rostral anterior cingulate gyrus</b>	0.042	0	-0.05	-0.096*	-0.108	-0.148*
<b>Rostral middle frontal gyrus</b>	-0.185**	0	-0.257**	-0.043	-0.143*	0.058
<b>Superior frontal gyrus</b>	-0.288**	0	-0.287**	0.066	-0.207**	0.095
<b>Superior parietal gyrus</b>	-0.142**	0	-0.137**	0.02	-0.024	0.108
<b>Superior temporal gyrus</b>	-0.365**	0	-0.324**	0.075	-0.296**	0.028
<b>Supramarginal gyrus</b>	-0.222**	0	-0.219**	0.035	-0.105	0.113
<b>Temporal pole</b>	-0.234**	0	-0.191**	0.045	-0.255**	-0.054
<b>Transverse temporal gyrus</b>	-0.131*	0	-0.250**	-0.100*	-0.287**	-0.166**

*CTL* control subjects, *MCI* mild cognitive impairment, *AD* Alzheimer's disease, *CSF*=cerebrospinal fluid.

\* Correlation is significant at the 0.05 level (2-tailed)

\*\* Correlation is significant at the 0.01 level (2-tailed).