

## Supplementary Information

Table: Abbreviations of brain structures

Structure	Abbreviation	Full structure name
Isocortex	FRP	Frontal pole, cerebral cortex
	MOs	Secondary motor area
	ACAd	Anterior cingulate area, dorsal part
	ACAv	Anterior cingulate area, ventral part
	PL	Prelimbic area
	ILA	Infralimbic area
	ORBl	Orbital area, lateral part
	ORBm	Orbital area, medial part
	ORBvl	Orbital area, ventrolateral part
	AId	Agranular insular area, dorsal part
	AIV	Agranular insular area, ventral part
	AIp	Agranular insular area, posterior part
	GU	Gustatory areas
	VISC	Visceral area
	SSs	Supplemental somatosensory area
	SSp	Primary somatosensory area
	MOp	Primary motor area
	VIS	Visual areas
	RSP	Retrosplenial area
	AUD	Auditory areas
TEa	Temporal association areas	
ECT	Ectorhinal area	
Olfactory areas	OLF	Olfactory areas
Hippocampal formation	ENT	Entorhinal area
Cortical subplate	CLA	Clastrum
	EP	Endopiriform nucleus
	BLA	Basolateral amygdalar nucleus
Cerebral nuclei	STR	Striatum
	PAL	Pallidum
Thalamus	RT	Reticular nucleus of the thalamus
	AM	Anteromedial nucleus
	IAD	Interanterodorsal nucleus of the thalamus
	IAM	Interanteromedial nucleus of the thalamus
	CL	Central lateral nucleus of the thalamus
	LD	Lateral dorsal nucleus of thalamus
	LP	Lateral posterior nucleus of the thalamus
	AD	Anterodorsal nucleus
RE	Nucleus of reuniens	

	PR	Perireunensis nucleus
	PT	Parataenial nucleus
	PVT	Paraventricular nucleus of the thalamus
	LH	Lateral habenula
	MH	Medial habenula
	VM	Ventral medial nucleus of the thalamus
	PCN	Paracentral nucleus
	VAL	Ventral anterior-lateral complex of the thalamus
	SMT	Submedial nucleus of the thalamus
	RH	Rhomboid nucleus
	MD	Mediodorsal nucleus of thalamus
	IMD	Intermediodorsal nucleus of the thalamus
	CM	Central medial nucleus of the thalamus
	PF	Parafascicular nucleus
	VPMpc	Ventral posteromedial nucleus of the thalamus, parvicellular part
	VPLpc	Ventral posterolateral nucleus of the thalamus, parvicellular part
	VPL	Ventral posterolateral nucleus of the thalamus
	PO	Posterior complex of the thalamus
	VPM	Ventral posteromedial nucleus of the thalamus
Hypothalamus	HY	Hypothalamus
Midbrain	MRN	Midbrain reticular nucleus
	PAG	Periaqueductal gray
	SCm	Superior colliculus, motor related
Hindbrain	P	Pons
	MY	Medulla