

1269 **9. Supplementary information**

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1271 **Table S1:** Associations of locus coeruleus intensity and regional tau burden

Region of interest ¹	<i>rho</i>	<i>p</i>
bankssts	-0.688	0.004
transversetemporal	-0.656	0.007
postcentral	-0.641	0.009
inferiorparietal	-0.641	0.009
inferiortemporal	-0.638	0.009
cuneus	-0.624	0.012
fusiform	-0.609	0.014
parstriangularis	-0.582	0.02
pericalcarine	-0.553	0.029
posteriorcingulate	-0.544	0.032
precuneus	-0.532	0.036
caudalmiddlefrontal	-0.526	0.038
entorhinal	-0.524	0.04
lingual	-0.509	0.046
middletemporal	-0.509	0.046
isthmuscingulate	-0.503	0.049
temporalpole	-0.497	0.052
lateraloccipital	-0.494	0.054
caudalanteriorcingulate	-0.488	0.057
rostralanteriorcingulate	-0.476	0.064
superiorparietal	-0.459	0.076
paracentral	-0.459	0.076
parahippocampal	-0.456	0.078
insula	-0.441	0.089
lateralorbitofrontal	-0.435	0.094
parsorbitalis	-0.418	0.109
frontalpole	-0.409	0.117
parsopercularis	-0.403	0.123
precentral	-0.382	0.145
medialorbitofrontal	-0.376	0.151
superiortemporal	-0.365	0.165
superiorfrontal	-0.312	0.239
rostralmiddlefrontal	-0.282	0.288
supramarginal	-0.232	0.385

1272 *Note:* ¹Parcellation based on Desikan et al., (2006).

1273 Tau data was averaged across hemispheres before analysis (see *Material and methods*).

1274 *Rho* and *p* values are based on non-parametric Spearman's correlations (n = 16).

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1276 **Table S2:** Associations of locus coeruleus intensity and cognitive performance

Cognitive task	<i>rho</i>	<i>p</i>
Craft Story	0.62	0.008
Complex Figure Delay	0.589	0.013
Trails B	0.498	0.042
Number Span Backward	0.459	0.064
SEVLT_total (trial 1-5)	0.447	0.072
CASI	0.286	0.265
SEVLT long delay	0.006	0.981
MoCA	-0.02	0.94
Digit Symbol	-0.16	0.539
CDR	-0.405	0.107

1277 *Note:* *Rho* and *p* values are based on non-parametric Spearman's correlations ($n = 17$). See

1278 *Material and methods* for a description of the cognitive tasks.

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